

**STATE ENTRANCE EXAMINATION  
UTTAR PRADESH TECHNICAL UNIVERSITY**  
IET Campus, Sitapur Road, Lucknow

**INFORMATION BROCHURE**

(Updated)

**UPSEE – 2015**

**For Admission to**

**First Year in B. Tech / B.Arch. / B.Pharm./  
BHMCT/BFAD/BFA/MBA/MCA/MAM  
And  
2<sup>nd</sup> Year in B. Tech./B.Pharm./MCA (Lateral Entry)**

***Last Date for Submission of Application:* April 04, 2015 (Saturday)**

***Date of Examination:* April 18 (Saturday) & 19 (Sunday), 2015**

**Contact Address:**

Registrar

U.P. Technical University,  
IET Campus, Sitapur Road,

Lucknow – 226 021 (U.P)

Phone: 0522 – 2732193

Fax: 0522 – 2732185

Website: <http://www.uptu.ac.in>, <http://www.upseeuptu2015.in>

## IMPORTANT INSTRUCTIONS

### For Admission to First Year in B. Tech / B.Tech(Agriculture Engg.)/B.Arch. / B.Pharm./ BHMCT/BFAD/BFA/MBA/MCA/MAM and 2<sup>nd</sup> Year (Lateral Entry) in B. Tech/B.Pharm./MCA

1. Candidate may fill application form On-Line through website <http://www.uptu.ac.in> or <http://www.upseeuptu2015.in>. Candidate may also submit application in Off-Line through designated Help Desks (Affiliated Institute of UPTU) for these courses. List of Help Desks (Affiliated Institute of UPTU) is available on the website.
2. This Entrance Examination is open only to the candidates who have passed the qualifying examination from any institution located in U.P. or whose parents are domicile of U.P subject to the eligibility conditions given in this Information Brochure. If the candidate has passed qualifying examination from outside U.P., he/she has to produce domicile certificate of his/her parents (**Father OR Mother only**) at the time of verification of the document.
3. The candidate has the option to submit his/her application for UPSEE-2015 examination **either by On-Line or by Off-Line application form through designated Help Desks (Affiliated Institute of UPTU)**.
- 4.(a) The submission of On-Line application form through website can be made from **25<sup>th</sup> February, 2015 to 04<sup>th</sup> April, 2015**.  
(b) Off-Line application form can be filled from **25<sup>th</sup> February, 2015 to 04<sup>th</sup> April, 2015** (both days inclusive) at designated Help Desks (Affiliated Institute of UPTU) located in various places in Uttar Pradesh.
5. Candidates are advised to read carefully this information brochure, check their eligibility and applicable reservation category etc. before filling and submitting the application.  
(a) For filling Off-Line application form through designated Help Desks (Affiliated Institute of UPTU), refer section 17 and 20 of this brochure.  
(b) For submission of the On-Line application form refer section 18 and 20 of the brochure.
- 6.(a) Candidate applying through Off-Line mode (through Help Desk) are required to send "Confirmation Page" provided by Help Desk and bank challan (if applicable). Candidate should not attach any other enclosure with it while sending the "Confirmation Page" through Registered / Speed post.  
(b) Candidate applying through On-Line mode are also required to send "Confirmation page" alongwith bank challan (if applicable) and should not attach any enclosure with it.
7. The Uttar Pradesh Technical University (UPTU), Lucknow will not be responsible for any delay in receiving the "Confirmation Page", which may be either on the part of the Post office or for any other reason whatsoever.
8. However, State Govt. has permitted 20% of the total sanctioned seats available in private institutions to be filled on the basis of JEE (Main)-2015 merit for admissions to Technology / Architecture course; out of which 10% seats will be filled by U.P. domicile candidates on U.P. State merit using U.P. reservation policy and the remaining 10% seats will be filled by All India Merit candidates without reservation subject to eligibility conditions given in the brochure.
9. There is no age limit for admission to the courses covered in UPSEE-2015.
10. Accepting admission in any institution implies acceptance by the candidate and his/her parents or guardians agree with all the provisions given in the Brochure. Any change in the rules, regulations, fee and special conditions etc. of that institution shall mutandis apply to the admitted candidate.
11. Candidates submitting application form using any mode whether On-Line mode or Off-Line (through Help Desk) mode are required to affix latest clear color photograph (same as provided with application form) and put left hand thumb impression as well as signature on the space provided on the "Confirmation Page" and verify the information given by putting legible signature.
12. Candidates claiming advantage of reserved categories, subcategories, rural weightage etc. are required to indicate the same in the application form but **not to enclose any supporting certificates with "Confirmation page"**. These certificates in original will have to be produced at the time of counseling / Document Verification alongwith one self attested copy of each one of them. The proforma of the certificates are given at the end of this information brochure at **Appendix-D**, which are subject to change even upto the starting date of counselling as per the orders of Govt. of Uttar Pradesh. **Note that the certificate no. 2 for OBC candidates will be entertained only if it is issued on or after 01.04.2015 (mandatory due to condition of creamy layer for OBC)**.
13. Candidates who are due to appear for the qualifying examination or have appeared, but results are awaited, are also eligible to appear in the UPSEE-2015. However, the candidates in respect of whom, the result of the qualifying examination has not been declared till the date of the counselling due to any reason whatsoever, shall not be eligible for admission under any circumstances.
14. The result of UPSEE-2015 declared by Uttar Pradesh Technical University, Lucknow shall be final. However, the candidate can get his/her answer sheets scrutinized on payment of Rs. 5000/- per paper within seven days of declaration of result. The application for scrutiny may be submitted to the Registrar, UPSEE-2015, Uttar Pradesh Technical University, Lucknow (U.P.) 226021 in writing.

15. If any document/declaration submitted by the candidate is found to be false at any stage, his/her admission shall be cancelled and he/she may be liable for prosecution under the law. In case of any legal dispute, the jurisdiction will be limited to Lucknow courts only.
16. The candidate must himself/ herself ensure about his/her eligibility to appear in the Entrance Examination. If a candidate, who is not eligible to appear in the examination, does so; he/ she will not have any claim whatsoever, for admission to any course through UPSEE-2015.
17. The Entrance Examination Fee for UPSEE-2015 is **Rs. 800/- for Male candidates of General & OBC category and Rs. 400/- for Female candidates of all categories and SC/ST candidates.**
18. The number of Colleges / Institutions, courses and seats may increase or decrease upto the counselling dates.
19. If any of the qualifying examination Board awards only letter grades without providing an equivalent percentage of mark on the grade sheet, the candidate should obtain a certificate from the board specifying equivalent marks and submit it at the time of counselling. In case, such a certificate is not provided by the candidate, the decision of the Central Admission Board (**CAB**) regarding his / her eligibility shall be final.
20. The allotment of seat through counselling will be carried out strictly in accordance with the UPSEE-2015 merit of the candidate, subject to the order of preference given for the seats and availability of seat in the category. **Once the seat is allotted to the candidate, no change in the Institution / Branch is admissible.**
21. **The fee paid at the time of counselling by the candidate after the allotment of seat will be forfeited** and will not be refunded under any circumstances, if the candidate does not report for the admission to the allotted institutions.
22. **No tuition fee shall be charged from eligible SC/ST candidates** by the institutions affiliated to UPTU, Lucknow at the time of granting admission as per U.P. Govt. order no. 37 Bha.Saa./26-03-04-4(77)/02 dated:18-06-04. A relaxation in the **tuition fee amount equal to tuition fee of Government Institutions** has been granted to OBC / General Category economically weaker students by the Govt. vide order no. 4136/solah-1-2008-135/2008 dated: 8-10-08 and 2991/solah-1-2008-14(34)/2008 dated: 16-09-08. The candidate will have to produce the required prescribed certificate / documents in the institution as enforced vide G.O. no. 6048/solah-1-2008-1(17)/2008 dated 06-01-08. Govt. orders released time to time shall be applicable. The institutions will charge tuition fee after granting this relaxation to the eligible candidates as per the current fee structure determined by the fee determination committee available at website [www.afrcup.in](http://www.afrcup.in).
23. This information Brochure is both in English and Hindi languages, in case of any discrepancy the **English version shall be final** for all purposes.
24. All information in connection with UPSEE-2015 shall be made through university website <http://www.uptu.ac.in> or <http://www.upseeuptu2015.in>. The candidates are advised to refer to this website regularly/frequently failing which UPTU will not be responsible for any loss due to the lack of communication.
25. **In case of both On-Line Application as well as Off-Line (through Help Desk) Application), the Confirmation page** alongwith copy of bank challan, if applicable, complete in all respect, should be sent to the  
**Registrar, UPSEE-2015,  
Uttar Pradesh Technical University,  
I.E.T. Campus, Sitapur Road,  
Lucknow-226021 (U.P.)**  
**so as to reach, on or before 09<sup>th</sup> April, 2015.**

In case of any deficiency in application form, it is likely to be rejected and sole responsibility of its consequences will lie on the candidate and representation in this regard shall not be entertained.

26. Abbreviations used:

<b>UPTU</b>	- Uttar Pradesh Technical University, Lucknow
<b>UPSEE-2015</b>	- Uttar Pradesh State Entrance Examination - 2015
<b>B. Tech.</b>	- Bachelor of Technology
<b>B. Pharm.</b>	- Bachelor of Pharmacy
<b>B. Arch.</b>	- Bachelor of Architecture
<b>BHMCT</b>	- Bachelor of Hotel Management & Catering Technology
<b>BFAD</b>	- Bachelor of Fashion & Apparel Design
<b>BFA</b>	- Bachelor of Fine Arts
<b>MBA</b>	- Master of Business Administration
<b>MCA</b>	- Master of Computer Application
<b>MAM (Dual Degree)</b>	- Master of Applied Management (Dual Degree)

**Note: UPSEE-2015 is being conducted for all technical institutions / colleges affiliated under the area of jurisdiction of both UPTU, Lucknow and some U.P. State Universities.**

## महत्वपूर्ण निर्देश

बी0टेक0 / बी0टेक0(बायो0टेक0) / बी0टेक0(एग्री0इंजी0) / बी0फार्म0 / बी0आर्क0 / बी0एच0एम0सी0टी0 / बी0एफ0ए0 डी0 / बी0एफ0ए0 / एम0बी0ए0 / एम0सी0ए0 / एम0ए0एम0 के प्रथम वर्ष एवं बी0टेक0 / बी0फार्म0 / एम0सी0ए0 के द्वितीय वर्ष में प्रवेश हेतु

1. प्रवेश हेतु इच्छुक सभी अभ्यर्थी आन लाइन आवेदन वेबसाइट <http://www.uptu.ac.in> or <http://www.upseeuptu2015.in> के माध्यम से अथवा ऑफ लाइन आवेदन विश्वविद्यालय द्वारा निर्धारित हेल्प डेस्क (उ0प्र0 प्राविधिक विश्वविद्यालय की संबद्ध संस्थाओं) के माध्यम से आवेदन कर सकते हैं। हेल्प डेस्क के विस्तृत विवरण हेतु विश्वविद्यालय की वेबसाइट <http://www.uptu.ac.in> or <http://www.upseeuptu2015.in> पर सम्पर्क करें।
2. राज्य प्रवेश परीक्षा के माध्यम से प्रवेश मात्र उत्तर प्रदेश के मूल/स्थायी निवासियों के लिए ही खुला है। उत्तर प्रदेश में स्थित किसी भी संस्थान से अर्हकारी परीक्षा उत्तीर्ण करने वाले अभ्यर्थी अथवा ऐसे अभ्यर्थी जिन्होंने अर्हकारी परीक्षा उत्तर प्रदेश के बाहर के किसी संस्थान से पास की है परन्तु उनके पिता अथवा माता उ0प्र0 के मूल/स्थायी निवासी हैं, इस परीक्षा में सम्मिलित होने के पात्र है।
3. अभ्यर्थी के पास यूपीएसईई-2015 हेतु आवेदन करने के लिए **ON-Line** अथवा विश्वविद्यालय द्वारा निर्धारित हेल्प डेस्क (उ0प्र0 प्राविधिक विश्वविद्यालय की संबद्ध संस्थाओं) के माध्यम से **OFF-Line** आवेदन के विकल्प उपलब्ध है।
4. (a) आन लाइन आवेदन वेबसाइट के माध्यम से दिनांक 25 फरवरी, 2015 से 25 मार्च 2015 तक भरे जा सकते हैं।  
(b) आफ लाइन आवेदन हेल्पडेस्क (उत्तर प्रदेश प्राविधिक विश्वविद्यालय से सम्बद्ध संस्थान) वेबसाइट के माध्यम से दिनांक 25 फरवरी, 2015 से 25 मार्च 2015 तक भरे जा सकते हैं।
5. अभ्यर्थियों के लिए सलाह है कि आवेदन पत्र भेजने/आन लाइन आवेदन करने से पूर्व चेक लिस्ट के सभी बिन्दुओं से भली भांति अवगत हो लें।  
(a) आफ लाइन आवेदन पत्र भरने हेतु कृपया ब्रोशर का बिन्दु संख्या-17 एवं 20 का संदर्भ लें।  
(b) आन लाइन आवेदन करने हेतु कृपया ब्रोशर के बिन्दु संख्या-18 एवं 20 का संदर्भ लें।
6. (a) आफ लाइन आवेदन पत्र भरने वाले अभ्यर्थी हेल्पडेस्क से प्राप्त कन्फर्मेशन पेज स्पीड पोस्ट/रजिस्टर्ड पोस्ट भेजें तथा बैंक चालान (यदि लागू हो) के अतिरिक्त कोई भी संलग्नक नत्थी न करें।  
(b) आन लाइन फार्म भरने वाले अभ्यर्थी कन्फर्मेशन पेज के साथ बैंक चालान (यदि लागू हो) के अतिरिक्त किसी अन्य प्रपत्र को संलग्न न करें।
7. उत्तर प्रदेश प्राविधिक विश्वविद्यालय, लखनऊ किसी भी कारण से डाक अथवा किसी भी अन्य प्रकार के विलम्ब में छात्र के आफ लाइन/आन लाइन द्वारा प्राप्त होने वाले आवेदन (कन्फर्मेशन पेज बैंक चालान सहित) में हुए विलम्ब के प्रति उत्तरदायी नहीं होगा।
8. यद्यपि टेक्नोलॉजी/बी0आर्क0 पाठ्यक्रम में प्रवेश हेतु राज्य सरकार ने निजी संस्थाओं में उपलब्ध कुल स्वीकृत क्षमता के 20 प्रतिशत सीटों पर जे.ई.ई.मेन-2015 की मेरिट के आधार पर भरे जाने की स्वीकृति प्रदान की गई है जिनमें से 10 प्रतिशत सीटें उ0प्र0 के अधिवासी अभ्यर्थियों को स्टेट मेरिट पर उ0प्र0 आरक्षण पालिसी के अंतर्गत एवं शेष 10 प्रतिशत सीटें आल इण्डिया मेरिट के अभ्यर्थियों द्वारा बिना आरक्षण के विवरण पुस्तिका में उल्लिखित पात्रता शर्तों के अंतर्गत भरी जायेंगी।
9. UPSEE-2015 से आच्छादित पाठ्यक्रमों में आयु की सीमा निर्धारित नहीं है।
10. किसी भी संस्थान में प्रवेश से यह उपलक्षित है कि अभ्यर्थी व उसके पिता/अभिभावक विवरण पुस्तिका एवं उस संस्थान के प्रास्पेक्टस में दिये गये सभी नियमों व प्रावधानों को स्वीकार करते हैं। सभी अभ्यर्थियों पर उस संस्थान के नियम/निर्देश, फीस, विशेष शर्तें आदि में परिवर्तन (यदि कोई हो) स्वमेव लागू होंगे।
11. अभ्यर्थी से अपेक्षित है कि वह अपने कन्फर्मेशन पेज पर निर्धारित स्थान पर नवीनतम रंगीन स्पष्ट फोटो चिपकायेंगे तथा दिये गये स्थान पर बाएं हाथ के अंगूठे का निशान एवं हस्ताक्षर अंकित करेंगे, साथ ही आवेदन पत्र में दी गयी सूचना की पुष्टि हेतु निर्दिष्ट स्थान पर साफ एवं पठनीय हस्ताक्षर करेंगे।
12. जो अभ्यर्थी किसी आरक्षित श्रेणी, उप-श्रेणी, ग्रामीण अधिमान आदि का लाभ लेना चाहते हैं, उन्हें विवरण पुस्तिका के परिशिष्ट 'डी' में दिये प्रमाण पत्र मूल रूप में तथा एक अभि-प्रमाणित प्रतिलिपि के साथ परामर्श साक्षात्कार (काउन्सिलिंग) के समय ही प्रस्तुत करना होगा। उन्हें कन्फर्मेशन पेज के साथ कोई भी प्रमाण पत्र संलग्न नहीं करना है। प्रमाण पत्रों के प्रारूप उत्तर प्रदेश शासन के निर्णयों के अधीन हैं। कृपया नोट करें कि अन्य पिछड़ा वर्ग में क्रीमीलेयर के अंतर्गत आने वाले अभ्यर्थियों को आरक्षण का लाभ अनुमन्य नहीं है। अतः प्रमाण पत्र संख्या 2 दिनांक 01.04.2015 या उसके बाद जारी होना चाहिये अन्यथा अमान्य कर दिया जायेगा। (अति महत्वपूर्ण)
13. वे अभ्यर्थी जिनकी अर्हकारी परीक्षा का परीक्षाफल किसी भी कारण से परामर्श साक्षात्कार (काउन्सिलिंग) तिथि तक घोषित नहीं हुआ है किसी भी स्थिति में प्रवेश पाने के अधिकारी नहीं होंगे। वे अभ्यर्थी जो अर्हकारी परीक्षा में सम्मिलित हो रहे हैं या अंतिम परीक्षा परीणाम के लिए प्रतीक्षारत है वे राज्य प्रवेश परीक्षा-2015 में सम्मिलित हो सकते हैं।

14. उत्तर प्रदेश प्राविधिक विश्वविद्यालय, लखनऊ द्वारा घोषित परीक्षा, **UPSEE-2015** का परीक्षा परिणाम अंतिम होगा। इच्छुक अभ्यर्थी अपनी उत्तर पुस्तिकाओं का परिनिरीक्षण रु. **5000=00** प्रति प्रश्न पत्र की दर से भुगतान देकर परिणाम घोषणा के 7 दिन के अंदर करा सकते हैं।
  15. अभ्यर्थी द्वारा प्रस्तुत किया गया कोई भी अभिलेख/घोषणा-पत्र किसी भी स्तर पर फर्जी/गलत पाये जाने पर उसका प्रवेश निरस्त कर दिया जायेगा एवं उस पर कानूनी कार्यवाही की जायेगी। किसी भी विवाद की स्थिति में न्यायालय परिक्षेत्र लखनऊ तक सीमित रहेगा।
  16. वे अभ्यर्थी जो परीक्षा में बैठने के लिए अर्ह नहीं हैं, फिर भी सम्मिलित हैं, वे किसी प्रकार के प्रवेश के दावेदार नहीं होंगे। अतः अभ्यर्थी प्रवेश परीक्षा में बैठने के लिये पात्रता की शर्तों को पहले से ही आश्वस्त हो लें।
  17. **UPSEE-2015** के परीक्षा शुल्क प्रत्येक पाठ्यक्रमों/प्रवेश के लिए रु. **800.00** सामान्य व अन्य पिछड़ा वर्ग के लिये एवं रु. **400.00** अनुसूचित जाति/अनुसूचित जनजाति श्रेणी एवं सभी वर्ग की महिला अभ्यर्थियों के लिए निर्धारित की गई है।
  18. कालेज/संस्थान में पाठ्यक्रम एवं सीटों की संख्या परामर्श-साक्षात्कार तक घट-बढ़ सकती है।
  19. यदि कोई बोर्ड/विश्वविद्यालय अंक पत्र पर समतुल्य प्रतिशत अंक न देकर केवल ग्रेड देता है तब अभ्यर्थी को चाहिए कि वह बोर्ड/विश्वविद्यालय से समतुल्य अंक प्रमाण पत्र लेकर काउन्सिलिंग के समय जमा करे। यदि अभ्यर्थी ऐसा प्रमाण पत्र प्रस्तुत नहीं करता है तब उसकी पात्रता के बारे में केन्द्रीय प्रवेश समिति द्वारा लिया गया निर्णय अन्तिम होगा।
  20. काउन्सिलिंग द्वारा सीटों का आवंटन अभ्यर्थी की मेरिट, उसके द्वारा सीटों के चयन पर लिया गया अन्तिम वरीयता निर्णय तथा रिक्त सीटों की संख्या के आधार पर किया जायेगा। एक बार किसी भी अभ्यर्थी को सीट आवंटित हो जाने पर ब्रान्च या संस्था किसी में भी कोई परिवर्तन संभव नहीं होगा।
  21. सीट आवंटित हो जाने के पश्चात् यदि अभ्यर्थी आवंटित सीट पर प्रवेश नहीं लेता है तो अभ्यर्थी द्वारा काउन्सिलिंग के समय जमा की गयी फीस की अग्रिम धनराशि जब्त कर ली जायेगी तथा किसी भी दशा में जमा धनराशि वापस नहीं की जायेगी।
  22. अंग्रेजी अंश देखें।
  23. यह विवरण पुस्तिका अंग्रेजी व हिन्दी दोनों भाषाओं में है किसी भी भ्रम की दशा में अंग्रेजी अंश को ही अंतिम माना जायेगा।
  24. **UPSEE-2015** के संबंध में समस्त सूचनाएं विश्वविद्यालय की वेबसाइट जो कि <http://www.uptu.ac.in> or <http://www.upseeuptu2015.in> के माध्यम से निर्गत की जायेंगी। अभ्यर्थियों से अनुरोध है कि इन वेबसाइट को नियमित रूप से देखें क्योंकि किसी भी प्रकार से सूचना के अभाव में अभ्यर्थियों को होने वाले नुकसान के लिए उत्तर प्रदेश प्राविधिक विश्वविद्यालय, लखनऊ उत्तरदायी नहीं होगा।
  25. **कन्फर्मेशन पेज बैंक चालान सहित** (यदि लागू हो) पूर्णतया भरा हुआ दिनांक **25 मार्च, 2015** तक **कुलसचिव UPSEE-2015 उत्तर प्रदेश प्राविधिक विश्वविद्यालय, आई0ई0टी0 कैम्पस, सीतापुर रोड, लखनऊ – 226021** के कार्यालय में पहुँच जाना चाहिए। आवेदन पत्र में किसी प्रकार की कमी अथवा त्रुटि की स्थिति में अभ्यर्थन निरस्त माना जायेगा जिसका पूर्ण उत्तरदायित्व संबंधित छात्र का होगा और इस संदर्भ में किसी प्रकार का प्रत्यावेदन विचारणीय न होगा।
  26. अंग्रेजी अंश देखें।
- नोट- यह परीक्षा संयुक्त रूप से उत्तर प्रदेश प्राविधिक विश्वविद्यालय, लखनऊ से सम्बद्ध या उनके कार्य क्षेत्र के अंतर्गत आने वाले कालेजों एवं विवरण पुस्तिका में इंगित कतिपय अंश राज्य विश्वविद्यालयों के लिए आयोजित की जा रही है।

## **U P STATE ENTRANCE EXAMINATION (UPSEE – 2015)**

**For Admission to First Year in B. Tech / B.Tech(Agriculture Engg.)/B.Arch. / B.Pharm./ BHMCT/BFAD/BFA/MBA/MCA/MAM and 2<sup>nd</sup> Year (Lateral Entry) in B. Tech/B.Pharm./MCA**

### **1. CENTRAL ADMISSION BOARD (CAB)**

The entrance examination for degree level engineering institutions and other professional colleges has been assigned to Uttar Pradesh Technical University, Lucknow vide Govt. order no. 560/solah-1-2015-14(54)/2012 dated 13-02-2015. The Govt. of Uttar Pradesh, Technical Education Department, has consented for the constitution of Central Admission Board (CAB) under the Chairmanship of the Vice Chancellor, Uttar Pradesh Technical University, Lucknow to supervise and control the State Entrance Examination herein after referred as UPSEE-2015 being conducted by Uttar Pradesh Technical University, Lucknow. The CAB has absolute rights for conducting of UPSEE-2015, and to decide about modalities of admissions and allotment of seats. The jurisdiction of CAB extends to colleges / institutes affiliated to UPTU, Lucknow. The CAB is authorised to take every decision regarding conduct and admissions through UPSEE-2015.

### **2. MODE OF ADMISSION**

#### **2.1 ADMISSION TO FIRST YEAR**

The Entrance Examination for admission to first year of the following courses offered at the Institutions affiliated to UPTU, Lucknow including other mentioned universities situated in territory of Uttar Pradesh for the academic year 2015-2016 shall be conducted by Uttar Pradesh Technical University, Lucknow.

- |   |                                    |
|---|------------------------------------|
| (i) 4 years B. Tech./B.Tech. (Ag. Engg.) Course | (vi) 4 years BFA Courses           |
| (ii) 4 years B.Pharm. Course                    | (vii) 3 years MCA Course           |
| (iii) 5 years B.Arch. Course                    | (viii) 2 years MBA Course          |
| (iv) 4 years BHMCT Course                       | (ix) 5 years integrated MAM Course |
| (v) 4 years BFAD Course                         |                                    |

#### **2.2 DIRECT ADMISSION (LATERAL ENTRY) TO SECOND YEAR OF B.TECH./ B.PHARM./MCA**

- (i)<sup>1</sup> The eligible candidates (Refer clause 3.3) seeking direct admission to second year of B.Tech. (for engineering diploma holders and B.Sc. graduates) or B.Pharm. (only for pharmacy diploma holders) or MCA (for BCA, B.Sc (IT/ Computer Science) degree holders) in institutions affiliated to UPTU, Lucknow are required to submit the application forms by the last date. Such candidates are also required to appear in the specified paper of entrance examination.
- (ii)<sup>2</sup> Such seats are limited to a maximum of 20% in addition to the sanctioned intake in institutions/ colleges for different courses at first year level. However for B.Tech./B.Pharm., students belonging to B.Sc. stream shall be considered only after filling the seats in this category with students of Diploma stream.
- (iii) Direct admission to second year shall not be made in B.Arch./BHMCT/BFAD/BFA Courses.

#### **2.3 SEATS UNDER DIFFERENT SCHEME IN FIRST YEAR**

- (i) Number of admissions in all courses offered at Institutions affiliated to UPTU, Lucknow, will be only through UPSEE-2015, after deducting the seats filled under clause 2.4.

<sup>1</sup> As per AICTE Notifications F-11-140/2004-NRO/AICTE-33 dated 9-06-2004 & F.37-3/Legal/2007 dated 12.01.07 and U.P.Govt. Order no. 256 / Solah – 1 – 2007 – 1(01) / 2005 dated 14.02.07.

<sup>2</sup> Subject to change as per latest orders of Govt. of U.P. / UPTU upto the date of counselling.

- (ii) State Govt. has permitted 15%<sup>£</sup> of total sanctioned seats available in Private Institutions to be filled by the NRI candidates under Management quota; and the same shall be filled up in accordance with the procedure prescribed in the Govt. orders. The remaining seats in various courses offered at all the Institutions affiliated to UPTU, Lucknow will be filled through UPSEE-2015 counselling.
- (iii) State Govt. has also permitted 20% of total sanctioned seats available in all affiliated Private Institutions only to be filled by JEE (Main)-2015 merit for admission to Technology/Architecture courses; out of which 10% seats will be filled through U.P. domicile candidates on U.P. State merit using state reservation policy, and the remaining of 10% seats will be filled through All India merit candidates without reservation.
- (iv) Thus, 65% of the seats available in B.Tech./B.Arch. and 85% seats in the remaining courses at all Private Institutions will be filled by the UPSEE-2015 qualified candidates, who have passed the qualifying examination from any institution located in U.P. or whose parents are domicile of U.P subject to the eligibility conditions given in this information brochure. If the candidate has passed qualifying examination from outside of U.P., he/she has to produce domicile certificate of his/her parents (**Father OR Mother only**) at the time of verification of document.

#### **2.4 ADMISSION TO NON-RESIDENT INDIAN (NRI) CANDIDATES IN FIRST YEAR**

NRI candidates, who possess prescribed qualifications (clause 3.4), may get direct admission on 5% seats of total intake in Govt. aided and Private Institutions having approval from AICTE for NRI seats on merit, subject to the latest instructions of Govt. of U.P. The detailed information will be published in the month of May 2015 in various newspapers and university website. The candidates, seeking for admission under this scheme, need not appear in UPSEE-2015. However applicants opting B.Arch. course under this category has to appear in an Aptitude Test on the day of counseling to be notified later.

#### **2.5 ADMISSION TO KASHMIRI MIGRANTS IN FIRST YEAR**

Direct admission to Kashmiri Migrants in first year in each institute is to be made as per the latest instructions of AICTE and orders from U.P. Govt. Such admissions will be over and above the sanctioned intake and normally limited upto one admission per Institute affiliated to UPTU, Lucknow . The detailed information will be published in the month of May 2015 in various newspapers and University website. The candidates, opting for admission under this scheme, need not appear in UPSEE-2015.

#### **2.6 ADMISSION TO FOREIGN NATIONALS (FN) / PERSONS OF INDIAN ORIGIN (PIO) / CHILDREN OF INDIAN WORKERS IN GULF COUNTRIES (CIWGC)**

Under the approval of AICTE, identified institutions shall admit FN/PIO/CIWGC up to the extent sanctioned by AICTE as per the eligibility criteria (clause 3.5) and guidelines of the University. These supernumerary seats shall be exclusively meant for the FN/PIO/CIWGC students in undergraduate courses with the condition that under no circumstances a seat remained unfilled shall be allocated to candidates other than a FN/PIO/CIWGC. The candidates, opting for admission under this scheme, need not appear in UPSEE-2015.

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<sup>£</sup> It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling.

#### **2.7 ADMISSION TO FEE WAIVER SEATS FOR ECONOMICALLY WEAKER MERITORIOUS STUDENTS**

As per AICTE notification fee waiver seats for economically weaker meritorious candidates are also available in B.Tech/ B.Arch/ B.Pharm/B.HMCT/B.FAD/BFA courses in all institutions affiliated to UPTU, Lucknow. No tuition fee will be charged from the such candidates admitted against such seats. The fee

waiver seats will be limited to maximum of 5% of the approved intake in the course, and will be over and above of the sanctioned intake. **The economically weaker students must submit certificate no. 12 (Income Certificate) at the time of verification of documents.**

### 3. ELIGIBILITY CRITERIA

The candidates must fulfill the eligibility criteria as given in clause 3.1/3.2/3.3 to appear in UPSEE-2015. However, the candidates appearing in the qualifying examinations are also eligible to appear, subject to the condition that they must fulfill the eligibility criteria as given in clause 3.1/3.2/3.3 at the time of counselling.

#### 3.1 ELIGIBILITY TO APPEAR IN UPSEE-2015 FOR ADMISSION TO FIRST YEAR OF B.TECH. / B.PHARM. / B.ARCH. / BHMCT / BFAD / BFA

- (i) The subject combination required in the **qualifying examination** (intermediate examination of U.P. Board or 10+2 level examination or its equivalent) for admission to first year of different courses shall be as follows:-

Course	Compulsory Subjects	Anyone of the following Subjects
B. Tech.	Physics & Mathematics	Chemistry/ Bio-Technology / Biology / Technical Vocational subject
B. Tech.(Bio-Technology)	(i) Physics & (ii) Mathematics OR Biology	Chemistry/ Bio-Technology / Technical Vocational subject
B. Pharm.	Physics & Chemistry	Mathematics/ Bio-Technology/ Biology / Technical Vocational Subject
B. Arch.	Mathematics & Physics	Chemistry/ Computer Science/ Biology/ Engineering Drawing / Technical Vocational subject
B.Tech. (Agriculture Engg.)	Agriculture discipline. *	
BHMCT / BFAD/BFA	Any discipline.	

- (ii) For admission to first year of B.Tech./ B.Pharm., candidate must have clearly passed intermediate examination of U. P. Board or 10+2 level examination or its equivalent from any recognized Board / University and securing minimum 45% marks (40% marks for SC/ST Category candidates) without grace in required each compulsory subjects and one optional subject taken together as given in clause 3.1 (i).
- (iii) For admission to first year of BHMCT/BFAD/BFA, candidate must have clearly passed intermediate examination of U. P. Board or 10+2 level examination or its equivalent from any recognized Board / University and securing minimum 45% marks without grace (40% marks for SC/ST category candidates) in aggregate.
- (iv) For admission to first year of B. Arch., a candidate must have clearly passed intermediate examination of U. P. Board or 10 + 2 level examination or its equivalent from any recognized Board / University and securing (i) minimum 50% marks in aggregate and (ii) clearly passed without grace, each compulsory and optional subjects as given in clause 3.1(i).

A candidate possessing three years Diploma in Architecture (10+3) recognized by Central / State Govt., is also eligible for admission to first year of B. Arch. only, provided the candidate has passed the Diploma examination securing minimum 50% marks in aggregate without grace. Such candidates will have to appear in the entrance examination for first year of B. Arch. Paper 4 (clause 4.3).

- (v) **All candidates who are eligible for admission in B.Tech. Courses are also eligible for B.Tech. Agriculture Engineering.**

#### 3.2 ELIGIBILITY TO APPEAR IN UPSEE-2015 FOR ADMISSION TO FIRST YEAR OF MBA/ MCA/MAM

- (i) For admission to first year of MBA in any institution affiliated to UPTU, Lucknow, a candidate must have passed Bachelors degree course of three years minimum duration from any recognized Indian University; or its equivalent, recognized by A.I.U securing minimum 50% (45% for SC/ST) marks in aggregate.
- (ii) For admission to first year of MCA in any institution affiliated to UPTU, Lucknow, a candidate must have passed Bachelors degree course of three years minimum duration from any recognized Indian University;



or its equivalent, recognized by A.I.U. securing minimum 50% (45% for SC/ST) marks in aggregate. Candidate must have passed Mathematics at 10+2 level or Graduation level.

- (iii) For admission to first year of MBA/MCA in other Universities of U.P., a candidate must have passed Bachelor degree course with the eligibility conditions given in following table:

Sl. No.	Name of University/ Institutions	Course(s)	Minimum pass marks at 03 years Graduation level	Remarks/ Compulsory conditions
1	C.S.J.M. Kanpur University, Kanpur	MBA MBA-Finance & Control (M3) MBA-Business Economic(M2) MBA-Tourism Management(M4)	As per AICTE norms.	
		MCA	As per AICTE norms.	Maths at 10+2 level.
2	Dr. R. M. L. Avadh University, Faizabad	MBA	Graduate with 50% marks	
		MCA	Graduate	Maths at 10+2 or Graduation level.
3	M.G. Kashi Vidyapith University, Varanasi	MBA	Graduate	
		MCA	Graduate with 45% marks	Maths at 10+2 level.
4	V.B.S. Purvanchal University, Jaunpur	MBA (M1) MBA Agri. Business (M17) MBA E-Commerce (M21) MBA Business Economics (M2) MBA Finance & Control (M3) MBA Human Research & Development (M22)	As per UPSEE norms.	
		MCA	As per UPSEE norms.	Maths at 10+2 or Graduation level
5	M.J.P. Rohilkhand University, Bareilly	MBA (General) (M1) MBA (Marketing) (M20)	Graduation 50% as per UPSEE norms	5% relaxation for SC/ST
		MCA	As per UPSEE norms	Maths at 10+2 or Graduation level.
6	D.D.U. Gorakhpur University, Gorakhpur	MBA	Minimum 40% marks at Graduation level	
7	Institute of Business Studies, Ch. Charan Singh University, Meerut	MBA	Graduate in any discipline	
	Sir Chhotu Ram Institute of Engineering & Technology, Ch. Charan Singh Campus, Meerut	MBA (M1) MBA-IB (M5)	Graduate	
		MCA	Graduate	Maths at 10+2 or Graduation level.
8	Dr. B.R. Ambedkar University, Agra	MBA	As per AICTE norms	
		MCA	As per AICTE norms	
9	Bundelkhand University, Jhansi	MBA MBA (Internation Business)(M5) MBA (Finance Management)(M6) MBA (Tourism Management)(M4)	50%	<b>(Graduation with 45% for MBA Tourism Management only)</b>
		MCA	50% in B.Sc.(Maths/Stats)/BCA/ B.Sc.IT /B.Sc.(CS)/B.Sc.(IT).Maths at 10+2 level is compulsory	
10	Uttar Pradesh Vikalang Uddhar Dr. Shakuntala Misra Vishwavidyalaya, Lucknow	MBA	Graduate	

- (iv) For Admission to first year of **MAM Course (Dual degree)**, a candidate must have passed Intermediate examination of U.P. Board or 10+2 level examination or its equivalent from any recognized Board/

University and securing minimum 45% marks without grace (40% marks for SC/ST category candidates) in aggregate.

### **3.3 ELIGIBILITY TO APPEAR IN UPSEE-2015 FOR ADMISSION TO SECOND YEAR (LATERAL ENTRY) OF B. TECH. / B. PHARM./MCA**

- (i) Direct Admission (Lateral Entry) in second year of B.Arch./BHMCT/BFAD/BFA/MBA courses is not permissible.
- (ii) Lateral entry in "B.Tech. for Engg. Diploma holders or B.Sc. Graduates with Mathematics as one of the subject at XII standard"/ "B.Pharm. for Diploma holders" in third semester (second year)/"MCA for Graduates of BCA or B.Sc.-Information Technology/Computer Science in third semester (second year)", is open only in the institutions affiliated to UPTU, Lucknow.
- (iii) Candidates who have passed 'three years Engg. Diploma from an Institution located in U.P. with minimum 45% marks (40% for SC/ST) OR 'whose parents (Father or mother) are domicile of Uttar Pradesh' and he/she has passed three years Engg. Diploma with minimum 45% marks (40% for SC/ST) recognized by the Board of Technical Education, U.P., in any branch of Engineering (except Agriculture Engg., Pharmacy and Architecture), are eligible for admission to Second year in any branch of Engineering / Technology.
- (iv) Candidates who have passed 'three years Diploma in Agriculture Engg. from an Institution located in U.P. with minimum 45% marks(40% for SC/ST)' OR 'whose parents (Father or mother) are domicile of U.P.' and he/she has passed three years Diploma in Agriculture Engg. with minimum 45% marks(40% for SC/ST) recognized by the Board of Technical Education, U.P., are eligible for admission to Second year of Agriculture Engg. Branch only.
- (v) Candidates who have passed 'three years B.Sc. degree and passed XII standard with mathematics as one of the subject' from any recognized University; securing minimum 45% marks (40% for SC/ST) in aggregate, are also eligible for admission to second year in any branch of Engineering/ Technology.
- (vi) Candidates who have passed 2/3 years Diploma in Pharmacy from an Institution located in U.P. with minimum 45% marks (40% for SC/ST)' OR 'whose parents are domicile of U.P.' and he/she has passed 2/3 years Diploma in Pharmacy with minimum 45% marks (40% for SC/ST) recognized by the Board of Technical Education, U.P., are eligible for admission to second year of B.Pharm. only.
- (vii) For Admission to **2<sup>nd</sup> year of MCA course (Lateral Entry)**, in any institution affiliated to UPTU, Lucknow, a candidate must have passed Bachelors degree course of minimum three years duration in BCA, B.Sc (IT/ Computer Science) from any recognized Indian University; or its equivalent, recognized by A.I.U. securing minimum 50% (45% for SC/ST) marks in aggregate. The candidate must have passed Mathematics at 10+2 level or Graduation level.

### **3.4 ELIGIBILITY FOR ADMISSION TO NRI QUOTA IN FIRST YEAR**

NRI candidates who possess minimum requisite qualification may get direct admission on 5% seats of total intake in State Funded and Private Institutions of Uttar Pradesh in all courses except MBA/MCA/MAM. However, applicants opting B.Arch. course under this category has to appear in Aptitude Test on the day of counseling to be notified later. The University shall fill the seats of NRI quota (5%) seats in the following manner:

- (i) NRI quota seats shall be filled from NRI's, who
  - (a) have passed the qualifying examination with Physics, Chemistry and Mathematics from an Institution situated outside India, which is considered equivalent to (10+2) examination by the Association of Indian Universities.

OR

- have passed High School Certificate Education (GCE) examination with Physics, Chemistry and Higher Mathematics (A) from London / Cambridge / Sri Lanka.
  - (b) have appeared in SAT II examination with Mathematics level II C, Physics and Chemistry.

Their relative merit will be decided on their SAT-II score.

- (ii) The vacant seats in NRI quota, if any, shall be filled up by such son / daughter / real brother /real sister of NRI's, who have passed intermediate or (10+2) or equivalent examination; with physics, chemistry and mathematics without grace in each of physics, chemistry and mathematics and securing minimum 50% marks (45% for SC/ST) in physics, chemistry and mathematics taken together, from an institution situated in India.
- (iii) The children of real brother / sisters and son / daughter of NRI may also be considered if the seats remain vacant after admitting the eligible NRI, their son/daughter and real brother/sister. The minimum requisite qualification shall be same as clause 3.4(ii).
- (iv) The relative merit of candidates will be decided based on the total marks obtained by them in physics, chemistry and mathematics. Such candidates need not appear in the UPSEE-2015.
- (v) **All such candidates MUST submit an NRI certificate obtained from Indian Diplomatic Mission / Chancellery / High Commission under their seal at the time of counselling.**
- (vi) **The candidate MUST also submit sufficient documents clarifying without ambiguity their true relationship with the sponsoring NRI to the satisfaction of the University.**
- (vii) The candidates will be informed separately about the date of counselling, and number of seats under this quota, and they are required to be present in person on the day of counselling with original documents / certificates, failing which they will loose their claim.
- (viii) The latest orders issued by Govt. of U.P. upto the date of NRI counselling shall be applicable for admission in NRI quota.
- (ix) The detailed information will be published through Newspapers and websites: <http://www.uptu.ac.in> or <http://www.upseeuptu2015.in> in the month of May 2015.

### **3.5 ELIGIBILITY FOR ADMISSION TO FOREIGN NATIONALS (FN) / PERSONS OF INDIAN ORIGIN (PIO) / CHILDREN OF INDIAN WORKERS IN GULF COUNTRIES (CIWGC) IN FIRST YEAR**

FN/PIO/CIWGC seats shall be filled from Foreign Nationals / PIO's/CIWGC who:

- (i) have passed the qualifying examination with Physics, Chemistry and Mathematics, which is considered equivalent to (10+2) examination by the Association of Indian Universities.
  - (ii) Posses valid SAT-II score with Mathematics level II C, Physics and Chemistry.
  - (iii) should submit a copy of passport or equivalent evidence support of their Nationality.
- Their relative merit shall be decided based on their SAT-II score.

### **3.6 ELIGIBILITY FOR DIRECT ADMISSION TO FIRST YEAR IN PRIVATE INSTITUTIONS AT INSTITUTE LEVEL UNDER MANAGEMENT QUOTA (FOR NRI CANDIDATES) / VACANT SEATS AFTER COUNSELLING OF UPSEE-2015**

- (i) The 15% seats<sup>3</sup> in private institutions shall be filled by the NRI candidates at institute level under management quota as per eligibility criteria in clause 3.4. The vacant seats in NRI/Management quota or vacant seats after counselling of UPSEE-2015 shall be filled strictly in following preference order, within fifteen days of the last date of counselling:
  - (1) Firstly, by the qualified candidates of UPSEE-2015, who fulfill the eligibility as per clause 3.1. Their relative merit will be decided on their rank in UPSEE-2015.
  - (2) Secondly, (a) by the qualified candidates of JEE (Main)-2015 fulfilling the eligibility as per clause 3.1 for B.Tech./B.Arch, (b) by the qualified candidates of valid CMAT/CAT/MAT score fulfilling the eligibility as per clause 3.1 for MBA. Their relative merit will be decided on their rank in respective entrance examinations.
  - (3) Thirdly, by the merit of candidates in qualifying examination with the following conditions:
    - (a) For admission to first year of B. Tech. / B. Pharm., candidate must have passed intermediate examination of U. P. Board or 10+2 level examination or its equivalent from any recognized Board / University; securing minimum 50% (45% for SC/ST) marks in required subject

<sup>3</sup> It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling.

combination (two compulsory & one optional) taken together. The candidate is essentially required to pass without any grace marks (as per respective Board/University) in each subject of the subject group indicated in para 3.1 (i). The relative merit shall be decided based on total marks in subject combination (clause 3.1(i)) of qualifying examination.

- (b) For admission to first year of BHMCT/BFAD/BFA/MAM, candidate must have passed intermediate examination of U. P. Board or 10+2 level examination or its equivalent from any recognized Board / University; securing minimum 50% (45% for SC/ST) marks in aggregate without any grace marks. The relative merit shall be decided based on aggregate of qualifying examination.
  - (c) For admission to first year of MBA in any institution affiliated to UPTU, Lucknow , a candidate must have passed minimum three years Bachelor degree course from any recognized University; securing minimum 50% (45% for SC/ST) marks in aggregate without any grace marks. The relative merit shall be decided based on aggregate of qualifying examination.
  - (d) For admission to first year of MCA in any institution affiliated to UPTU, Lucknow, a candidate must have passed minimum three years Bachelor degree course from any recognized University; securing minimum 50% (45% for SC/ST) marks in aggregate without any grace marks. Candidate must have passed mathematics at 10+2 level. The relative merit shall be decided based on aggregate of qualifying examination.
- (ii) Institute shall ensure filling of these vacant seats inviting the applications through advertisement in atleast two leading newspapers of the State level and Institute website, giving atleast one-week time to submit the applications. Admissions shall be strictly based on clause 3.6(i) mentioned above. However, applicants opting B.Arch. course under this category has to appear in Aptitude Test on the day of counseling to be notified later.

### **3.7 ELIGIBILITY FOR DIRECT ADMISSION (LATERAL ENTRY) TO SECOND YEAR IN PRIVATE INSTITUTIONS UNDER VACANT SEATS AFTER COUNSELLING OF UPSEE-2015<sup>4</sup>**

The vacant seats in B. Tech./B.Pharm./MCA course after UPSEE-2015 counselling for lateral entry (second year) shall be filled within 15 days of the last date of counseling at institute level, firstly by the qualified candidates of UPSEE-2015, who fulfill the eligibility as per clause 3.3. Their relative merit will be decided on their rank in UPSEE-2015.

There after, the vacant seats, if any, will be filled on merit by such candidates who have passed the qualifying examination securing minimum 50% (45% for SC/ST) marks in aggregate without any grace marks.

Institute shall ensure the filling of these seats by inviting the applications through advertisement in atleast two leading newspapers of state and institute website, and give atleast one week time to submit the applications.

## **4. EXAMINATION DETAILS**

UPSEE-2015 (OMR mode) will be conducted for Twelve papers with objective multiple type questions except Drawing Aptitude test (Part B of paper 4). The candidates are required to opt papers and subjects for appearing in the entrance examination as mentioned in clause 4.3, subject to their eligibility as per clause 3.

### **4.1 SCORING AND NEGATIVE MARKING**

- (i) All objective type questions are required to be answered on a specially designed OMR answer sheet against the respective question number. Candidate is supposed to select only one choice for correct answer in each question.
- (ii) Every objective multiple type question would carry four marks for each correct answer. More than one answers indicated against the question will be deemed as incorrect answer and no marks is awarded for the incorrect answer.

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<sup>4</sup> It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling.

- (iii) There will be **no negative marking**. However, a record of incorrect answers given by a candidate will be kept separately.
- (iv) Answers are to be marked using ballpoint pen (Black / Blue) only. For the purpose of evaluation, the details filled in by the candidate in the OMR answer sheet will be treated as final.

#### 4.2 QUESTION PAPERS AND SUBJECTS IN THE ENTRANCE EXAMINATION

Paper	Subjects	Number of Questions	Marks
Paper 1	Physics, Chemistry and Mathematics	50 objective type questions each of Physics, Chemistry and Mathematics with a total of 150 questions.	600
Paper 2	Physics, Chemistry and Biology	50 objective type questions each of Physics, Chemistry and Biology with a total of 150 questions.	600
Paper 3	AG-I, AG-II and AG-III	50 objective type questions each of AG-I, AG-II and AG-III with a total of 150 questions.	600
Paper 4	Aptitude Test for Architecture Part-A: Mathematics and Aesthetic Sensitivity Part-B: Drawing Aptitude	50 objective type questions each of Mathematics and Aesthetic Sensitivity with a total of 100 questions and Two questions to test drawing aptitude.	500
Paper 5	Aptitude Test for General Awareness (BHMCT/BFAD/BFA)	75 objective type questions	300
Paper 6	Aptitude Test for Diploma Holders in Engineering (Lateral Entry)	75 objective type questions	300
Paper 7	Aptitude Test for Diploma Holders in Pharmacy (Lateral Entry)	75 objective type questions	300
Paper 8	Aptitude Test for B.Sc. Graduates in Engineering (Lateral Entry)	75 objective type questions	300
Paper 9	Aptitude Test for MBA	100 objective type questions	400
Paper 10	Aptitude Test for MCA	100 objective type questions	400
Paper 11	Aptitude Test for MAM	100 objective type question	400
Paper 12	Aptitude Test for 2 <sup>nd</sup> Year MCA (Lateral Entry)	100 objective type question	400

#### 4.3 QUESTION PAPERS REQUIRED FOR DIFFERENT COURSES

COURSE	PAPERS
B. Tech. / B. Tech. (Agriculture Engineering)	Paper 1
B. Tech. (Bio Technology)	Paper 1 or Paper 2
B. Tech. (Agriculture Engineering) only <sup>5</sup>	Paper 3
B. Pharm.	Paper 1 or Paper 2
B. Arch. <sup>6</sup>	Paper 4
BHMCT / BFAD/BFA	Paper 5

<sup>5</sup> See Clause 3.1 (v) also.

<sup>6</sup> Diploma holders of Architecture are also required to appear in paper 4. See clause 3.1(iv) also.

<b>Lateral Entry:</b> B.Tech. 2 <sup>nd</sup> Year (for Engg. Diploma Holders) B.Pharm 2 <sup>nd</sup> Year (for Pharmacy Diploma Holders) B.Tech. 2 <sup>nd</sup> Year (for B. Sc. Graduates)	Paper 6 Paper 7 Paper 8
MBA	Paper 9
MCA	Paper 10
MAM (Dual Degree)	Paper 11
2 <sup>nd</sup> Year MCA (Lateral Entry)	Paper 12

## 5 SCHEDULE OF EXAMINATION

Date of Examination	Paper Code	Subjects	Timing (Total Time Period)
18 <sup>th</sup> April, 2015 (Saturday)	Paper 09/ Paper 11	Aptitude Test for MBA/ Aptitude Test for MAM	10:00 AM – 12:00 Noon (2 Hours )
	Paper 10	Aptitude Test for MCA	1:00 PM – 3:00 PM (2 Hours )
	Paper 12	Aptitude Test for 2 <sup>nd</sup> Year MCA (Lateral Entry)	4:00 PM –6:00 PM (2 Hours )
19 <sup>th</sup> April, 2015 (Sunday)	Paper 6/ Paper 7/ Paper 8	Aptitude Test for Diploma Holders in Engg. / Aptitude Test for Diploma Holders in Pharmacy / Aptitude Test for B.Sc. Graduates	7:30 AM to 9:00 AM (1 Hour 30 Minutes)
	Paper 1/ Paper 2/ Paper 3	Physics, Chemistry and Mathematics / Physics, Chemistry and Biology / AG-I, AG-II and AG-III	10:00 AM to 1:00 PM (3 Hours)
	Paper 4	Aptitude Test for Architecture	2.00 PM to 4:30 P.M. ( 2 Hours 30 Minutes)
	Paper 5	Aptitude test for General Awareness (BHMCT/BFAD/BFA)	5:00 PM to 6:30 PM (1 Hour 30 Minutes)

## 6. SYLLABUS

The Syllabus for each question paper for the UPSEE-2015 is given at Appendix–A.

## 7. EVALUATION AND DECLARATION OF RESULT

7.1 The results of UPSEE-2015 alongwith answer keys will be declared on or before 20<sup>th</sup> May, 2015.

7.2 Based on performance of the candidates in UPSEE-2015, separate merit lists will be prepared for each course. Merit position, score-card with total marks and marks obtained in each subject shall be available on website **after the declaration of the result.**

7.3 In case two or more candidates secure equal marks, inter-se-merit of such candidates shall be determined as follows:

(a) **Firstly**, by the number of incorrect answers given. A candidate giving lesser number of incorrect answers will be placed at higher merit.

(b) **Secondly,**

- B. Tech. : By the marks obtained in Mathematics, Physics, Chemistry sections of Paper 1 respectively and then by age.\*
- B. Pharm. : By marks obtained in Biology, Chemistry, Physics sections of Paper 2 respectively and then by age.\*
- B. Arch. : By marks obtained in Drawing Aptitude, Mathematics & Aesthetics sensitivity section of Paper 4 respectively and then by age.\*
- B.Tech.(Ag.Engg.) : By marks obtained in AG-I,AG-II,AG-III section of Paper 3 respectively and then by age.\*
- B.Tech. (Bio Tech.): Same as applicable in B.Tech./ B.Pharm
- BHMCT/BFAD/BFA/MAM/MBA/MCA/Lateral entry: \*By age only

\* Candidate with higher age will be placed at higher merit.

- 7.4 The cut-off percentage of marks in UPSEE-2015 for the merit of successful candidates is 25% (20% for SC/ST) as per UP State Govt order.
- 7.5 Successful candidates shall be called for counselling according to their merit in UPSEE-2015 by giving intimation through Newspapers and website. However, the allotment of seat shall depend on the availability of seat on the day of counseling. The successful candidates are advised to keep a close watch on websites <http://www.uptu.ac.in> or <http://www.upseuptu2015.in> and Newspapers for counselling dates. The counselling schedule can be downloaded from the website.

## 8. CATEGORY DEFINITIONS

- 8.1 Candidates, who have passed the qualifying examination from an institution located in the State of Uttar Pradesh and who do not claim for any reserved category are eligible for admission to all the courses at all the institutions against available General (OPEN) seats (No certificate required).  
[Code: **UPGE**]
- 8.2 Candidates, who have passed the qualifying examination from an institution located in State of U.P.; and are domicile of U.P.; and belong to Schedule Caste (SC) of U.P. / Schedule Tribe (ST) of U.P. / Other Backward Classes of U.P. are eligible for admission against available reserved seats of their category. Certificate no. 1 or 2 as applicable is required. List of SC, ST and OBC casts as per SC/ST Act 1976 and Government Order 4/1/2001-TC/Ka-2/2002 dt. 19/09/2002 is attached in Appendix F.  
[Respective Codes: **UPSC / UPST / UPBC**]
- 8.3 Candidates, who have passed the qualifying examination from an institution located outside U.P.; and whose parents are domicile of U.P.; and who have not claimed for any reserved category, are also eligible for admission to courses offered at all institutions under General (OPEN) category. Such candidate has to produce the domicile certificate of his/her parents (**Father OR Mother only**) at the time of counselling (certificate no. 3).  
[Code: **UPGD**]
- 8.4 Candidates, who have passed the qualifying examination from an institution located outside U.P.; and whose parents are domicile of U.P.; and who belong to Schedule Caste of U.P. / Schedule Tribe of U.P. / Other Backward classes of U.P. are also eligible for admission against reserved seats of their category. Such candidate has to produce the domicile certificate of his/her parents (**Father OR Mother only**) (certificate no. 3) and category certificate (no. 1 or 2 as applicable) at the time of counselling. List of SC, ST and OBC castes as per SC/ST Act 1976 and Government Order 4/1/2001-TC/Ka-2/2002 dt. 19/09/2002 is attached in Appendix F.  
[Respective Codes: **GDSC/GDST/GDBC**]
- 8.5 The domicile requirement to son/daughter of following is **relaxed** and admission is permitted to such:
- defence personnel settled in U.P. on the date of Entrance Examination after retirement / being disabled in action or Defence personnel killed in action and the dependents settled in U.P. on the date of Entrance Examination. Certificate no. 5 is required.
  - defence personnel who are not domicile of U.P., but are posted in U.P. on the date of Entrance Examination. Certificate no. 5 is required.

(iii) employee of **All India Services** belonging to U. P. cadre. Certificate no. 11 is required. GDDA candidates will be considered as UPGD category for all other benefits. [Code: **GDDA**]

Proforma of various certificates are available in Appendix – D.

## 9. RESERVATION OF SEATS

### 9.1 Vertical Reservation (Category):

Category	Percentage of Reservation
(a) Scheduled Caste of U.P.	21%
(b) Scheduled Tribe of U.P.	02%
(c) Other Backward Classes of U.P.	27%

### 9.2 Horizontal Reservation (Sub-category available in each category):

Sub-Category	Code	Maximum Percentage of Total Seats
(a) Dependents of Freedom Fighters from U.P.	UPFF	02%
(b) Sons / Daughters of defence personnel of U.P. either retired (superannuated) or killed / disabled in action or defence personnel posted in U.P./defence personnel domicile of U.P. & posted outside U.P.	UPAF	05%
(c) Handicapped / Disabled of U.P.	UPHC	03%
(d) Girls of U.P.	UPGL	20%

9.3 The candidates can be given only one type of horizontal reservation Out of UPFF/UPAF/UPHC. **However, the girl candidates can also claim for any one of UPFF/UPAF/UPHC alongwith UPGL.**

9.4 Subsequent request for the change of category / sub-category filled in Application Form shall not be entertained under any circumstances.

9.5 Category / sub-category must be supported by the relevant certificates as per proforma given in the Appendix-D to be produced at the time of counselling, failing which the candidates shall be treated in General Category.

9.6 The advantage of horizontal reservation in Armed force sub-category is available to sons/daughters of 'defence personnel of U.P. either retired (Superannuated) or killed / disabled in action and the dependents settled in U.P.' or 'the defence personnel posted in U.P.' on the date of Entrance Examination.

9.7 Certificate no. 4, 5 and 6 are required at the time of counseling, for claiming reservations in subcategories mentioned at clause 9.2 (a), (b) and (c) respectively.

9.8 **The seats available under Fee Waiver scheme will be notified in respective category at the time of counselling.**

9.9 **Please note that benefits of UPGL subcategory will automatically be given to all the Female candidates.**

## 10 WEIGHTAGE TO CANDIDATES FROM RURAL AREAS OF UTTAR PRADESH

10.1 A weightage of 3% of the total marks obtained at UPSEE-2015 will be given to such UPGE candidates for B.Tech./B.Pharm/B.Arch./BHMCT/BFAD/BFA courses, who have passed the qualifying examination from an institution situated in rural area of Uttar Pradesh.

10.2 For this purpose, the institutions should be situated in the jurisdiction of Gram Panchayat but the area should not be industrially developed. Such candidates must produce certificate number 7 at the time of counselling.

10.3 **Rural weightage is not applicable for a candidate opting any other reservation and for a candidate opting direct admission to second year.**



**10.4 Rural weightage is not applicable for candidates under UPGD category defined in clause 8.3.**

**11. MEDICAL STANDARDS**

11.1 Candidates will have to submit a certificate of Medical fitness/ handicap on Certificate number 9 at the time of counselling.

11.2 The medical standards prescribed are given below:

**Medical Standards Applicable:**

Height	Candidate should be Physically fit to pursue his/her studies in opted course.
Weight	
Chest measurement	
Heart and lungs	No abnormality
Hernia, Hydrocele, Piles etc.	Presence of any of these is to be corrected before joining.
Vision	Normal. If defective, it must be got corrected to 6/9 in the better eye and 6/12 in the worse one. Eyes should be free from congenital or any other disease.
Hearing	Normal. If defective, it must be got corrected before joining.
Physically Handicapped / Disabled	The candidate having any one type of physical handicap/ disability given below.

**Physically Handicapped / Disabled:**

<b>Type – I</b>	Minimum 40% permanent Visual impairment
<b>Type – II</b>	Minimum 40% permanent Locomotors disability
<b>Type – III</b>	Minimum 40% permanent speech and Hearing impairment

**12. CITY OF EXAMINATION**

The UPSEE-2015 will be held at various cities given in Appendix–E. The candidates are advised to give three choices of examination cities. Certain examination cities may be cancelled if sufficient number of candidates do not opt for that city. Request for change of city of examination shall not be entertained under any circumstances.

**13. ADMIT CARD**

13.1 Admit card will be available online to every candidate. **Downloaded admit card shall be treated as valid admit card.** The candidates are advised to check the details of admit cards with regards to their category, sub-category, gender, rural weightage, Name, Father's Name etc. as mentioned on the Admit Card. In case of any discrepancy, the candidate may report to the examination centre superintendent for such correction on Form no. 09 on the day of examination.

13.2 A nodal centre (Available at website) in each city of examination shall be established to issue Duplicate Admit Cards (in case of non-receipt of admit card) on **April 17, 2015 from 10 AM to 5 PM**, but not on the dates of examination to these candidates. No candidate will be allowed to appear in the examination without admit card.

13.3 To get duplicate admit card, the candidate should contact the nodal centre situated in the city of examination, which he/she has opted as first choice. Such candidate should carry the following to the nodal centre:

- (i) Two passport size color photograph similar to that pasted on the application form.
- (ii) Rs. 25.00 as Fee for duplicate admit card.
- (iii) The Application Registration Number

- (iv) Proof (receipt of speed Post / registered Post) of having submitted the Confirmation Page.
- 13.4 If any candidate is unable to download his/her admit card, he/she should contact the helpline as indicated on the website <http://www.upseeuptu2015.in> or send an email to the mail address [support@upseeuptu2015.in](mailto:support@upseeuptu2015.in) latest by 15<sup>th</sup> April, 2015.
- 13.5 A plea that a candidate failed to receive the information for appearing at the Examination will not be accepted as a ground for the refund of fee or any other redressal. UPSEE-2015 may withdraw the permission to appear in UPSEE-2015 granted by mistake to a candidate who is not eligible to appear at the UPSEE-2015 even if an Admit Card has been issued and produced by the candidate before the concerned Centre Superintendent at the Examination Centre.
- 13.6 In case of any reported correction, the final corrected admit card will have to be downloaded from website <http://www.uptu.ac.in> or <http://www.upseeuptu2015.in> before the examination date.
- 13.7 **Since successful candidates are required to produce the Admit Card at the time of counselling and admission, it should be carefully preserved until the admission process is completed.**

#### **14. MEDIUM AND MODE OF EXAMINATION & EVALUATION**

All question papers (except part B of paper-4) will carry objective multiple-choice questions. Answers will be evaluated by OMR methodology. All question papers for undergraduate admissions (except paper-4) will be in Hindi and English both, but in case of any ambiguity, the English version shall be considered final. The candidates appearing in the UPSEE-2015 have the option to answer part B of Paper-4 either in English or in Hindi. In all cases, the Standard English numerals must be used.

#### **15. COUNSELLING: ON LINE COMPUTER METHODOLOGY**

- 15.1 Successful candidates will be required to participate in the counseling process. The information about Counseling procedure, Counselling Schedule, Document Verification Centres and Counselling Centre etc., will be notified on the website: <http://www.uptu.ac.in> or <http://www.upseeuptu2015.in>.
- 15.2 The successful candidates will be called for document verification at the document verification centres/counseling centres based on their **State Rank (Combined General Rank)**, even if they belong to reserved category. However, the advantage of their reserved category rank (in case they submit proper category reservation certificate) shall be provided at the time of allotment of seats.
- 15.3 The allotment of the seat/Institution/branch will be made through counselling based on the merit position of candidates in UPSEE-2015 in their eligible category.
- 15.4 Counselling letter will not be sent by post to the successful candidates. The candidate should visit above website <http://www.uptu.ac.in> or <http://www.upseeuptu2015.in> frequently.
- 15.5 The candidates will be required to report for the document verification at the document verification centre/ counseling centre with original certificates of qualifying examination, marksheet, rural weightage certificate, domicile and category / reservation certificates etc. with one attested copy of each. In case the candidates do not submit the proper category / reservation certificate in the prescribed proforma at the time of counselling, the advantage of reserved category shall not be provided and they will be treated in General Category. If the candidate has passed qualifying examination from outside of U.P., he/she has to bring the domicile certificate of his/her parents (Father OR Mother) only at the time of counseling. The candidate must note that his/her domicile certificate in place of his parent's certificate, is not acceptable and no request shall be entertained for relaxation.
- 15.6 Verification of original documents would be done at the document verification centre / counselling centre. The purpose would be to verify different records regarding, qualifying examination, state of eligibility, category/ reservation certificate and weightage etc. of the candidate. The candidates will not be considered for admission if he does not show the original documents at document verification centre / counselling centre. However the originals will be returned to candidates immediately after verification.
- 15.7 The candidate will also have to deposit a bank draft of counselling fee (notified at the time of counselling) at the time of verification.
- 15.8 The counselling fee is non-refundable.
- 15.9 After allotment of seat, the candidates are required to deposit a 'part of college/ institute fee (notified at the time of counselling)' in form of Bank draft at respective document verification centres / counselling centers within three days from the date of issue of allotment/admission letter (inclusive the date of issue

of allotment letter), failing which the allotted seat will automatically be cancelled. This part of college/institute fee is adjustable against total fee payable at institution if candidate takes admission at allotted institute / university. This amount will be forfeited if the candidate does not take admission in allotted institution and requests for return of this fee in such case will not be entertained.

- 15.10** If a candidate wishes to participate in counselling for more than one course, he/she has to deposit the counselling fee (in form of Bank Draft) separately for each course.
- 15.11** After first counselling, the special drive for re-counselling will be conducted for filling the vacant seats of reserve categories. The detailed procedure for re-counselling of special drive shall be displayed on the website <http://www.uptu.ac.in> or <http://www.upseeuptu2015.in> at the time of counselling.
- 15.12** All the Bank drafts must be prepared separately and drawn in favour of 'Finance Officer, Uttar Pradesh Technical University, Lucknow' payable at city branch of applicant's counseling centre. For example, a student appearing for counselling at Kanpur, the draft should be in favour of 'Finance Officer, Uttar Pradesh Technical University, Lucknow' payable at Kanpur.
- 15.13** Counselling Procedures will be available on website: <http://www.uptu.ac.in> or <http://www.upseeuptu2015.in> well in time before start of counselling. The candidates are advised to visit this website for procedures of on-line counselling.
- 15.14** In UPSEE-2015, the counselling will be conducted on-line through internet. The candidates can submit their choices (colleges and branches) through Internet from any place of their convenience or from any document verification centre/counselling centre within the notified period.
- 15.15** The counselling may tentatively start in last week of May 2015. For details of counselling schedule, keep visiting the website: <http://www.uptu.ac.in> or <http://www.upseeuptu2015.in> frequently after declaration of result.
- 15.16** The latest instructions of AICTE, Govt. and UPTU upto the date(s) of counselling shall be applicable.
- 15.17** According to G.O. no. 2426/Solah-1-2009-13(128)/2009 dated 10-09-2009 the admission will be given on 60 percent seats in undergraduate courses to Physically Handicapped candidates in Dr. Ambedkar Institute of Technology for handicapped, Kanpur and remaining 40 percent seats are reserved for General candidates. The reservation policy of U.P. Govt. will be applicable on both types of seats.
- 16 REFUND RULES VALID FOR FEES DEPOSITED AT VERIFICATION CENTRE/COUNSELLING CENTRE**
- 16.1** Counselling fee will be non-refundable in all cases and no claim will be entertained for its refund at any stage.
- 16.2** No Refund of 'part of college/institute fee' deposited at verification centre/ counselling centre will be admissible, if the candidate does not take admission in allotted college/institution for any reason whatsoever, and no claim will be entertained for its refund.

## HOW TO FILL OFF LINE APPLICATION FORM ( UG & PG COURSES)

The On-Line application to UPSEE-2015 can be done as per clause 17 of the Information Brochure as given below.

### 17 . AVAILABILITY OF INFORMATION BROCHURE AND SUBMISSION OF OFF-LINE APPLICATION FORMS

The Information Brochure will be available ON LINE on the websites <http://www.upseeuptu2015.in> and <http://www.uptu.ac.in> only. The same can be downloaded and/or printed for reference by the candidates.

The application form can be filled in one of the following manner.

(A) On-Line through Internet from any place of convenience

OR

(B) Off-Line through any designated Helpdesk (Affiliated Institution of U.P. Technical University, Lucknow). Lists of Helpdesks are available on the website: <http://www.upseeuptu2015.in> and <http://www.uptu.ac.in>.

### 17.1 SUBMISSION OF OFF-LINE APPLICATION FORMS (Through Help Desks)

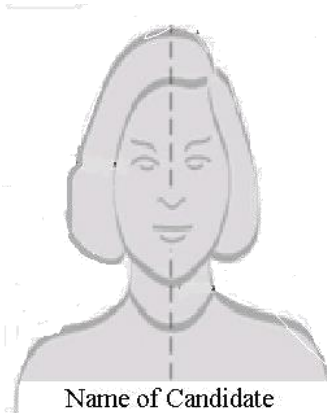
The off-line application can be made from 10.A.M., 25<sup>th</sup> Feb 2015 till 10:00 pm of 04<sup>th</sup> April 2015 by filling up OFF-LINE application form through designated Help Desks at various cities. The list of Help Desks is available on website <http://www.upseeuptu2015.in> and <http://www.uptu.ac.in> .

**The OFF-LINE application form submission consists of following three simple steps.**

- (i) Filling up of OFF-Line Application Form at the Help desk
- (ii) Submission of Photograph, Signature & Thumb Impression.
- (iii) Payment of Examination Fee and print your Confirmation Page.

Before, a candidate starts filling the OFF-LINE application Form, he/she is supposed to be ready with the following:

- (i) A personal mobile phone number and/or a personal E-Mail id.
- (ii) **Photograph:** His/Her recent passport size color photographs (3.5cm X 4.5cm) with front facing to the camera in a manner that full face shows. The background should be either white or off-white and uncluttered. The photograph should be colour with name of the candidate printed on it as shown in the sketch below. It should be without cap or goggles. Spectacles are allowed. Candidates with unclear photograph are liable to be rejected. Candidates may keep 6-8 identical photographs in reserve for use at the time of entrance examination,



Once ready with this, the candidate should fill Off-Line application form in following steps.

### Filling up of OFF-Line Application Form

- (a) The candidate interested in filling Off-Line application form should report to any of the nearest Help Desk and ask for the application form of UPSEE-2015. The Application form will be made available free of cost by the Help Desk.
- (b) The candidate should read the eligibility requirements etc. given in the information brochure available on the website <http://www.upseeuptu2015.in> and <http://www.uptu.ac.in> carefully and fill all the entries of the application form accordingly. The candidate must carry his/her passport size photograph (Two Copies) and should paste his photograph at the specified place in the application form. At the time of filling the application form, a candidate must possess following.
  - (i) Two passport size color photograph
  - (ii) A personal mobile phone number and/or a personal E-Mail id. Mobile Phone number is an essential requirement.

The mobile phone number / E-Mail id of the candidate will be used by **UPSEE-2015** for communication with the candidate at various stages of the examination process.
- (a) The candidate must submit the duly filled Application Form at same Help Desk (**Day-1**). Once, the Help Desk completes the necessary formalities, the candidate may proceed for payment of examination fee.

### Payment of Examination Fee

- (b) A candidate can pay examination fee in one of the following manner.
  - (i) Through Bank Challan (Through SBI Collect)
  - (ii) Through Credit Card / Debit Card / Netbanking

#### Payment through Bank Challan:

If you are opting to pay through bank challan, the SBI Collect will provide you **Bank Challan** in duplicate. The challan will contain your credentials along with the required fees. You should take the challan along with your signature and the requisite fees to the designated bank for the payment on next day (Day 2) of filling the application form.

The bank will provide you a transaction number. Make sure that the transaction number is filled up correctly at the space provided on the challan. You are required to note down this transaction number for future correspondences.

### **Payment through Credit Card / Debit Card / Netbanking**

The candidate has also an option to deposit the examination fee through credit card / debit card / Netbanking. If you are opting to pay the examination fee through credit card/debit card/Netbanking, the help desk will provide you necessary internet connection to facilitate you to make the payment. All VISA/Master cards are accepted. The payment in this mode can be done on the next day (Day-2).

### **Submission of Photograph, Signature & Thumb Impression and Printing of the “Confirmation Page”**

- (c) The candidate, after depositing the examination fee, must report to the same Help Desk **further** next day (Day-3), submit his/her Photograph, Thumb impression & Signature to the Help Desk and collect **Three** copies of his/her “**Confirmation Page**” of the Application Form from the same Help desk.
- (d) The candidate must keep a copy of “Confirmation Page” with him. The “Confirmation Page” will contain a “Registration Number”. You are required to note down this registration number for all future correspondences.
- (e) One of copy of the “Confirmation Page” has to kept safely by the candidate for future requirements and second copy of “Confirmation Page” has to be sent to the University at the given address after pasting his/her passport size photograph, putting his/her signature & thumb impression (left thumb) and parent/ guardian signature at the space provided on the confirmation page. The Third copy of Confirmation Page and a copy of “Bank Challan” will be kept by the “Helpdesk” along-with “Offline Application Form” filled in by candidate in his/her handwriting.

### **17.2 The examination fee is as under:-**

<b>For Male Candidates of General/ OBC Category</b>	<b>For SC/ST Category and All Female Candidate</b>
<b>Rs. 800/-</b>	<b>Rs. 400/-</b>

Please note that the bank may additionally charge service charges plus applicable taxes while making the payment through Credit Card/Debit card or Challan.

### **17.3 The duly signed completed “Confirmation Page” along with copy of challan (if the payment is made through bank challan) must be sent by **Speed Post / Registered Post** only to**

**The Registrar, UPSEE-2015  
Uttar Pradesh Technical University,  
I.E.T. Campus, Sitapur Road,  
Lucknow-226021**

so as to reach latest by **09<sup>th</sup> April 2015 (5.00 PM)**.

The application form delivered by any other means shall not be accepted. The application forms received in the University after the last date will not be accepted.

**18. SUBMISSION OF ON-LINE APPLICATION FORM**

**18. SUBMISSION OF ON-LINE APPLICATION FORM**

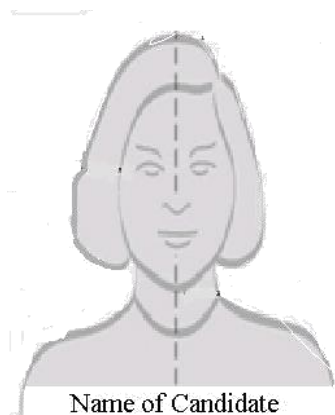
18.1 **APPLICATION PROCEDURE:** The online application can be made from 10.A.M., 25<sup>th</sup> Feb 2015 till 10:00 pm of 04<sup>th</sup> April 2015 through the website <http://www.upseeuptu2015.in> or <http://www.uptu.ac.in> as per detailed procedure given in the websites. For assistance (in case of any difficulty) in filling up ON-LINE application form, candidate may contact the Help Desks at various cities. The list of Help Desks shall be made available on website.

**The On-Line application form submission consists of following three simple steps.**

- (i) Filling up of Personal Details
- (ii) Payment of Examination Fee
- (iii) Uploading of Scanned Images of Photograph, Signature and Thumb Impression And Printing of the "Confirmation Page"

**Before, a candidate starts filling the On-Line application Form, he/she is supposed to be ready with the following:**

- (i) A personal mobile phone number and/or a personal E-Mail id.
- (ii) **Photograph:** A clear scanned image of his/her recent color passport size photograph **(3.5cm X 4.5cm)** in **JPEG** Format with a maximum size of **20 KB**. The photograph must be front facing to the camera in a manner that full face shows. The background should be either white or off-white and uncluttered. The photograph should be colour with name of the candidate printed on it as shown in the sketch below. It should be without cap or goggles. Spectacles are allowed. Candidates with unclear photograph are liable to be rejected. Candidates may keep 6-8 identical photographs in reserve for use at the time of entrance examination.



- (iii) A clear scanned image of his/her signature (3.5cm X 1.5cm) in JPEG Format with a maximum size of 10 KB.
- (iv) A clear scanned image of his/her left thumb impression (3.5cm X 1.5cm) in JPEG Format with a maximum size of 10 KB

Once ready with this, he/she may proceed to following steps. Visit the website <http://www.upseeuptu2015.in> and through the link "Apply Online" followed by the link "Online application Form for UG & PG Courses", you may start filling the application.

### Filling up of Personal Details

1. The applicants should submit all the details as per their eligibility while filling the online application form. After filling online application form; you are required to review all the entries filled by you by clicking on "NEXT to REVIEW" button" before submitting it.

In case of mistakes, correct the same through "back" button and again review all the entries once again before submitting it. Here, it is clarified that you may change the entries as many times as you want before submitting the Form by clicking the "FINAL SUBMIT" button.

Note that, once "FINAL SUBMIT" button is pressed and application form is submitted, entries in the form can not be modified/changed/corrected in any way. Therefore before clicking the "FINAL SUBMIT" button, make it doubly sure that all the entries are filled correctly.

2. On submission of application, a registration number will be generated. You are required to note this registration number for all future correspondences.

### Payment of Examination Fee

3. A candidate can pay examination fee in one of the following manner.

- (i) Through Bank-Challan (Through SBI Collect)
- (ii) Through Credit Card / Debit Card / Netbanking

#### Payment through Bank-Challan:

If you are opting to pay through bank challan, click the required link (download Bank challan) to generate the challan in triplicate. The challan will contain your credentials along with the required fees. You should take the challan along with your signature and the requisite fees to the designated bank for the payment on next day (Day 2) of filling the application form, if the form is filled till 5 pm. In case application is filled after 5 pm, the candidate is supposed to take the duly signed challan for payment on Day 3 to the Bank.

The bank will provide you a transaction number. Make sure that the transaction number is filled up correctly at the space provided on the challan.

You are required to note this transaction number for all future correspondences.

#### Payment through Credit Card / Debit Card / Netbanking

If you are making payment through credit card / debit card, then click an appropriate link and make the payment. All VISA/Master cards are accepted. You should be ready with your credit, debit card details. The payment in this mode can be done on the same day (Day-1).

You are required to note this transaction number for all future correspondences

Uploading of Scanned Images of Photograph, Signature and Thumb Impression and Printing of the "Confirmation Page".



4. (a) If the payment is made through bank challan, to generate the confirmation page, visit the website <http://www.upseeuptu2015.in> and <http://www.uptu.ac.in> on next day of the date of payment of examination fee (Day 3 or Day 4) and click the link "Upload Images and Generate the Confirmation Page (Bank-Challan mode)".

Fill up registration number and transaction number (provided by bank) alongwith other required details and then upload scanned images of your recent photograph, signature & Thumb Impression.

Once uploading is complete, The candidate must review the uploaded images by clicking on "NEXT to REVIEW" button on the page before submitting it.

In case of mistakes, correct the same through "back" button and again review once again before submitting it. Here, it is clarified that you may change the entries as many times as you want before submitting the Form by clicking the "FINAL SUBMIT" button.

Note that, once "FINAL SUBMIT" button is pressed and application form is submitted, uploaded images can not be modified/changed/corrected in any way. Therefore before clicking the "FINAL SUBMIT" button, make it doubly sure that these are correct.

Once satisfied, in order to submit the form, press "FINAL SUBMIT" button and proceed to generate "Confirmation Page".

Thereafter, the confirmation page of your application form will be generated. Take the printout of the "Confirmation Page" in two copies.

One of copy of the "Confirmation Page" has to kept safely by the candidate for future requirements and second copy of "Confirmation Page" has to be sent to the University at the given address after pasting his/her passport size photograph, putting his/her signature & thumb impression (left thumb) and parent/ guardian signature at the space provided on the confirmation page.

The "Confirmation Page" will contain a "Registration Number". You are required to note down this registration number for all future correspondence

- (b) If the payment is made through credit card / debit card, to generate the confirmation page, click the link "Upload Images and Generate the Confirmation Page" and then upload scanned images of your recent photograph, signature & Thumb Impression.

Once uploading is complete, The candidate must review the uploaded images by clicking on "NEXT to REVIEW" button on the page before submitting it.

In case of mistakes, correct the same through "back" button and again review once again before submitting it. Here, it is clarified that you may change the entries as many times as you want before submitting the Form by clicking the "FINAL SUBMIT" button.

Note that, once "FINAL SUBMIT" button is pressed and application form is submitted, uploaded images can not be modified/changed/corrected in any way. Therefore before clicking the "FINAL SUBMIT" button, make it doubly sure that these are correct.

Once satisfied, in order to submit the form, press "FINAL SUBMIT" button and proceed to generate "Confirmation Page".

Thereafter, the confirmation page of your application form will be generated. Take the printout of the "Confirmation Page" in two copies. One of copy of the "Confirmation Page" has to kept safely by the candidate for future requirements.

The "Confirmation Page" will contain a "Registration Number". You are required to note down this registration number for all future correspondence.

5. Take the second copy of Confirmation Page, paste your recent passport size photograph, put your signature & thumb impression (left thumb), parent/ guardian signature at the space provided on the confirmation page. Post the duly signed completed confirmation page along with copy of challan (if the payment is made through bank challan) so as to reach the

**Registrar, UPSEE-2015,  
Uttar Pradesh Technical University,  
IET Campus, Sitapur Road,  
Lucknow – 226021, Uttar Pradesh**

on or before 09<sup>th</sup> April 2015 .

Please do not forget to mention your mailing address, contact mobile phone number at the space provided on the confirmation page.

**18.2 EXAMINATION FEE: The examination fee for online application is as follows:**

<b>For Male Candidates of General/ OBC Category</b>	<b>For SC/ST Category and All Female Candidate</b>
<b>Rs. 800/-</b>	<b>Rs. 400/-</b>

Please note that the bank may additionally charge, service charges plus applicable taxes while making the payment through Credit/Debit card or Challan.

- 18.3 Application can be submitted online from **25<sup>th</sup> Feb 2015** until 10:00 pm of **04<sup>th</sup> April 2015**.

**19. TUITION FEES**

- 19.1 The tuition fees in Govt. aided colleges / institutes at present is Rs. 40,000/- per year for B.Tech./B.Arch., excluding Hostel fees which may be revised by the institute as per State Government orders. However, few courses are under self finance scheme and the details of the fee for such courses can be obtained by respective institutions.
- 19.2 The fees in Private Institutions / Govt. aided Institutions running self finance courses will be as

per the latest notification/orders issued by Govt. of Uttar Pradesh/ Fee Fixation Committee and available on website <http://www.afrcup.in>.

## 20. INSTRUCTIONS FOR FILLING UP THE APPLICATION FORM

(A) Read carefully the entire Information Brochure before filling the Application Form.

(B) GUIDELINES FOR FILLING OF OFFLINE and ONLINE APPLICATION FORM:

Following are the key elements of the application Format which will appear in the application (not necessarily in the order). The exact application Format is available on the website <http://www.upseeuptu2015.in> .

- (1) Place and Mode of Filling of this Application form: Choose Help Desk if you are filling the form offline through any HelpDesk otherwise Choose OTHERS if you are filling this form online from a place of your convenience. In case of offline mode, write the name of the help desk in the space provided in CAPITAL letters.
- (2) Name of the Candidate: Write your FULL NAME (in English Capital Letters) as recorded in your High School or equivalent examination certificate
- (3) Father's Name: Write FULL NAME (in English Capital Letters).
- (4) Mother's Name: Write FULL NAME (in English Capital Letters).
- (5) Date of Birth: Fill your date of birth exactly as recorded in your High School or equivalent examination certificate in dd/mm/yyyy format.
- (6) Nationality: Choose "INDIAN" if your Nationality is Indian otherwise choose "OTHERS"
- (7) Gender: Choose Male or Female or Third Gender (Transgender) whichever is applicable.
- (8) Parent's Domicile: Choose "UP" if at least one of your parents (Father/Mother) is domicile of U.P., Choose "Other than UP" if none of your parents is domicile of U.P. and choose "GDDA" if belongs to clause 8.5 of Information Brochure.
- (9) Address for Communication: Write your complete mailing address with pin code in CAPITAL LETTERS for postal communication.  
Contact Mobile Phone Number: Write your mobile number. This mobile number will be used for communication with you during examination/admission process.  
E-Mail address: Write your E-Mail address. This mail address will be used for communication with you during examination/admission process.
- (10) Qualifying Examination Details:
  - (a) Examination: Choose appropriate option(s) whether you have passed or are appearing in Intermediate (10+2)/ Diploma in Engg./Diploma in Pharmacy/ Diploma in Agriculture Engg./Diploma in Architecture/Graduate
  - (b) Qualifying Examination Passed/ Appearing from college situated in : Choose "UP" if you have passed or are appearing in qualifying examination form UP otherwise choose "Other than UP".
  - (c) Year of Passing / Appearing: Write year of passing or appearing, whichever is applicable, the qualifying examination.
- (11) Subjects in 10 + 2 or Equivalent examination: Choose the subject group in which you have passed / are appearing in, Intermediate or (10+2) or equivalent examination.
- (12) Choice of City of Centre for Entrance Examination in order of preference: Indicate three choices for city of examination from where you wish to appear in UPSEE-2015. Refer to Appendix-E of the Information Brochure for city of examination. Please make sure that your all three choices of city of examination are different.
- (13) Category: Choose applicable category whether you are a candidate of UPGE, UPSC, UPST, UPBC, UPGD, GDSC, GDST, GDBC, GDDA. . Refer to Clause 8.1 to 8.5 of this Information Brochure
- (14) Sub-Category: Choose suitable subcategory depending upon whether you belong to sub-category UPFF, UPAF or UPHC otherwise choose "None" if you do not belong to any of these sub-categories. Refer to Clause 9.2 to 9.9 of this Information Brochure.

- (15) Rural Weightage Claimed: Choose "YES" if you want to claim rural Weightage otherwise choose "NO". Refer to clause 10 of Information Brochure for rural weightage eligibility.
- (16) Seeking Admission For: Choose appropriate option First Year for UG or 2<sup>nd</sup> Year(Lateral Entry) or First Year for PG. Please note that this choice is linked with your qualification and subjects in the qualifying examination. Please refer to clause 3 of the Information Brochure.
- (17) Course(s) APPLIED FOR: Choose appropriate course name(s) to which you are seeking admission.
- (18) Papers in which you wish to appear in UPSEE-2015: Choose appropriate paper(s) in which you wish to appear. Refer Clause 4.4 of the Information Brochure.

Mode of Payment: Choose the appropriate mode (Credit Card / Debit Card / Net Banking or Bank Challan) of making payment of the prescribed examination fee.

Fee Amount in Rupees: Examination fee is Rs 800.00 for male candidates of General/OBC Category and Rs 400.00 for SC/ST candidates and female candidates of all category.

- (20) Photograph: In case of online application, upload scanned image of your recent 3.5 cm x 4.5 cm color photograph in JPEG format. In case of off-line application, provide your recent 3.5 cm x 4.5 cm color photograph to Help Desk.  
The photograph which are not clear will be considered as an attempt of the act of impersonation and application form is liable to be rejected.
- (21) Signature: In case of online application, upload scanned image of your signature in JPEG format. In case of off-line application, provide your signature to the Help Desk.
- (22) Left Thumb Impression: In case of online application, upload scanned image of your Left Thumb Impression in JPEG format. In case of off-line application, provide your Left Thumb Impression to the Help Desk.
- (23) Declaration: Make the declaration by ticking the check box provided. Unless you accept the declaration by ticking the given check box, you will not be able to submit the form.

उत्तर प्रदेश राज्य प्रवेश परीक्षा (यूपीएसईई)-2015  
उत्तर प्रदेश प्राविधिक विश्वविद्यालय, लखनऊ

(बी0टेक0 / बी0टेक0(कृषि

अभि0) / बी0फार्म0 / बी0एच0एम0सी0टी0 / बी0एफ0ए0डी0 / बी0एफ0ए0 / एम0बी0ए0 /  
एम0सी0ए0 / एम0ए0एम0 (डुएल डिग्री0) पाठ्यक्रमों हेतु)

ध्यानाकर्षण: पूर्व पृष्ठों पर अंग्रेजी लिपि में छपे हुए विवरण का हिन्दी रूपान्तरण नीचे दिया जा रहा है लेकिन किसी भी विरोधाभास की स्थिति में अंग्रेजी भाषा में छपे विवरण ही संज्ञान में लिये जायेंगे।

1. केन्द्रीय प्रवेश समिति (सी.ए.बी)

डिग्री स्तरीय अभियंत्रण व अन्य व्यावसायिक संस्थाओं की प्रवेश परीक्षा के आयोजन का कार्य शासनादेश संख्या: 560/सोलह-1-2015-14(54)/2012 दिनांक 13.02.2015 के द्वारा उत्तर प्रदेश प्राविधिक विश्वविद्यालय, लखनऊ को सौंपा गया है। उक्त के क्रम में राज्य प्रवेश परीक्षा के संचालन एवं नियन्त्रण के लिये कुलपति, उत्तर प्रदेश प्राविधिक विश्वविद्यालय, लखनऊ की अध्यक्षता में उत्तर प्रदेश शासन द्वारा केन्द्रीय प्रवेश समिति के गठन की सहमति प्राप्त है। केन्द्रीय प्रवेश समिति को राज्य प्रवेश परीक्षा, जिसे यहाँ यूपीएसईई-2015 (UPSEE-2015) के रूप में कहा गया है, को इसके संचालन के पूर्ण अधिकार प्राप्त है और प्रवेश तथा सीट आवंटन की प्रक्रिया के निर्णय लेने के भी अधिकार प्राप्त हैं। इस समिति का परिक्षेत्र उत्तर प्रदेश प्राविधिक विश्वविद्यालय, लखनऊ से सम्बद्ध समस्त संस्थान है।

2. प्रवेश प्रक्रिया

2.1 प्रथम वर्ष में प्रवेश:

निम्नलिखित पाठ्यक्रमों की उपाधि के लिये उत्तर प्रदेश प्राविधिक विश्वविद्यालय, लखनऊ से संबद्ध संस्थाएं एवं उत्तर प्रदेश के अन्य इंगित विश्वविद्यालयों/संस्थानों के प्रथम वर्ष में शैक्षिक सत्र 2015-16 में प्रवेश हेतु उत्तर प्रदेश प्राविधिक विश्वविद्यालय, लखनऊ द्वारा UPSEE-2015 के नाम से प्रवेश परीक्षा संचालित की जा रही है:

- |   |                                    |
|---|------------------------------------|
| (i) 4 वर्षीय बी0टेक0 / बी0टेक0(कृषि) पाठ्यक्रम  | (v) 4 वर्षीय बी0एफ0ए0डी0 पाठ्यक्रम |
| (ii) 4 वर्षीय बी0 फार्म0 पाठ्यक्रम              | (vi) 4 वर्षीय बी0एफ0ए0 पाठ्यक्रम   |
| (iii) 5 वर्षीय बी0 आर्क0 पाठ्यक्रम              | (vii) 3 वर्षीय एम0सी0ए0 पाठ्यक्रम  |
| (iv) 4 वर्षीय बी0एच0एम0सी0टी0 पाठ्यक्रम         | (viii) 2 वर्षीय एम0बी0ए0 पाठ्यक्रम |
| (viii) 5 वर्षीय इन्टीग्रेटेड एम0ए0एम0 पाठ्यक्रम |                                    |

2.2 सीधे द्वितीय वर्ष में प्रवेश (डिप्लोमा/विज्ञान वर्ग से स्नातक अभ्यर्थियों के लिये)

- (i) पात्र अभ्यर्थी उत्तर प्रदेश प्राविधिक विश्वविद्यालय, लखनऊ से सम्बद्ध महाविद्यालयों में बी0टेक0 (डिप्लोमा एवं बी.एस. सी. स्नातक दोनों) अथवा बी0फार्म0 (डिप्लोमा वर्ग) अथवा एम0सी0ए0 के लिए बी0सी0ए0, बी0एस0सी0 आई0टी0/कम्प्यूटर साइंस पाठ्यक्रमों के द्वितीय वर्ष में सीधे प्रवेश के लिये (विवरण पुस्तिका का प्रस्तर 3.3 देखें) निर्धारित तिथि तक अपना कन्फर्मेशन पत्र भर कर कुलसचिव, उत्तर प्रदेश प्राविधिक विश्वविद्यालय, लखनऊ को प्रेषित करें। ऐसे अभ्यर्थियों को उपर्युक्त प्रवेश परीक्षा में संबंधित प्रश्न पत्रों में परीक्षा देनी होगी।
- (ii) प्रथम वर्ष के स्तर पर स्वीकृत क्षमता के ऊपर अधिकतम 20 प्रतिशत तक ही अनुमन्य पाठ्यक्रमों में इस प्रकार का प्रवेश सीमित रहेगा। बी0एस0सी0 स्नातक का प्रवेश, डिप्लोमा अभ्यर्थी को सीट एलाटमेन्ट के बाद बची हुई सीट पर लिया जायेगा।
- (iii) बी.आर्क./बी.एच.एम.सी.टी./बी.एफ.ए.डी./बी0एफ0ए0/एम.बी.ए./एम.सी.ए./एम.ए.एम. (डुएल डिग्री) पाठ्यक्रमों में द्वितीय वर्ष में सीधा प्रवेश नहीं किया जायेगा।

2.3 विभिन्न स्कीम में प्रथम वर्ष की सीटें

- (i) उत्तर प्रदेश प्राविधिक विश्वविद्यालय, लखनऊ से सम्बद्ध राजकीय/राज्य सहायतायित महाविद्यालयों/संस्थानों के पाठ्यक्रमों में प्रवेश प्रस्तर 2.4 के तहत भरी गयी सीटों को घटाकर केवल UPSEE-2015 से किया जायेगा।
- (ii) उत्तर प्रदेश शासन द्वारा निजी क्षेत्र में स्थापित तकनीकी संस्थानों में 15 प्रतिशत सीटें एन0आर0आई0/मैनेजमेन्ट कोटे के अंतर्गत अभ्यर्थियों के लिए संरक्षित की गई हैं जिन पर प्रवेश की कार्यवाही उत्तर प्रदेश शासन द्वारा निर्धारित प्रक्रिया के अनुसार विश्वविद्यालय द्वारा सुनिश्चित की जायेगी। शेष बची सीटें UPSEE-2015 की आन लाइन काउन्सलिंग के माध्यम से भरी जायेंगी।

(iii) उ0प्र0 शासन द्वारा निजी क्षेत्र की संस्थानों में उपलब्ध कुल सीटों में से 20 प्रतिशत सीटें ब्रोशर में इंगित अर्हताओं के अनुसार JEE-MAINS-2015 की मेरिट के आधार पर काउन्सिलिंग द्वारा भरी जायेंगी। जिसमें से 10 प्रतिशत सीटें उ0प्र0 के डोमोसाइल अभ्यर्थियों की स्टेट मेरिट के आधार पर शासन द्वारा निर्धारित आरक्षण व्यवस्था के अंतर्गत तथा शेष 10 प्रतिशत सीटें आल इण्डिया मेरिट के अभ्यर्थियों से (बिना आरक्षण) भरी जायेंगी।

(iv) इस प्रकार निजी क्षेत्र में स्थापित संस्थानों में उपलब्ध सीटों में से 65 प्रतिशत बी0टेक0/बी0आर्क0 पाठ्यक्रमों की सीटें तथा 85 प्रतिशत अन्य पाठ्यक्रमों की सीटें ऐसे अभ्यर्थियों द्वारा भरी जायेंगी, जिन्होंने उ0प्र0 में स्थित किसी संस्थान से अर्हकारी परीक्षा पास की है अथवा जिनके माता या पिता उ0प्र0 के मूल निवासी हैं। इन अभ्यर्थियों हेतु अनिवार्य अर्हता विवरण पुस्तिका में उपलब्ध है। यदि किसी अभ्यर्थी ने उ0प्र0 राज्य के बाहर स्थित किसी संस्थान से अर्हकारी परीक्षा पास की है तो उसे काउन्सिलिंग के समय अपने माता अथवा पिता का डोमोसाइल (मूल निवास) प्रमाण पत्र प्रस्तुत करना अनिवार्य होगा।

**2.4 अप्रवासी भारतीय अभ्यर्थियों का प्रथम वर्ष में प्रवेश:** अप्रवासीय भारतीय अभ्यर्थी जो प्रवेश की निर्धारित अर्हता रखते हैं, राजकीय/राज्य सहायतायित इन्जीनियरिंग कालेजों एवं निजी क्षेत्र के संस्थानों जिन्हें इस आशय का अभातशिप का अनुमोदन प्राप्त है, में कुल उपलब्ध सीटों की अधिकतम 5 प्रतिशत सीटों पर मेरिट के आधार पर सीधे प्रवेश ले सकते हैं, जो शासन द्वारा निर्गत नवीनतम सुसंगत निर्देशों पर निर्भर करेगा। विस्तृत विवरण मई 2015 में विभिन्न समाचार पत्रों तथा विश्वविद्यालय के वेबसाइट [www.uptu.ac.in](http://www.uptu.ac.in), [www.upseeuptu2015.in](http://www.upseeuptu2015.in) पर प्रकाशित की जायेगी। पात्रता की शर्तें अंग्रेजी अंश के पैरा 3.4 में देखें। इन अभ्यर्थियों को यूपीएसईई-2015 की प्रवेश परीक्षा में सम्मिलित होने की आवश्यकता नहीं है। यद्यपि बी0आर्क0 पाठ्यक्रम हेतु अभ्यर्थियों को काउन्सिलिंग तिथि को एप्टीट्यूट टेस्ट में सम्मिलित होना होगा।

**2.5 कश्मीरी विस्थापितों के लिए प्रवेश:** कश्मीरी विस्थापित अभ्यर्थियों को अभातशिप एवं उ0 प्र0 शासन के नवीनतम शासनादेश के अनुसार समस्त संस्थानों के प्रथम वर्ष में सीधा प्रवेश दिया जा सकेगा। इस प्रकार के प्रवेश स्वीकृत इनटेक से ऊपर किया जायेगा और प्रत्येक संस्था में मात्र एक प्रवेश तक सीमित रहेगा। विस्तृत विवरण मई 2015 में विभिन्न समाचार पत्रों तथा विश्वविद्यालय के वेबसाइट पर प्रकाशित की जायेगी। इन अभ्यर्थियों को यूपीएसईई-2015 की प्रवेश परीक्षा में सम्मिलित होने की आवश्यकता नहीं है।

**2.6 विदेशी नागरिक/भारतीय मूल के व्यक्ति/खाड़ी देशों में कार्यरत कार्मिकों के बच्चों के प्रवेश:**

कृपया अंग्रेजी अंश पैरा 2.6 में देखें।

**2.7 मेरिट के आधार पर आर्थिक रूप से कमजोर मेरिटोरियस (गुणी) अभ्यर्थियों हेतु शुल्क मुक्त सीटों पर प्रवेश:**

अभातशिप के नोटीफिकेशन के अनुसार आर्थिक रूप से कमजोर मेरिटोरियस (गुणी) अभ्यर्थियों हेतु उत्तर प्रदेश प्राविधिक विश्वविद्यालय, लखनऊ से सम्बद्ध सभी संस्थानों के बी0टेक0/बी0आर्क0/बी0फार्म0/बी0एच0एम0सी0टी0/बी0एफ0ए0डी0/ बी0एफ0ए0 कोर्स में शुल्क मुक्त सीटें भी उपलब्ध हैं। इन सीटों पर प्रवेशित अभ्यर्थियों से शिक्षण शुल्क नहीं लिया जायेगा। ये शुल्क मुक्त सीटें स्वीकृत प्रवेश क्षमता के अतिरिक्त होंगी तथा प्रत्येक पाठ्यक्रम में स्वीकृत प्रवेश क्षमता की अधिकतम 5 प्रतिशत तक सीमित होंगी। आर्थिक रूप से कमजोर अभ्यर्थियों को काउन्सिलिंग के समय प्रपत्र 12 में आय प्रमाण पत्र प्रस्तुत करना अनिवार्य होगा।

**3. पात्रता की शर्तें:**

**3.1 बी0टेक0/बी0फार्म0/बी0आर्क0/बी0एच0एम0सी0टी0/बी0एफ0ए0डी0/ बी0एफ0ए0 पाठ्यक्रमों के प्रथम वर्ष में प्रवेश के लिए प्रवेश परीक्षा में बैठने हेतु पात्रता की शर्तें:**

(i) उत्तर प्रदेश प्राविधिक विश्वविद्यालय द्वारा संचालित राज्य प्रवेश परीक्षा-2015 में वे अभ्यर्थी सम्मिलित हो सकते हैं जिन्होंने अर्हकारी (इण्टरमीडिएट, 10+2 अथवा समकक्ष) परीक्षा में निम्न तालिका के अनुसार अर्हकारी विषय लिए हों:-

पाठ्यक्रम	अनिवार्य विषय	निम्न में से कोई एक विषय
बी0टेक0	भौतिक शास्त्र एवं गणित	रसायन शास्त्र/बायो-टेक्नोलॉजी/ जीव विज्ञान/टेक्निकल वोकेशनल विषय
बी0टेक0 (बायो-टेक्नोलॉजी)	(i) भौतिक शास्त्र एवं (ii) गणित अथवा जीवविज्ञान	रसायन शास्त्र/बायो-टेक्नोलॉजी/ टेक्निकल वोकेशनल विषय
बी0फार्म0	भौतिक शास्त्र एवं रसायन शास्त्र	गणित/बायो-टेक्नोलॉजी/जीव विज्ञान /टेक्निकल वोकेशनल विषय
बी0आर्क0	गणित एवं भौतिक शास्त्र,	रसायन शास्त्र/कम्प्यूटर साइंस/जीव विज्ञान /इंजी0 ड्राइंग/टेक्निकल वोकेशनल विषय

बी0टेक0 (कृषि प्रौद्योगिकी)	कृषि संबंधित विषय *
बी0एच0एम0सी0टी0 / बी0एफ0ए0डी0 / बी0एफ0ए0	कोई भी विषय

- (ii) बी0टेक0/बी0फार्म प्रथम वर्ष में प्रवेश हेतु अभ्यर्थी को किसी मान्यता प्राप्त बोर्ड या विश्वविद्यालय से अर्हकारी इण्टरमीडिएट अथवा 10+2 अथवा समकक्ष परीक्षा में स्पष्ट रूप से उत्तीर्ण होते हुए क्लाज 3.1(i) की तालिका में उल्लिखित प्रत्येक अनिवार्य एवं एक ऐच्छिक विषय में बिना ग्रेस के 45 प्रतिशत अंकों (अनिवार्य एवं ऐच्छिक विषय मिलाकर) के साथ (अनुसूचित जाति/जनजाति हेतु 40 प्रतिशत) उत्तीर्ण होना अनिवार्य है।
- (iii) बी0एच0एम0सी0टी0/बी0एफ0ए0डी0/बी0एफ0ए0 प्रथम वर्ष में प्रवेश हेतु अभ्यर्थी को किसी मान्यता प्राप्त बोर्ड या विश्वविद्यालय से अर्हकारी इण्टरमीडिएट अथवा 10+2 अथवा समकक्ष परीक्षा में 45 प्रतिशत अंकों के साथ (अनुसूचित जाति/जनजाति हेतु 40 प्रतिशत) बिना ग्रेस के स्पष्ट रूप से उत्तीर्ण होना अनिवार्य है।
- (iv) बी0आर्क0 प्रथम वर्ष में प्रवेश हेतु अभ्यर्थी को किसी मान्यता प्राप्त बोर्ड या विश्वविद्यालय से अर्हकारी इण्टरमीडिएट, 10+2 अथवा समकक्ष परीक्षा में (बिना ग्रेस के) न्यूनतम 50 प्रतिशत अंकों के साथ उत्तीर्ण होते हुए तथा क्लाज 3.1(i) की तालिका में उल्लिखित प्रत्येक अनिवार्य एवं ऐच्छिक विषयों में बिना ग्रेस के स्पष्ट रूप से उत्तीर्ण होना अनिवार्य है।
- वे अभ्यर्थी भी बी0आर्क0 प्रथम वर्ष में प्रवेश हेतु पात्र होंगे जिन्होंने राज्य/केन्द्र सरकार द्वारा मान्यता प्राप्त तीन वर्षीय आर्किटेक्चर (10+3) डिप्लोमा परीक्षा में 50 प्रतिशत प्राप्तांकों के साथ उत्तीर्ण किया हों। ऐसे अभ्यर्थियों को प्रवेश परीक्षा में बी0आर्क0 के लिए निर्धारित पेपर 4 (प्रस्तर 4.3) में बैठना होगा।
- (v)\* ऐसे सभी अभ्यर्थी जो बी0टेक0 पाठ्यक्रम के पात्र हैं वे बी0टेक0 (कृषि अभि0) के लिए भी पात्र हैं।

**3.2 एम0बी0ए0/एम0सी0ए0/एम0ए0एम0 (डुएल डिग्री) पाठ्यक्रमों के प्रथम वर्ष में प्रवेश के लिए प्रवेश परीक्षा में बैठने हेतु पात्रता की शर्तें:** कृपया अंग्रेजी अंश देखें।

**3.3 बी0टेक0/बी0फार्म0/एम0सी0ए0 के द्वितीय वर्ष में प्रवेश के लिए प्रवेश परीक्षा में बैठने हेतु पात्रता की शर्तें:**

- (i) द्वितीय वर्ष में बी0आर्क0/बी0एच0एम0सी0टी0/बी0एफ0ए0डी0/बी0एफ0ए0/एम0बी0ए0 पाठ्यक्रम में सीधे प्रवेश नहीं दिया जायेगा।
- (ii) इंजीनियरिंग डिप्लोमाधारक अथवा विज्ञान स्नातक जिन्होंने 10+2 गणित विषय के साथ उत्तीर्ण किया हो बी0टेक0 पाठ्यक्रमों के द्वितीय वर्ष में तथा बी0सी0ए0 या बी0एस0सी0आई0टी0/कम्प्यूटर साइंस डिग्री धारक एम0सी0ए0 द्वितीय वर्ष में सीधा प्रवेश मात्र यू0पी0टी0यू0, लखनऊ से संबद्ध संस्थानों/महाविद्यालयों में खुला है।
- (iii) ऐसे अभ्यर्थी, जिन्होंने उ0प्र0 में स्थित किसी संस्थान से तीन वर्षीय इंजीनियरिंग डिप्लोमा 45 प्रतिशत अंकों सहित (अनुसूचित जाति/जनजाति हेतु 40 प्रतिशत) उत्तीर्ण किया है अथवा जिनके माता पिता उ0प्र0 के मूल निवासी हैं तथा जिन्होंने उ0प्र0 बोर्ड आफ टेक्निकल एजुकेशन से मान्यता प्राप्त किसी बोर्ड/संस्थान से तीन वर्षीय इंजी0 डिप्लोमा, (कृषि इंजी0/फार्मेसी/आर्किटेक्चर शाखाओं को छोड़कर) की किसी भी शाखा में न्यूनतम 45 प्रतिशत अंकों सहित (अनुसूचित जाति/जनजाति हेतु 40 प्रतिशत) उत्तीर्ण किया है, इन्जीनियरिंग/टेक्नोलॉजी की किसी भी शाखाओं हेतु द्वितीय वर्ष में प्रवेश हेतु पात्र है।
- (iv) ऐसे अभ्यर्थी, जिन्होंने उ0प्र0 में स्थित किसी संस्थान से तीन वर्षीय इंजीनियरिंग डिप्लोमा कृषि शाखा से 45 प्रतिशत अंकों सहित (अनुसूचित जाति/जनजाति हेतु 40 प्रतिशत) उत्तीर्ण किया है अथवा जिनके माता पिता उ0प्र0 के मूल निवासी हैं तथा जिन्होंने उ0प्र0 बोर्ड आफ टेक्निकल एजुकेशन से मान्यता प्राप्त किसी बोर्ड/संस्थान से तीन वर्षीय इंजी0 डिप्लोमा कृषि शाखा में न्यूनतम 45 प्रतिशत अंकों सहित (अनुसूचित जाति/जनजाति हेतु 40 प्रतिशत) उत्तीर्ण किया है, कृषि इंजी0 शाखा के द्वितीय वर्ष में प्रवेश हेतु पात्र हैं।
- (v) ऐसे अभ्यर्थी, जिन्होंने विज्ञान में तीन वर्षीय विज्ञान स्नातक परीक्षा एवं 10+2 में गणित एक विषय के साथ किसी मान्यता प्राप्त विश्वविद्यालय एवं बोर्ड से न्यूनतम कुल 45 प्रतिशत प्राप्तांकों के साथ (अनुसूचित जाति/जनजाति हेतु 40 प्रतिशत) उत्तीर्ण की है, भी इंजीनियरिंग/टेक्नोलॉजी की किसी भी शाखाओं हेतु द्वितीय वर्ष में प्रवेश हेतु पात्र हैं।
- (vi) ऐसे अभ्यर्थी, जिन्होंने उ0प्र0 में स्थित किसी संस्थान से फार्मेसी में दो/तीन वर्षीय डिप्लोमा 45 प्रतिशत अंकों सहित (अनुसूचित जाति/जनजाति हेतु 40 प्रतिशत) उत्तीर्ण किया है अथवा जिनके माता पिता उ0प्र0 के मूल निवासी हैं तथा जिन्होंने उ0प्र0 बोर्ड आफ टेक्निकल एजुकेशन से मान्यता प्राप्त किसी बोर्ड/संस्थान से डिप्लोमा, फार्मेसी में

न्यूनतम 45 प्रतिशत अंकों सहित (अनुसूचित जाति/जनजाति हेतु 40 प्रतिशत) उत्तीर्ण किया है, बी0फार्म0 द्वितीय वर्ष में प्रवेश हेतु पात्र है।

(vii) उत्तर प्रदेश प्राविधिक विश्वविद्यालय से सम्बद्ध एम0सी0ए0 पाठ्यक्रमों में द्वितीय वर्ष में प्रवेश हेतु बी0सी0ए0 अथवा बी0एस0सी0 (आई0टी0/कम्प्यूटर साइंस) डिग्री धारक जिन्होंने ए0आई0यू0 से मान्यता प्राप्त किसी संस्थान से न्यूनतम 50 प्रतिशत (अनुसूचित जाति/अनु0जनजाति के लिए 45 प्रतिशत) अंको से उत्तीर्ण किया हो तथा जिनके पास इण्टर मीडिएट अथवा स्नातक स्तर पर गणित एक विषय हो, प्रवेश के पात्र होंगे।

**3.4 अप्रवासीय भारतीय अभ्यर्थियों के प्रवेश हेतु अर्हता:** कृपया अंग्रेजी अंश देखें।

**3.5 विदेशी नागरिक/भारतीय मूल के व्यक्ति/खाडी देशों के कार्मिकों के बच्चों के प्रवेश हेतु अर्हता:** कृपया अंग्रेजी अंश देखें।

**3.6 निजी संस्थानों में प्रथम वर्ष में एन0आर0आई0/मैनेजमेन्ट कोटा/काउन्सिलिंग के उपरान्त रिक्त सीटों पर प्रवेश हेतु अर्हताएं:**

कृपया अंग्रेजी अंश देखें।

**3.7 निजी संस्थानों में द्वितीय वर्ष में काउन्सिलिंग के उपरान्त रिक्त सीटों पर प्रवेश अर्हताएं:**

कृपया अंग्रेजी अंश देखें।

#### **4. परीक्षा योजना:**

UPSEE-2015 में वस्तुनिष्ठ प्रश्नपत्र के रूप में कुल 12 प्रश्न पत्र होंगे (प्रश्नपत्र 4 का भाग 'ख' को छोड़कर)। उक्त प्रवेश परीक्षा में सम्मिलित होने के लिए प्रश्न पत्र एवं विषयों का चुनाव अभ्यर्थी इस विवरण पुस्तिका के प्रस्तर-4.3 में बने सारिणी के वर्णन के अनुसार प्रस्तर-3 में दर्शायी गई अर्हता सुनिश्चित करते हुए करें।

#### **4.1 उत्तर पुस्तिका का मूल्यांकन एवं निगेटिव मार्किंग:**

(i) सभी वस्तुनिष्ठ प्रश्नों के उत्तर विशेष प्रकार से बनायी गयी ओ0 एम0 आर0 शीट पर देना होगा। प्रत्येक प्रश्न का केवल एक सही उत्तर दिया जाना है।

(ii) वस्तुनिष्ठ प्रश्न पत्र में प्रत्येक प्रश्न के सही उत्तर पर 4 अंक दिये जायेंगे। प्रत्येक प्रश्न में एक से अधिक गोलों को रंगने पर उत्तर गलत माना जायेगा एवं इसके लिए कोई भी अंक देय नहीं होगा।

(iii) वस्तुनिष्ठ प्रकार के प्रश्नपत्रों में ऋणात्मक मूल्यांकन (**Negative Marking**) नहीं होगा। यद्यपि अभ्यर्थी द्वारा दिये गये गलत उत्तरों का एक रिकार्ड अलग से रखा जायेगा।

(iv) प्रश्नों के उत्तर को ओ0एम0आर0 शीट पर केवल काली/नीली बाल प्वाइन्ट कलम द्वारा रंगा जायेगा। उत्तर ओ0एम0आर0 शीट पर जो भी विवरण अभ्यर्थी द्वारा अंकित किया जायेगा उसे ही अन्तिम मानते हुए उत्तर से संबंधित ओ0 एम0 आर0 शीट का मूल्यांकन किया जायेगा।

**4.2 प्रवेश परीक्षा के लिए प्रश्नपत्र एवं विषय:** कृपया अंग्रेजी अनुवाद के पैरा 4.2 देखें।

**4.3 विभिन्न पाठ्यक्रमों के लिए प्रश्नपत्र:** कृपया अंग्रेजी अनुवाद के पैरा 4.3 देखें।

**5. परीक्षा कार्यक्रम:** कृपया अंग्रेजी अंश देखें।

**6. सिलेबस (पाठ्यक्रम):** प्रवेश परीक्षा-2015 का सिलेबस परिशिष्ट 'ए' पर दिये गये हैं।

#### **7. मूल्यांकन एवं परीक्षा परिणाम**

**7.1** UPSEE-2015 परीक्षा परिणाम उत्तरों की कुंजी के साथ दिनांक 20.05.2015 को या इसके पूर्व घोषित किया जायेगा।

**7.2** राज्य प्रवेश परीक्षा-2015 में अभ्यर्थियों के द्वारा प्राप्त अंकों के आधार पर सभी पाठ्यक्रमों के लिए योग्यता सूची अलग-अलग तैयार की जायेगी। मेरिट पोजीशन एवं अंक तालिका वेबसाइट पर परीक्षाफल घोषित होने के उपरान्त उपलब्ध होगी।

**7.3** बराबर अंक पाने वाले अभ्यर्थियों की आपसी योग्यता का निर्धारण निम्नलिखित प्रकार से किया जायेगा:—

(क) **सर्वप्रथम** दिये गये गलत उत्तरों की संख्या के आधार पर अर्थात् ऐसे अभ्यर्थी जिसके गलत उत्तरों की संख्या कम है वे वरीयताक्रम में ऊपर रखे जायेंगे।



(ख) तत्पश्चात्,

**बी0टेक0** – पेपर 1 के क्रमशः गणित, भौतिकी, रसायन विज्ञान अनुभाग के अंक के आधार पर एवं समान होने पर उम्र\*

**बी0फार्म0** –पेपर 2 के क्रमशः जीव विज्ञान, रसायन विज्ञान, भौतिकी अनुभाग के अंक के आधार पर एवं समान होने पर उम्र\*

**बी0आर्क0** – पेपर 4 के क्रमशः ड्राइंग एप्टीट्यूड, गणित एवं एस्थेटिक सेन्सटिविटी अनुभाग के अंक के आधार पर एवं समान होने पर उम्र\*

**बी0टेक0(कृषि इन्जी0)** –पेपर 3 के क्रमशः एजी-1, एजी-2, एजी-3 अनुभाग के अंक के आधार पर एवं समान होने पर उम्र\*

**बी0टेक0(बायोटेक इन्जी0)**– बी0टेक0/बी0फार्म0 की भांति

**बी0एच0एम0सी0टी0/बी0एफ0ए0डी0/बी0एफ0ए0/एम0बी0ए0/एम0सी0ए0/डिप्लोमाधारी अथवा विज्ञान वर्ग के स्नातक** – केवल उम्र\* के आधार पर

\* अधिक उम्र वाला अभ्यर्थी बराबर मेरिट की दशा में ऊपर रखा जायेगा।

**7.4** प्रवेश परीक्षा में 25 प्रतिशत (अनुसूचित जाति/जनजाति के लिए 20 प्रतिशत) प्राप्त करने वाले अभ्यर्थी सफल माने जायेंगे।

**7.5** विभिन्न संस्थाओं में उपलब्ध इनटेक एवं सीट के आधार पर समाचार पत्रों एवं इन्टरनेट के माध्यम से सफल अभ्यर्थियों के अलग-अलग समय पर काउन्सलिंग के लिए बुलाया जायेगा। परन्तु आवंटन सीटों की उपलब्धता पर निर्भर होगा। सफल अभ्यर्थी को चाहिए कि वेबसाइट [www.uptu.ac.in](http://www.uptu.ac.in), [www.upseeuptu2015.in](http://www.upseeuptu2015.in) से काउन्सलिंग कार्यक्रम डाउनलोड कर काउन्सलिंग के लिए उपस्थित हो जायें।

## 8. स्थायी निवास आवश्यकतायें

**8.1** ऐसे अभ्यर्थी जिन्होंने अर्हकारी परीक्षा उत्तर प्रदेश में स्थित किसी संस्थान से पास की है तथा जिन्होंने कोई आरक्षित श्रेणी नहीं मांगी है, सभी संस्थानों के सभी पाठ्यक्रमों में उपलब्ध सामान्य (ओपेन) सीटों पर प्रवेश हेतु पात्र हैं, (कोई प्रमाण पत्र आवश्यक नहीं)। **[UPGE]**

**8.2** ऐसे अभ्यर्थी, जिन्होंने अर्हकारी परीक्षा उत्तर प्रदेश में स्थित किसी संस्थान से पास की हैं तथा उत्तर प्रदेश के अधिवासी हैं तथा उत्तर प्रदेश की अनुसूचित जाति/अनुसूचित जनजाति/उत्तर प्रदेश के अन्य पिछड़ावर्ग श्रेणी में आते हैं, सभी संस्थानों के सभी पाठ्यक्रमों में उनकी श्रेणी में उपलब्ध आरक्षित सीटों पर प्रवेश हेतु पात्र हैं। (प्रमाण पत्र संख्या 1 अथवा 2 आवश्यक)। अनुसूचित जाति, अनु. जनजाति एवं अन्य पिछड़े वर्ग के अन्तर्गत आने वाली जातियों की सूची उ.प्र. अधिनियम 1976 एवं शासनादेश संख्या 4/1/2001-टी.सी./का-2/2002 दिनांक 19/09/2002 अनुलग्नक-एफ पर संलग्न है। **[UPSC/UPST/UPBC]**

**8.3** ऐसे अभ्यर्थी, जिन्होंने अर्हकारी परीक्षा उत्तर प्रदेश के बाहर स्थित किसी संस्थान से पास की हैं तथा जिनके माता अथवा पिता उत्तर प्रदेश के मूल/स्थायी निवासी हैं तथा जिन्होंने किसी आरक्षित श्रेणी की मांग नहीं की है, उत्तर प्रदेश में स्थित संस्थानों के पाठ्यक्रमों में उपलब्ध सामान्य (अनारक्षित) सीटों पर प्रवेश हेतु पात्रता रखते हैं। (ऐसे अभ्यर्थियों को अपने पिता/माता का मूल/स्थायी निवास प्रमाण पत्र संख्या 3 काउन्सलिंग के समय प्रस्तुत करना आवश्यक है)। **[UPGD]**

**8.4** ऐसे अभ्यर्थी, जिन्होंने अर्हकारी परीक्षा उत्तर प्रदेश के बाहर स्थित किसी संस्थान से पास की हैं तथा जिनके माता पिता उत्तर प्रदेश के अधिवासी हैं तथा जो उत्तर प्रदेश की अनुसूचित जाति/अनुसूचित जनजाति/उत्तर प्रदेश के अन्य पिछड़ा वर्ग के श्रेणी के अन्तर्गत आते हैं, उत्तर प्रदेश में स्थित संस्थानों के पाठ्यक्रमों में उनकी आरक्षित श्रेणी में उपलब्ध सीटों पर प्रवेश हेतु पात्र हैं। (ऐसे अभ्यर्थियों को अपने पिता/माता का मूल/स्थायी निवास प्रमाण पत्र संख्या 3; तथा प्रमाण पत्र संख्या 1 अथवा 2 आवश्यक है)। अनुसूचित जाति, अनु. जनजाति एवं अन्य पिछड़े वर्ग के अन्तर्गत आने वाली जातियों की सूची उ.प्र. अधिनियम 1976 एवं शासनादेश संख्या 4/1/2001-टी.सी./का-2/2002 दिनांक 19/09/2002 अनुलग्नक-एफ पर संलग्न है। **[GDSC/GDST/GDBC]**

**8.5** निम्न प्रकरणों में माता/पिता की अधिवास आवश्यकतायें शिथिल की गयी हैं और इस प्रकार के अभ्यर्थियों को प्रवेश अनुमन्य किया गया है:

(i) सेवा निवृत्त/युद्ध में अपंगता के पश्चात प्रवेश परीक्षा तिथि को उत्तर प्रदेश में निवास करने वाले रक्षा कर्मचारी अथवा युद्ध में मारे जाने के पश्चात प्रवेश परीक्षा तिथि को उत्तर प्रदेश में निवास करने वाले रक्षा कर्मचारियों के आश्रित ऐसे रक्षा कर्मचारियों के पुत्र/पुत्रियों को (प्रमाण पत्र संख्या 5 अनिवार्य है)।

(ii) ऐसे रक्षा कर्मचारी, जो उत्तर प्रदेश के अधिवासी नहीं हैं, परन्तु प्रवेश परीक्षा तिथि को उत्तर प्रदेश में नियुक्त है (प्रमाण पत्र संख्या 5 अनिवार्य है)।

उत्तर प्रदेश कैंडर के अखिल भारतीय सेवा के कर्मचारी के पुत्र/पुत्री (प्रमाण पत्र संख्या 11 अनिवार्य है)। इस वर्ग के अभ्यर्थी **UPGD** के समान माने जायेंगे। **[GDDA]**  
सभी प्रमाण पत्रों, का प्रारूप परिशिष्ट-डी पर उपलब्ध है।

## 9. सीटों का आरक्षण

### 9.1 ऊर्ध्वधर आरक्षण (श्रेणी):

		प्रत्येक पाठ्यक्रम में:
(क)	उ0 प्र0 की अनुसूचित जाति	: समस्त प्रवेश सीटों का 21 प्रतिशत
(ख)	उ0 प्र0 की अनुसूचित जनजाति	: समस्त प्रवेश सीटों का 02 प्रतिशत
(ग)	उ0 प्र0 के अन्य पिछड़े वर्ग	: समस्त प्रवेश सीटों का 27 प्रतिशत

### 9.2 क्षैतिज आरक्षण (उप श्रेणी):

		प्रत्येक पाठ्यक्रम में:
(क)	उत्तर प्रदेश के स्वतन्त्रता सेनानियों के आश्रितों के लिए	<b>(कोड UPFF)</b> : समस्त सीटों का अधिकतम 02 प्रतिशत
(ख)	उत्तर प्रदेश के सेवा निवृत्त अथवा अपंग रक्षा कर्मियों अथवा युद्ध में मारे गये रक्षा-कर्मियों अथवा उत्तर प्रदेश में तैनात रक्षा-कर्मियों के पुत्र-पुत्रियों को अथवा उ.प्र. के अधिवासी ऐसे रक्षाकर्मियों को जो परीक्षा तिथि को उ.प्र. के बाहर नियुक्त हैं।	<b>(कोड UPAF)</b> : समस्त सीटों का अधिकतम 05 प्रतिशत
(ग)	शारीरिक रूप से निःशक्त जनों के लिए	<b>(कोड UPHC)</b> : समस्त सीटों का अधिकतम 03 प्रतिशत
(घ)	महिलाओं के लिए	<b>(कोड UPGL)</b> : समस्त सीटों का अधिकतम 20 प्रतिशत

9.3 क्षैतिज आरक्षणों में मात्र एक आरक्षण ही अभ्यर्थी ले सकेगा। विस्तृत विवरण हेतु अंग्रेजी वर्जन देखें।

9.4 आवेदन पत्र (कन्फर्मेशन पेज) में अभिलिखित श्रेणी एवं उपश्रेणी में परीक्षाफल घोषित होने के उपरान्त किसी भी प्रकार का परिवर्तन का अनुरोध मान्य नहीं होगा।

9.5 Appendix-D में दिये गये प्रारूपों पर संबंधित प्रमाण पत्र श्रेणी/उपश्रेणी के प्रमाण स्वरूप कौंसलिंग के समय प्रेषित करना होगा अन्यथा अभ्यर्थी सामान्य श्रेणी का माना जायेगा।

9.6 प्रस्तर 9.2 ख के अन्तर्गत अनुमन्य अभ्यर्थियों को क्षैतिज आरक्षण का लाभ प्रदान किये जाने के लिए तैनाती/निवास की तिथि प्रवेश परीक्षा की तिथि मानी जायेगी।

9.7 उपश्रेणी में आरक्षण के लिये प्रस्तर 9.2 (क), (ख) एवं (ग) के संबंधित क्रमशः प्रमाण पत्र संख्या 4, 5 एवं 6 आवश्यक होंगे।

9.8 शुल्क मुक्त सीटों की संस्थानवार उपलब्धता काउन्सिलिंग के समय प्रदर्शित की जायेगी।

9.9 **UPGL** उप श्रेणी का लाभ महिला अभ्यर्थियों को स्वतः ही मिल जायेगा।

## 10. उत्तर प्रदेश के ग्रामीण क्षेत्र के अभ्यर्थियों के लिये अधिमान:

10.1 सामान्य श्रेणी के ऐसे अभ्यर्थी जिन्होंने अर्हकारी परीक्षा उत्तर प्रदेश के किसी ग्रामीण क्षेत्र में स्थित संस्थान से पास की है, का UPSEE-2015 से बी0टेक0/बी0फार्म0/बी0आर्क0/बी0एच0एम0सी0टी0/बी0एफ0ए0डी0/बी0एफ0ए0

10.2 इसके लिए उक्त संस्थान ग्राम पंचायत के कार्यक्षेत्र में स्थित हो तथा उक्त क्षेत्र औद्योगिक विकसित क्षेत्र न हो। इसके लिए अभ्यर्थी को प्रमाण पत्र संख्या-7 काउन्सिलिंग के समय प्रस्तुत करना होगा, जो विवरण पुस्तिका के परिशिष्ट 'डी' में दिया गया है।

10.3 ऐसे किसी भी अभ्यर्थी को यह अधिमान नहीं दिया जायेगा, जो अन्य किसी प्रकार के आरक्षण की मांग करते हैं। द्वितीय वर्ष में सीधे प्रवेश पाने के लिए अधिमान का लाभ नहीं दिया जायेगा।

10.4 प्रस्तर- 8.3 में परिभाषित UPGD वर्ग के अभ्यर्थियों को यह अधिमान अनुमन्य नहीं है।

11. **शारीरिक नाप तौल:** कृपया अंग्रेजी अंश देखें।

12. **परीक्षा शहर/केन्द्र:** कृपया अंग्रेजी अंश देखें।

13. **प्रवेश पत्र :**

13.1 अभ्यर्थियों को परीक्षा के लिए प्रवेश पत्र वेबसाइट पर उपलब्ध रहेगा। वेबसाइट से डाउनलोडेड प्रवेश पत्र वैध माना जायेगा। अभ्यर्थियों से अपेक्षा है कि वे अपने प्रवेश पत्र पर इंगित श्रेणी, उप श्रेणी, ग्रामीण अधिमान, लिंग, नाम एवं

- पिता का नाम आदि की जांच कर लें एवं यदि इसमें किस प्रकार की त्रुटि परिलक्षित है तो अभ्यर्थी परीक्षा दिवस पर संबंधित परीक्षा केन्द्र अधीक्षक से सम्पर्क कर **फार्म नम्बर-9** पर उक्त त्रुटि के सुधार हेतु आवेदन करें। प्रवेश पत्र डाक द्वारा अलग से नहीं भेजा जायेगा **(महत्वपूर्ण)**।
- 13.2** ऐसे अभ्यर्थी जिनको प्रवेश पत्र वेबसाइट पर नहीं मिला है के लिए प्रत्येक परीक्षा शहर में जुप्लीकेट प्रवेश पत्र निर्गत करने हेतु एक नोडल केन्द्र की स्थापना की जायेगी, जहाँ से जुप्लीकेट प्रवेश पत्र दिनांक 17 अप्रैल, 2015 (प्रातः 10.00 से सायं 5.00 बजे तक) को बनाये जायेंगे। लेकिन परीक्षा की दिनांकों में ऐसा नहीं किया जायेगा। किसी भी अभ्यर्थी को बिना प्रवेश पत्र के परीक्षा में सम्मिलित होने की अनुमति नहीं दी जायेगी
- 13.3** इस हेतु अभ्यर्थी उस शहर के नोडल केन्द्र पर सम्पर्क करें जो उसने आवेदन पत्र में परीक्षा केन्द्र के लिए प्रथम परीक्षा शहर भरा है। अभ्यर्थी अपने साथ (i) आवेदन पत्र में लगाये गये फोटो के समान दो पासपोर्ट आकार के श्वेत/श्याम फोटो (ii) 25.00 शुल्क (iii) ओ0एम0आर0 आवेदन पत्र संख्या/आन लाइन आवेदन का रिफरेंस नम्बर, एवं (iv) आवेदन पत्र जमा करने/भेजने का प्रमाण (स्पीड पो0/रजि0 पोस्ट की रसीद) लेकर नोडल केन्द्र में जायें।
- 13.4** यदि कोई अभ्यर्थी प्रवेश पत्र Download करने में असफल है, तो Helpline जो Website वेबसाइट पर प्रदर्शित है से 15 अप्रैल, 2015 तक सम्पर्क करने का कष्ट करें।
- 13.5** यह दलील कि अभ्यर्थी को UPSEE-2015 परीक्षा में बैठने की सूचना या अनुमति नहीं प्राप्त हुई है, शुल्क की वापसी या किसी अन्य क्षतिपूर्ति के लिये मान्य नहीं होगी। उत्तर प्रदेश प्राविधिक विश्वविद्यालय, लखनऊ को यह अधिकार है कि यदि ऐसे अभ्यर्थी को, जो UPSEE-2015 परीक्षा में बैठने का पात्र नहीं है, त्रुटिवश प्रवेश पत्र जारी हो गया है और उसने परीक्षा के केन्द्र अधीक्षक के सम्मुख उसे प्रस्तुत भी किया है, तो भी उसे परीक्षा में बैठने की दी गयी अनुमति वापस ले ली जायेगी।
- 13.6** प्रवेश पत्र में किसी संशोधित एडमिट कार्ड वेबसाइट **www.uptu.ac.in**, **www.upseeuptu2015.in** से परीक्षा में बैठने से पूर्व डाउन लोड कर लें।
- 13.7** चूँकि सफल अभ्यर्थियों को काउन्सिलिंग एवं प्रवेश के समय प्रवेश पत्र की आवश्यकता होगी। अतः वे उसे अपने पास तब तक सुरक्षित रखें जब तक UPSEE-2015 से प्रवेश पूर्ण न हो जाय।
- 14. परीक्षा माध्यम तथा मूल्यांकन पद्धति:** कृपया अंग्रेजी अनुवाद का पैरा 14 देखें।
- 15. काउन्सिलिंग:**
- 15.1** उत्तर प्रदेश में स्थित विभिन्न केन्द्रों पर कम्प्यूटर के माध्यम से आन लाइन काउन्सिलिंग की जायेगी। अभ्यर्थियों को निर्धारित केन्द्र पर काउन्सिलिंग हेतु उपस्थित होना होगा। आन लाइन काउन्सिलिंग से संबंधित विवरण/प्रक्रिया, काउन्सिलिंग दिनांक, काउन्सिलिंग केन्द्रों की सूचना, काउन्सिलिंग कार्यक्रम की सूचना काउन्सिलिंग पत्र के माध्यम से दी जायेगी। उक्त विवरण वेबसाइट **www.uptu.ac.in**, **www.upseeuptu2015.in** पर उपलब्ध रहेगा।
- 15.2** आन लाइन काउन्सिलिंग हेतु अभ्यर्थियों को उनकी स्टेट रैंक (कम्बाइन्ड जनरल रैंक) के आधार पर बुलाया जायेगा चाहे वे आरक्षित श्रेणी के भी हों। यद्यपि उन्हें उनकी आरक्षित श्रेणी की मेरिट का लाभ सीट आवंटन के समय दिया जायेगा, यदि वे अपना उचित आरक्षण हेतु निर्धारित प्रमाण पत्र प्रस्तुत करते हैं।
- 15.3** आन कैम्पस काउन्सिलिंग के दौरान सीटों/पाठ्यक्रम/संस्था का आवंटन अभ्यर्थियों की UPSEE-2015 की योग्यता सूची के आधार पर किया जायेगा।
- 15.4** काउन्सिलिंग के लिए बुलाये गये अभ्यर्थियों की सूचना डाक के माध्यम से नहीं भेजी जायेगी। अभ्यर्थी इसके लिए यथा समय वेबसाइट देखें।
- 15.5** काउन्सिलिंग हेतु अर्ह अभ्यर्थी को अर्हकारी परीक्षा की अंकतालिका/मूल प्रमाण पत्रों, अधिमान प्रमाण पत्र एवं आरक्षण प्रमाण पत्रों आदि की मूल प्रति और एक सत्यापित प्रति काउन्सिलिंग में लाना होगा। काउन्सिलिंग के समय यदि अभ्यर्थी द्वारा उचित वर्ग के आरक्षण हेतु निर्धारित प्रारूप पर प्रमाण पत्र प्रस्तुत नहीं किया जाता है तो उसे आरक्षित वर्ग का लाभ न देते हुए सामान्य श्रेणी में माना जायेगा। यदि अभ्यर्थी द्वारा अर्हकारी परीक्षा उत्तर प्रदेश के बाहर स्थित किसी विद्यालय से उत्तीर्ण की है तो उसे अपने माता अथवा पिता का मूल/स्थाई निवास प्रमाण पत्र काउन्सिलिंग के समय प्रस्तुत करना होगा। अभ्यर्थी ध्यान दें कि उनका अपना निवास प्रमाण पत्र स्वीकार नहीं होगा अतः अपने माता अथवा पिता का सक्षम स्तर से निर्गत उत्तर प्रदेश के मूल/स्थाई निवासी होने का प्रमाण पत्र लेकर आयें। इसमें शिथिलता के संबंध में कोई भी अनुरोध स्वीकार नहीं होगा।
- 15.6** काउन्सिलिंग/प्रवेश के समय मूल प्रमाण पत्रों की जांच की जायेगी। वांछित प्रमाण पत्र उपलब्ध न कराने पर अभ्यर्थी के नाम पर प्रवेश हेतु विचार नहीं किया जायेगा। उक्त का उद्देश्य अभ्यर्थी के अर्हकारी परीक्षा, पात्रता की शर्तें, श्रेणी/आरक्षण प्रमाण पत्र एवं अधिमान आदि सत्यापित करने के संबंध में है। अभ्यर्थी को काउन्सिलिंग केन्द्र पर अपने मूल प्रमाण पत्र न प्रस्तुत करने की दशा में प्रवेश हेतु विचार नहीं किया जायेगा। मूल प्रमाण पत्रों के सत्यापन के उपरान्त प्रमाण पत्रों की एक सत्यापित प्रति रख कर मूल अभिलेख काउन्सिलिंग के दूसरे दिन वापस कर दिये जायेंगे।

- 15.7 अभ्यर्थी को काउन्सिलिंग केन्द्र पर निर्धारित शुल्क (सूचना काउन्सिलिंग के समय दी जायेगी) का बैंक ड्राफ्ट इनीशियल फीस के रूप में जमा करना होगा। यह अग्रिम फीस संस्था में जमा होने वाली कुल फीस के साथ समायोजित कर दी जायेगी, यदि अभ्यर्थी आवंटित कालेज में प्रवेश ले लेता है। कतिपय स्थितियों में क्लाज-16 के नियमों के अनुसार यह जमा वापसनीय है। आवंटित कालेज में प्रवेश न लेने की स्थिति में उपर्युक्त इनीशियल फीस वापस नहीं होगी। इस प्रकार के मामलों में इनीशियल फीस की वापसी का कोई अनुरोध अमान्य कर दिया जायेगा।
- 15.8 इनीशियल फीस के अतिरिक्त काउन्सिलिंग के लिए उपस्थित अभ्यर्थियों को निर्धारित शुल्क (सूचना काउन्सिलिंग के समय दी जायेगी) का बैंक ड्राफ्ट काउन्सिलिंग फीस के रूप में अभ्यर्थी को अलग से जमा करना होगा जो किसी भी दशा में वापस नहीं होगा।
- 15.9 सीट आवंटन के पश्चात् सभी अभ्यर्थियों को निर्धारित शुल्क (सूचना काउन्सिलिंग के समय दी जायेगी) का बैंक ड्राफ्ट कालेज फीस के अंश के रूप में सीट आवंटन पत्र निर्गत होने की तिथि से तीन दिन के भीतर (सीट आवंटन पत्र की तिथि को सम्मिलित करते हुए) संबंधित काउन्सिलिंग केन्द्र पर जमा करना होगा अन्यथा उक्त आवंटित सीट स्वतः निरस्त हो जायेगी। काउन्सिलिंग केन्द्र पर जमा की गयी यह धनराशि संस्था में प्रवेश लेने पर संस्था स्तर पर जमा होने वाली फीस में समायोजित कर ली जायेगी। संस्था में प्रवेश नहीं लेने की स्थिति में यह फीस वापस नहीं की जायेगी तथा इस संबंध में कोई भी अनुरोध स्वीकार नहीं किया जायेगा।
- 15.10 यदि कोई अभ्यर्थी एक से अधिक पाठ्यक्रमों में काउन्सिलिंग हेतु प्रतिभाग करना चाहता है तथा पूर्व में उसके द्वारा किसी अन्य पाठ्यक्रम में पैरा 15.9 के अनुसार फीस जमा कर अपनी सीट सुरक्षित करा ली गई है तो उसे मात्र काउन्सिलिंग फीस जमा करनी होगी। शेष धनराशि का समायोजन अन्य पाठ्यक्रम में आवंटित सीट के लिये स्वतः कर दिया जायेगा।
- 15.11 कृपया अंग्रेजी अंश देखें।
- 15.12 काउन्सिलिंग केन्द्र पर जमा किये जाने वाले सभी बैंक ड्राफ्ट अलग-अलग 'Finance Officer, U. P. Technical University, Lucknow' के पक्ष में अभ्यर्थी के काउन्सिलिंग केन्द्र के संबंधित जनपद/स्थान की शाखा पर payable हो, जमा करना होगा। उदाहरण के रूप में यदि अभ्यर्थी को कानपुर स्थित काउन्सिलिंग केन्द्र पर सम्मिलित होना है तो उसे अपना ड्राफ्ट 'Finance Officer, U.P. Technical University, Lucknow' के पक्ष में जो कानपुर में payable हो, जमा करना होगा।
- 15.13 काउन्सिलिंग प्रक्रिया वेबसाइट [www.uptu.ac.in](http://www.uptu.ac.in), [www.upseeuptu2015.in](http://www.upseeuptu2015.in) पर काउन्सिलिंग प्रारम्भ होने से पूर्व समय से उपलब्ध रहेगी। अभ्यर्थियों को सलाह है कि उक्त वेबसाइट पर सम्पर्क करें।
- 15.14 UPSEE-2015 की वरीयता के आधार पर आन लाइन काउन्सिलिंग दो चरणों में सम्पन्न की जायेगी। प्रथम चरण की आफ-कैम्पस आन लाइन काउन्सिलिंग में अभ्यर्थी किसी भी स्थान से इन्टरनेट द्वारा अपने लिये सम्भावित विकल्प की सम्भावनाओं का अनुमान एवं अभ्यास कर सकेंगे। दूसरे चरण की आन-कैम्पस आन लाइन काउन्सिलिंग में अभ्यर्थी को काउन्सिलिंग केन्द्र पर पहुँचकर अपना अन्तिम विकल्प देना होगा (लाक करना होगा)।
- 15.15 काउन्सिलिंग जुलाई 2015 के प्रथम सप्ताह में प्रारम्भ किया जाना प्रस्तावित है। परीक्षाफल घोषित हो जाने के पश्चात् काउन्सिलिंग कार्यक्रम का पूर्ण विवरण वेबसाइट [www.uptu.ac.in](http://www.uptu.ac.in), [www.upseeuptu2015.in](http://www.upseeuptu2015.in) पर बराबर देखें।
- 15.16 काउन्सिलिंग की तिथि तक शासन/अभातशिप के स्तर से निर्गत अद्यावधिक निर्देश लागू होंगे।
- 15.17 शासनादेश सं० 2426/सोलह-1-2009-13(128)/2009 दिनांक 10.9.09 द्वारा डा० अम्बेडकर इंस्टी० आफ टेक्नोलाजी फार हैन्डीकैड, कानपुर में डिग्री स्तरीय पाठ्यक्रमों में 60 प्रतिशत सीटों को विकलांग छात्रों से तथा 40 प्रतिशत सीटों को सामान्य छात्रों से प्रवेश दिया जायेगा। उक्त दोनों श्रेणियों में राज्य सरकार की आरक्षण नीति लागू रहेगी।
16. इनीशियल फीस की वापसी: कृपया अंग्रेजी अंश देखें।
17. इन्फार्मेशन ब्रोचर एवं आवेदन पत्र : कृपया अंग्रेजी अंश देखें।
18. आन लाइन आवेदन पत्र भरने हेतु दिशा निर्देश: कृपया अंग्रेजी अंश देखें।
19. ट्यूशन फीस आदि कृपया अंग्रेजी अंश देखें।
20. आवेदन पत्र भरने के लिए अभ्यर्थी को निर्देश कृपया अंग्रेजी अंश देखें।

**SYLLABI FOR UPSEE-2015****PAPER – 1 (PHYSICS, CHEMISTRY & MATHEMATICS)****Section A, PHYSICS**

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**Motion in one dimension:** Average velocity, instantaneous velocity, one-dimensional motion with constant accelerations, freely falling bodies.

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**Linear Momentum & collisions:** Linear momentum & impulse, conservation of linear momentum for two particle system, collisions, collision in one dimension, collision in two dimension, rocket propulsion.

**Rotation of a rigid body about a fixed axis:** Angular velocity and angular acceleration, rotational kinematics, rotational motion with constant angular acceleration relationship between angular and linear quantities, rotational energy, moment of inertia for a ring, rod, spherical shell, sphere and plane lamina, torque and angular acceleration, work and energy in rotational motion, rolling motion of a solid sphere and cylinder.

**Gravitation:** Gravitational field, Kepler's laws and motion of planets, planetary and satellite motion, geostationary satellite.

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**Mechanics of solids and fluids:** States of matter young's modulus, bulk modulus, shear modulus of rigidity, variations of pressure with depth, Buoyant forces and Archimedes principle, Pascal's law, Bernoulli's theorem and its application, surface energy, surface tension, angle of contact, capillary rise, coefficient of viscosity, viscous force, terminal velocity, Stoke's law, stream line motion, Reynold's numbers.

**Heat and thermodynamics:** First law of thermodynamics, specific heat of an ideal gas at constant volume and constant pressure, relation between them, thermodynamics process (reversible, irreversible, isothermal, adiabatic), second law of thermodynamics, concept of entropy and concept of absolute scale, efficiency of a Carnot engine, thermal conductivity, Newton's law of cooling, black body radiation, Wien's displacement law, Stefan's law.

**Wave:** Wave motion, phase, amplitude and velocity of wave, newton's formula for longitudinal waves, propagation of sound waves in air, effect of temperature and pressure on velocity of sound, Laplace's

correction, Principle of superposition, formation of standing waves, standing waves in strings and pipes, beats, Doppler's effect.

**Electrostatics:** Coulomb's law, electric field and potential due to point charge, dipole and its field along the axis and perpendicular to axis, electric flux, Gauss's theorem and its applications to find the field due to infinite sheet of charge, and inside the hollow conducting sphere, capacitance, parallel plate capacitor with air and dielectric medium between the Plates, series and parallel combination of capacitors, energy of a capacitor, displacement currents.

**Current Electricity:** Concept of free and bound electrons, drift velocity and mobility, electric current, Ohm's law, resistivity, conductivity, temperature dependency of resistance, resistance in series and parallel combination, Kirchoff's law and their application to network of resistances, principle of potentiometer, effect of temperature on resistance and its application.

**Magnetic Effect of Current:** Magnetic field due to current, Biot-Savart's law, magnetic field due to solenoid, motion of charge in a magnetic field, force on a current carrying conductors and torque on current loop in a magnetic field, magnetic flux, forces between two parallel current carrying conductors, moving coil galvanometer and its conversion into ammeter and voltmeter.

**Magnetism in Matter:** The magnetization of substance due to orbital and spin motions of electrons, magnetic moment of atoms, diamagnetism, paramagnetism, ferromagnetism, earth's magnetic field and its components and their measurement.

**Electromagnetic induction:** Induced e.m.f., Faraday's laws, Lenz's law, electromagnetic induction, self and mutual induction, B-H curve, hysteresis loss and its importance, eddy currents.

**Ray Optics and optical instruments:** Sources of light, luminous intensity, luminous flux, illuminance, photometry, wave nature of light, Huygen's theory for propagation of light and rectilinear propagation of light, reflection of light, total internal reflection, reflection and refraction at spherical surfaces, focal length of a combination of lenses, spherical and chromatic aberration and their removal, refraction and dispersion of light due to a prism, simple and compound microscope, reflecting and refracting telescope, magnifying power and resolving power.

**Wave Optics:** Coherent and incoherent sources of light, interference, young's double slit experiment diffraction due to a single slit, linearly polarized light, Polaroid.

**Modern Physics:** Photo-electric equation, matter waves, quantization, Planck's hypothesis, Bohr's model of hydrogen atom and its spectra, ionisation potential, Rydberg constant, solar spectrum and Fraunhofer lines, fluorescence and phosphorescence, X-Rays and their productions, characteristic and continuous spectra.

Nuclear Instability, radioactive decay laws, Emission of  $\alpha$ ,  $\beta$ ,  $\gamma$  rays, Mass - defect, Mass Energy equivalence, Nuclear Fission Nuclear Reactors, Nuclear Fusion.

Classification of conductors, Insulators and semiconductors on the basis of energy bands in solids, PN junction, PN Diode, junction Transistors, Transistor as an amplifier and Oscillator.

Principles of Logic Gates ( AND, OR and NOT ) Analog Vs Digital communication, Difference between Radio and television, Signal propagation, Principle of LASER and MASER, Population Inversion, Spontaneous and stimulated Emission.

## **Section B, CHEMISTRY**

**Atomic Structure:** Bohr's concept. Quantum numbers, Electronic configuration, molecular orbital theory for homonuclear molecules, Pauli's exclusion principle.

**Chemical Bonding:** Electrovalency, co-valency, hybridization involving s,p and d orbitals hydrogen bonding.

**Redox Reactions:** Oxidation number, oxidising and reducing agents, balancing of equations.

**Chemical Equilibrium and Kinetics:** Equilibrium constant (for gaseous system only) Le Chaterlier's principle, ionic equilibrium, Ostwald's dilution law, hydrolysis, pH and buffer solution, solubility product, common-ion effect, rate constant and first order reaction.

**Acid - Base Concepts:** Bronsted Lowry & Lewis.

**Electrochemistry:** Electrode potential and electro-chemical series.

**Catalysis:** Types and applications.

**Colloids:** Types and preparation, Brownian movement, Tyndall effect, coagulation and peptization.

**Colligative Properties of Solution:** Lowering of vapour pressure, Osmotic pressure, depression of freezing point, elevation of boiling point, determination of molecular weight.

**Periodic Table:** Classification of elements on the basis of electronic configuration, properties of s,p and d block elements, ionization potential, electronegativity & electron affinity.

**Preparation and Properties of the following:** Hydrogen peroxide. copper sulphate, silver nitrate, plaster of paris, borax, Mohr's salt, alums, white and red lead, microcosmic salt and bleaching powder, sodium thiosulphate.

**Thermochemistry:** Exothermic & endothermic reactions Heat of reaction, Heat of combustion & formation, neutralisation, Hess's law.

**General Organic Chemistry:** Shape of organic compounds, Inductive effect, mesomeric effect, electrophiles & nucleophiles, Reaction intermediates: carboniumion, carbanions & free radical, Types of organic reactions, Cannizzaro Friedel Craft, Perkin, Aldol condensation.

**Isomerism:** Structural, Geometrical & Optical

**IUPAC:** Nomenclature of simple organic compounds.

**Polymers:** Addition & condensation polymers

**Carbohydrates:** Monosaccharides.

**Preparation and Properties Of the Followings:** Hydrocarbons, monohydric alcohols, aldehydes, ketones, monocarboxylic acids, primary amines, benzene, nitrobenzene, aniline, phenol, benzaldehyde, benzoic acid, Grignard Reagent.

**Solid State:** Structure of simple ionic compounds, Crystal imperfections (point defects only), Born-Haber cycle

**Petroleum:** Important industrial fractions, cracking, octane number, anti knocking compounds.

## **Section C, MATHEMATICS**

**Algebra:** Sets relations & functions, De-Morgan's Law, Mapping Inverse relations, Equivalence relations, Peano's axioms, Definition of rationals and integers through equivalence relation, Indices and surds, Solutions of simultaneous and quadratic equations, A.P., G.P. and H.P., Special sums i.e.  $\sum n^2$  and  $\sum n^3$  ( $n \in \mathbb{N}$ ), Partial fraction, Binomial theorem for any index, exponential series, Logarithm and Logarithmic

series. Determinants and their use in solving simultaneous linear equations, Matrices, Algebra of matrices, Inverse of a matrix, Use of matrix for solving equations.

**Probability:** Definition, Dependent and independent events, Numerical problem on addition and multiplication, theorem of probability.

**Trigonometry:** Identities, Trigonometric equations, properties of triangles, solution of triangles, heights and distances, Inverse function, Complex numbers and their properties, Cube roots of unity, De-Moivre's theorem.

**Co-ordinate Geometry:** Pair of straight lines, Circles, General equation of second degree, parabola, ellipse and hyperbola, tracing of conics.

**Calculus:** Limits & continuity of functions, Differentiation of function of function, tangents & normal, Simple examples of Maxima & Minima, Indeterminate forms, Integration of function by parts, by substitution and by partial fraction, definite integral, application to volumes and surfaces of frustums of sphere, cone and cylinder. Differential equations of first order and of first degree.

**Vectors :** Algebra of vectors, scalar and vector products of two and three vectors and their applications.

**Dynamics :** Velocity, composition of velocity, relative velocity, acceleration, composition of accelerations, Motion under gravity, Projectiles, Laws of motion, Principles of conservation of momentum and energy, direct impact of smooth bodies.

**Statics:** Composition of coplanar, concurrent and parallel forces moments and couples resultant of set of coplanar forces and condition of equilibrium, determination of centroid in simple cases, Problems involving friction.

## **PAPER – 2 (PHYSICS, CHEMISTRY & BIOLOGY)**

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**Mechanics of solids and fluids:** States of matter young's modulus, bulk modulus, shear modulus of rigidity, variations of pressure with depth, Buoyant forces and Archimedes principle, Pascal's law, Bernoulli's theorem and its application, surface energy, surface tension, angle of contact, capillary rise, coefficient of viscosity, viscous force, terminal velocity, Stoke's law, stream line motion, Reynold's numbers.

**Heat and thermodynamics:** First law of thermodynamics, specific heat of an ideal gas at constant volume and constant pressure, relation between them, thermodynamics process (reversible, irreversible, isothermal, adiabatic), second law of thermodynamics, concept of entropy and concept of absolute scale, efficiency of a Carnot engine, thermal conductivity, Newton's law of cooling, black body radiation, Wien's displacement law, Stefan's law.

**Wave:** Wave motion, phase, amplitude and velocity of wave, newton's formula for longitudinal waves, propagation of sound waves in air, effect of temperature and pressure on velocity of sound, Laplace's correction, Principle of superposition, formation of standing waves, standing waves in strings and pipes, beats, Doppler's effect.

**Electrostatics:** Coulomb's law, electric field and potential due to point charge, dipole and its field along the axis and perpendicular to axis, electric flux, Gauss's theorem and its applications to find the field due to infinite sheet of charge, and inside the hollow conducting sphere, capacitance, parallel plate capacitor with air and dielectric medium between the Plates, series and parallel combination of capacitors, energy of a capacitor, displacement currents.

**Current Electricity:** Concept of free and bound electrons, drift velocity and mobility, electric current, Ohm's law, resistivity, conductivity, temperature dependency of resistance, resistance in series and parallel combination, Kirchoff's law and their application to network of resistances, principle of potentiometer, effect of temperature on resistance and its application.

**Magnetic Effect of Current:** Magnetic field due to current, Biot-Savart's law, magnetic field due to solenoid, motion of charge in a magnetic field, force on a current carrying conductors and torque on current loop in a magnetic field, magnetic flux, forces between two parallel current carrying conductors, moving coil galvanometer and its conversion into ammeter and voltmeter.

**Magnetism in Matter:** The magnetization of substance due to orbital and spin motions of electrons, magnetic moment of atoms, diamagnetism, paramagnetism, ferromagnetism, earth's magnetic field and its components and their measurement.

**Electromagnetic induction:** Induced e.m.f., Faraday's laws, Lenz's law, electromagnetic induction, self and mutual induction, B-H curve, hysteresis loss and its importance, eddy currents.

**Ray Optics and optical instruments:** Sources of light, luminous intensity, luminous flux, illuminance, photometry, wave nature of light, Huygen's theory for propagation of light and rectilinear propagation of light, reflection of light, total internal reflection, reflection and refraction at spherical surfaces, focal

length of a combination of lenses, spherical and chromatic aberration and their removal, refraction and dispersion of light due to a prism, simple and compound microscope, reflecting and refracting telescope, magnifying power and resolving power.

**Wave Optics:** Coherent and incoherent sources of light, interference, young's double slit experiment diffraction due to a single slit, linearly polarized light, Polaroid.

**Modern Physics:** Photo-electric equation, matter waves, quantization, Planck's hypothesis, Bohr's model of hydrogen atom and its spectra, ionisation potential, Rydberg constant, solar spectrum and Fraunhofer lines, fluorescence and phosphorescence, X-Rays and their productions, characteristic and continuous spectra.

Nuclear Instability, radioactive decay laws, Emission of  $\alpha$ ,  $\beta$ ,  $\gamma$  rays, Mass - defect, Mass Energy equivalence, Nuclear Fission Nuclear Reactors, Nuclear Fusion.

Classification of conductors, Insulators and semiconductors on the basis of energy bands in solids, PN junction, PN Diode, junction Transistors, Transistor as an amplifier and Oscillator.

Principles of Logic Gates ( AND, OR and NOT ) Analog Vs Digital communication, Difference between Radio and television, Signal propagation, Principle of LASER and MASER, Population Inversion, Spontaneous and stimulated Emission.

## **Section B, CHEMISTRY**

**Atomic Structure:** Bohr's concept. Quantum numbers, Electronic configuration, molecular orbital theory for homonuclear molecules, Pauli's exclusion principle.

**Chemical Bonding:** Electrovalency, co-valency, hybridization involving s,p and d orbitals hydrogen bonding.

**Redox Reactions:** Oxidation number, oxidising and reducing agents, balancing of equations.

**Chemical Equilibrium and Kinetics:** Equilibrium constant (for gaseous system only) Le Chaterlier's principle, ionic equilibrium, Ostwald's dilution law, hydrolysis, pH and buffer solution, solubility product, common-ion effect, rate constant and first order reaction.

**Acid - Base Concepts:** Bronsted Lowry & Lewis.

**Electrochemistry:** Electrode potential and electro-chemical series.

**Catalysis:** Types and applications.

**Colloids:** Types and preparation, Brownian movement, Tyndall effect, coagulation and peptization.

**Colligative Properties of Solution:** Lowering of vapour pressure, Osmotic pressure, depression of freezing point, elevation of boiling point, determination of molecular weight.

**Periodic Table:** Classification of elements on the basis of electronic configuration, properties of s,p and d block elements, ionization potential, electronegativity & electron affinity.

**Preparation and Properties of the following:** Hydrogen peroxide. copper sulphate, silver nitrate, plaster of paris, borax, Mohr's salt, alums, white and red lead, microcosmic salt and bleaching powder, sodium thiosulphate.

**Thermochemistry:** Exothermic & endothermic reactions Heat of reaction, Heat of combustion & formation, neutralisation, Hess's law.

**General Organic Chemistry:** Shape of organic compounds, Inductive effect, mesomeric effect, electrophiles & nucleophiles, Reaction intermediates: carboniumion, carbanions & free radical, Types of organic reactions, Cannizzaro Friedel Craft, Perkin, Aldol condensation.

**Isomerism:** Structural, Geometrical & Optical

**IUPAC:** Nomenclature of simple organic compounds.

**Polymers:** Addition & condensation polymers

**Carbohydrates:** Monosaccharides.

**Preparation and Properties Of the Followings:** Hydrocarbons, monohydric alcohols, aldehydes, ketones, monocarboxylic acids, primary amines, benzene, nitrobenzene, aniline, phenol, benzaldehyde, benzoic acid, Grignard Reagent.

**Solid State:** Structure of simple ionic compounds, Crystal imperfections (point defects only), Born-Haber cycle

**Petroleum:** Important industrial fractions, cracking, octane number, anti knocking compounds.

## **Section C, BIOLOGY**

### **Zoology**

**Origin of Life:** Oparin's theory, Miller's Experiment, Viruses - structure, properties, distribution, classification and pathogenesis (Eg. AIDS, CANCER), Viroids & Prions, Biotic balance.

**Organic Evolution:** Relationship among organisms and Evidences of organic Evolution - Principles of Evolution - Lamarkism, Darwinism and Speciation.

**Mechanism of Organic Evolution:** Variations - Definition, causes and types, Mutations (Principles of Hugo de'veries), Role of mutations in speciation. Evolution through ages and human evolution

**Human Genetics and Eugenics:** Human hereditary traits, study of Twins, A.B.O. blood groups and their inheritance, Rh-factor, Sex determination. Chromosomal aberrations, Important human syndromes, Sex linked characters and their inheritance, Applied Genetics - eugenics, euthenics, euphenics & I.Q. Test.

**Applied Biology:** Wild life of India - Endangered species: Biosphere Reserves, National Parks and sanctuaries, Project Tiger, Conservation of wild life, Bio-energy, Poultry, Fisheries (edible fishes), Human Population, Population explosion, problems & control. Test - Tube babies, & Amniocentasis, Application of Biotechnology in human welfare. Human Aging.

**Mammalian Anatomy (Eg. Rabbit):** Reproductive system (excluding embryonic development) Osteology, structure and organization of different systems.

### **Animal Physiology:**

(A) *Animal Nutrition:* Food, Balanced diet, Nutritional imbalances and deficiency diseases, Digestion, Absorption, Assimilation of food, (comparison between human and Rabbit).

(B) *Animal Excretion and Osmoregulation:* Chemical nature of excretory products in various animals, Physiology of excretion, Function of liver and kidney (Homeostatic regulatory functions of kidneys), Formation of urine, Osmoregulation by kidneys.

(C) *Respiratory system:* Exchange and transport of gases ( $O_2$  and  $CO_2$ ) factors affecting  $O_2$  and  $CO_2$  transport, Cellular respiration, different lung volumes, breathing and sound production.

(D) *Nervous systems*: Central, autonomic and peripheral nervous system, Receptors, Effectors, Reflex-action. Nature and conduction of Nerve- impulses, Synapse, Sense organs - Structure & working of Eye & Ear, Biochemistry of vision and taste buds.

(E) *Endocrine System*: Different endocrine glands and Hormones - definition, types, characteristics and their functions, (in relation to human beings), Hormonal disorders and pheromones.

(F) *Circulatory System*: Circulation of body fluids- Blood and lymph, Open and closed vascular systems, Structure and working physiology of Heart, Comparison between arteries and veins, Lymphatic system.

(G) *Animal Diversity*: Classification of Animal kingdom (Based on Storer & Eusinger), Characteristic feature of different phyla and classes with examples.

***Detailed studies of followings:***

(a) Protozoa

(i) Amoeba- Habit & Habitat, structure, locomotion, reproduction, Osmoregulation, Parasitic amoebae - Entamoeba histolytica and Entamoeba gingivalis, structure, diseases caused by them and their control measures.

(ii) Plasmodium vivax-life-cycle, malaria therapy and control.

(iii) Protozoan and diseases

(b) Porifera: A simple sponge ( Leucosolenia); Detailed study of structure & physiology, Sponge industry.

(c) Coelenterata: Hydra - Habit and Habitat, morphology, tissue differentiation in relation to physiological division of labour and regeneration.

(d) Aschelminthes: Ascaris- morphology, life-cycle, therapy and control.

(e) Annelida: Pheretima posthuma - Bionomics and economic importance.

(f) Arthropoda: (Periplanata): Structure- external and internal.

**Comparison between Periplanata and Blatta.**

(i) Housefly & Mosquito: structure and life – cycle

(ii) Economic importance of insects & their control.

**Botany**

**Plant Cell**: Structure & functions electron microscopic structured mitochondria, Plastids centrosomes. Lysosomes, microsomes, endoplasmic reticulum, Nucleus, Golgi bodies, D.N.A & R.N.A. Cytoplasm, membranes and cell wall.

**Protoplasm**: structure, components physical and chemical properties.

Cell division (formation) - free cell formation, Amitosis & Meiosis, Duplication of D.N.A.

**Ecology**: Ecological factors (atmospheric, edaphic, climatic, geological & biotic factors).

**Ecosystem**: Structure, components of ecosystem eg. Water soluble minerals and gases, producers consumers, decomposers, Pond and forest ecosystem.

Atmospheric pollution-causes and control, Types of pollution - Detergents, chemicals automobile exhaust, Radioactive matter, Smog, sound, Pesticides.

**Genetics**: Mendelism, Mendel's experiment and law of inheritance.

Modern Classification of plant kingdom- (according to Ostwald & Tippo) (outline).

**Seeds in angiospermic plants:** description of development of angiospermic plants (life history of angiospermic plants).

**Fruits:** Dispersal of fruits and seeds

**Cell differentiation Plant Tissue:** Meristematic classification of meristematic & permanent tissue and functions and classification of tissue system.

**Anatomy of Root, stem and leaf:** difference between dicot and Monocot stem. Secondary growth of stem and root. Anatomy of hydrophytes, Xerophytes & Mesophytes.

**Important phyla:**

Algae: Habitat, general characters & uses, description of *Ulothrix* & *Spirogyra*.

Bacteria: structure - types of nutrition, reproduction and economic importance.

Fungi: structure description of *Rhizopus* and yeast and their economic importance, Fermentation.

Bryophyta: structure and economic importance, description of *Funaria* (Moss)

Pteridophyta: general structures of pteridophytes description of fern (*Dropteris*)

General study of gymnosperms and life history of *Cycas*.

Classification of angiosperms,

Description of families - identification and economic importance

Cruciferae, Malvaceae, Leguminosae, Compositae, Cucurbitaceae.

**Soil:**

Absorption of water through root hairs osmosis, Translocation and Root pressure

Nitrogen cycle.

Special modes of nutrition in plants (Autotrophic, heterotrophic, Parasites, saprophytes, Symbionts insectivorous and their ecological relation.

**Photosynthesis:** Chloroplast, light, chlorophyll and Carbon dioxide, Mechanism of photosynthesis formation of A.T.P. and their functions and importance of photosynthesis.

Transpiration: factors and importance, Mechanism of opening and closing of stomata.

Respiration: aerobic, anaerobic respiration, mechanism of respiration (Glycolysis, Krebs's cycle, E.T.S.)

Growth & movement: definition of growth, Region of growth & their measurements, types of movements in plants, Growth hormone.

### **PAPER – 3 (AG-I, AG II & AG III)**

#### **AG – I: AGRICULTURAL PHYSICS AND CHEMISTRY**

##### **Agricultural Physics**

Unit, measurement, Vernier, screw gauge, Force-analysis, force parallelogram, momentum of force, equilibrium of forces, velocity and acceleration, speed, laws of motion, gravitational motion, acceleration due to gravity, circular motion, Centrifugal and centripetal forces, pressure, Capillary force and tension, atmospheric surface-barometer, Boyle's law, friction and simple example of its laws, Working of common pumps, operation, performance, power and energy, heat and temperature, radiation, convection and conduction, heat conductance, specific heat in relation to solids, physical change in the solid due to heat, latent heat, relationship between heat and work, dewpoint, relative humidity and its determination, formation of clouds, fog, frost, snow and hail, weather and its forecasting.

### **Agricultural Chemistry**

Matter - solid and liquid, physical and chemical changes, element, mixture, compound, laws of chemical combination, laws of conservation, laws of proportion, laws of gases, explanation of above laws in reference to atomic principle, atomic laws, new & old concepts, definition, simple explanation and inter-relationship of the following:

Valency, atomic weight, molecular weight, equivalent weight, structure of atom, Avogadro's hypothesis and its uses, ionic theory, difference between atom and ion, explanation of the following with the help of ionic theory, electrolysis, acid, alkali, salt, water, hydrolysis and neutralisations, oxidation and reduction, classification of elements.

**Inorganic Chemistry:** Water and its hardness, methods of treatment of hard water and soft water, occurrence of compounds, properties and uses of the followings elements nitrogen, ammonia, nitric acid, carbon, carbon dioxide, phosphoric acid, sulphur dioxide, sulphuric acid, chlorine, hydrochloric acid. Occurrence properties, uses and their functions in the plants of the following: Sodium, sodium chloride, sodium hydroxide, sodium carbonate, sodium bicarbonate, sodium phosphate, sodium nitrate, potassium sulphate, Calcium, calcium oxide, calcium carbonate, calcium sulphate and calcium nitrate, Iron, sulphate and iron phosphate, aluminium, aluminium sulphate and aluminium phosphate Nitrogen cycle, Fixation of nitrogen in the soil, function of Super-phosphate and phosphorus in plant, nitrogen fertilizers.

**Organic Chemistry:** Formation of organic compounds, physical properties, nomenclature, general knowledge of the following compounds, simple formulae, general properties and main uses, Structural formula of the following: Hydrocarbon (saturated and unsaturated) alcohol ethylalcohol and glycol, aldehyde and ketones, formaldehyde, acetone, amine and oxide, methyl and ethylamine, urea, Acids: acetic, benzoic, lactic, Oxalic acids, fats and oils, soap and saponification, carbohydrates, glucose, fructose, starch, simple methods of making benzene and phenol and their properties.

## **AG – II: AGRICULTURAL ENGINEERING AND STATISTICS**

### **Agricultural Engineering**

Properties of different materials used in agricultural implements, Classification of plough their merits, comparison, common troubles in their operation and precautions, maintenance, assembly, cost and comparison of cultivation harrow, hoe, float, scraper and seed drill, draft of implements. Their measurements, factors affecting draft. Water lifts, their discharge, capacities, command area, and cost of irrigation ( water lifts should include common water lifts and low lift pumps ). Tillage and ploughing, types of ploughing and their merits. Types and objects tillage. Chemical and Physical effects of tillage practices for different crops. Transmission of power through gears. Pulleys and belts, hand operated chaff cutters, cane crusher, winnowing fan, and splad threshers.

### **Agricultural Statistics**

Collection of data, classification and tabulation, frequency distribution, mean and their kinds, merits and demerits. Measurements of dispersion.

## **AG – III: AGRONOMY & AGRICULTURAL BOTANY**

### **Agronomy**

**Crops:** Cultivation, practices of common crops of India and their varieties..

**Soils:** Origin, classification and physical properties of soils, soil conservation.

**Manures And Manuring:** Nutrients for plants growth, uptake of N.P.K. organic and inorganic fertilizers, farmyard and green manures, their properties and method of application, knowledge of following manures and fertilizer: FYM, compost, urinated soil, castor and groundnut cake, ammonium sulphate, sodium nitrate, super phosphate, potassium sulphate, urea, CAN ammonium chloride and mixtures.

**Irrigation & Drainage:** Methods, measurement and type of irrigation and drainage systems, Cultivation practices of common vegetable and fruit crops.

### **Agricultural Botany**

External morphology of plants, function and modification of stem, root and leaves, structure and function of different parts of flower, type of inflorescence, pollen and pollination, classification, structure, germination and dispersal of seeds, type of function and their dispersal, internal morphology of plant cell, reproductive organs of angiosperms, knowledge of structure of rlltharis, Absorption, Respiration, Transpiration and carbon assimilation, root pressure, Translocation of foods and storage, Introductory knowledge of Taxonomy and plant kingdom specially Regional and Horticultural plants laminaries, Cruciferease, Leguminaceae, Cucurbitaceae, Solonaceae, Malbaceae, Elementry Knowledge of mosses, ferns, mucors, bacteria.

## **PAPER – 4 (APTITUDE TEST FOR ARCHITECTURE)**

### **Part – A: Mathematics & Aesthetic Sensitivity**

#### **MATHEMATICS**

**Algebra:** Sets relations & functions, De-Morgan's Law, Mapping Inverse relations, Equivalence relations, Peano's axioms, Definition of rationals and integers through equivalence relation, Indices and surds, Solutions of simultaneous and quadratic equations, A.P., G.P. and H.P., Special sums i.e.  $\sum n^2$  and  $\sum n^3$  ( $n \in \mathbb{N}$ ), Partial fraction, Binomial theorem for any index, exponential series, Logarithm and Logarithmic series. Determinants and their use in solving simultaneous linear equations, Matrices, Algebra of matrices, Inverse of a matrix, Use of matrix for solving equations.

**Probability:** Definition, Dependent and independent events, Numerical problem on addition and multiplication, theorem of probability.

**Trigonometry:** Identities, Trigonometric equations, properties of triangles, solution of triangles, heights and distances, Inverse function, Complex numbers and their properties, Cube roots of unity, De-Moivre's theorem.

**Co-ordinate Geometry:** Pair of straight lines, Circles, General equation of second degree, parabola, ellipse and hyperbola, tracing of conics.

**Calculus:** Limits & continuity of functions, Differentiation of function of function, tangents & normal, Simple examples of Maxima & Minima, Indeterminate forms, Integration of function by parts, by substitution and by partial fraction, definite integral, application to volumes and surfaces of frustums of sphere, cone and cylinder. Differential equations of first order and of first degree.

**Vectors :** Algebra of vectors, scalar and vector products of two and three vectors and their applications.

**Dynamics :** Velocity, composition of velocity, relative velocity, acceleration, composition of accelerations, Motion under gravity, Projectiles, Laws of motion, Principles of conservation of momentum and energy, direct impact of smooth bodies.

**Statics:** Composition of coplanar, concurrent and parallel forces moments and couples resultant of set of coplanar forces and condition of equilibrium, determination of centroid in simple cases, Problems involving friction.

### **Aesthetic sensitivity**

Aesthetic sensitivity Test is aimed to evaluate a candidate for aesthetic Perception, Imagination, and Observation; Creativity and Communication; and Architectural awareness.

- Visualizing three dimensional objects from two dimensional drawings
- Visualizing different sides / surfaces of three dimensional objects.
- Identifying commonly used materials and objects based on their textural qualities.
- Analytical Reasoning
- Mental Ability
- Imaginative comprehension and expression
- Architectural awareness

### **Part- B: Drawing Aptitude**

The Drawing Aptitude Test is aimed to evaluate a candidate for his understanding of Scale and Proportion; sense of perspective, colour and; understanding of the effects of light on objects through shades and shadows

- Ability to sketch a given object proportionately and rendering the same in visually appealing manner
- Visualising and drawing the effects of light on the objects and their shadow cast on the surroundings.
- Sense of Perspective Drawing
- Combining and composing given three dimensional elements to form a building or structural form
- Creating interesting two dimensional compositions using given shapes or planner forms
- Creating visual harmony using colours in given composition
- Understanding of scale and sense of proportion

### **PAPER – 5 (APTITUDE TEST FOR GENERAL AWARENESS (BHMCT/BFAD/BFA))**

#### **(A) Reasoning & Logical Deduction:**

- Geometrical designs & Identification
- Selection of related letters / words / numbers / figures
- Identification of odd thing / item out from a group
- Completion of numerical series based on the pattern / logic



- Fill in the blanks of the series based on the numerical pattern and logic of the series
- Syllogisms (logic based questions), Identification of logic & selection of correct answers based on the logic

**(B) Numerical Ability & Scientific Aptitude:**

- Arithmetical questions up to 10<sup>th</sup> standard
- Calculation of fraction, percentages, square roots etc.
- Profit & Loss and Interest calculations
- Data / Table analysis, Graph & Bar Diagram and Pie Chart analysis
- Questions related to common use of science (Physics & Chemistry)
- Health & Nutrition

**(C) General Knowledge:**

- Current affairs / Events (Political, Social, Cultural & Economics)
- Historical events
- Geography including Tourist Places / Spots
- Current affairs relating to Business & Trade
- Countries & Currencies
- Latest Who's Who?
- Sports & Games

**(D) English Language:**

- Word Meanings
- Antonyms & Synonyms
- Meaning of Phrases & Idioms
- Fill in the blanks
- Complete / Improvement of the sentences with correct use of Pronouns, Verbs, Adverbs & Adjectives
- Reading comprehension's followed by questions

**PAPER – 6 (APTITUDE TEST FOR DIPLOMA HOLDERS IN ENGINEERING)**

Engineering Mechanics, Engineering Graphics, Basic Electrical Engg., Basic Electronics Engg., Elements of computer science, Elementary Biology, Basic Workshop Practice and Physics/Chemistry/Maths of Diploma standard.

**PAPER – 7 (APTITUDE TEST FOR DIPLOMA HOLDERS IN PHARMACY)**

1. Pharmaceutics-I
2. Pharmaceutical Chemistry - I
3. Pharmacognosy
4. Biochemistry and Clinical Pathology
5. Human Anatomy and Physiology
6. Health Education & Community Pharmacy
7. Pharmaceutics - II

8. Pharmaceutical Chemistry - II
9. Pharmacology and Toxicology
10. Pharmaceutical Jurisprudence
11. Drug Store and Business management
12. Hospital and Clinical Pharmacy

### **PAPER – 8 (APTITUDE TEST FOR B.SC. GRADUATE IN ENGINEERING)**

**Linear Algebra:** Matrix Algebra, Systems of linear equations, Eigen values and eigen vectors.

**Calculus:** Mean value theorems, Theorems of integral calculus, Evaluation of definite and improper integrals, Partial Derivatives, Maxima and minima, multiple integrals, Fourier series. Vector identities, Directional derivatives, Line, Surface and Volume integrals, Stokes, Gauss and Green's theorems.

**Differential equations:** First order equation (linear and nonlinear), Higher order linear differential equations with constant coefficients, Method of variation of parameters, Cauchy's and Euler's equations, Initial and boundary value problems, Linear partial differential equations with constant coefficients of 2<sup>nd</sup> order and their classifications and variable separable method.

**Complex variables:** Analytic functions, Cauchy's integral theorem and integral formula, Taylor's and Laurent' series, Residue theorem, solution integrals.

**Probability and Statistics:** Sampling theorems, Conditional probability, Mean, median, mode and standard deviation, Random variables, Discrete and continuous distributions, Poisson, Normal and Binomial distribution, Correlation and regression analysis.

**Fourier Series:** Periodic functions, Trigonometric series, Fourier series of period  $2\pi$ , Eulers formulae, Functions having arbitrary period, Change of interval, Even and odd functions, Half range sine and cosine series.

**Transform Theory:** Laplace transform, Laplace transform of derivatives and integrals, Inverse Laplace transform, Laplace transform of periodic functions, Convolution theorem, Application to solve simple linear and simultaneous differential equations.

Fourier integral, Fourier complex transform, Fourier sine and cosine transforms and applications to simple heat transfer equations. Z – transform and its application to solve difference equations.

### **PAPER – 9 (APTITUDE TEST FOR MBA)**

The test is aimed at evaluating the verbal ability, quantitative aptitude, logical & abstract reasoning and knowledge of current affairs. The following is a brief description of contents of the test paper.

**Section A (English Language):** Grammar, vocabulary, uncommon words, sentence completion, synonyms, antonyms, relationship between words & phrases and comprehension of passages.

**Section B (Numerical Aptitude):** Numerical calculation, arithmetic, simple algebra, geometry and trigonometry, Interpretation of graphs, charts and tables.

**Section C (Thinking and Decision Making):** Creative thinking, unfamiliar relationships, verbal reasoning, finding patternstrends and Assessment of figures & diagrams.

**Section D (General Awareness):** Knowledge of current affairs and other issues related to trade, industry, economy, sports, culture and science.

## PAPER – 10 (APTITUDE TEST FOR MCA)

### (i) MATHEMATICS

**Modern Algebra:** Idempotent law, identities, complementary laws, Demorgan's theorem, mapping, inverse relation, equivalence relation, Piano's Axiom, definition of rational numbers and integers through equivalence relation.

**Algebra:** Surds, solution of simultaneous and quadratic equations, arithmetic, geometric and harmonic progression, Binomial theorem for any index, logarithms, exponential and logarithmic series, determinants.

**Probability:** Definition, dependent and independent events, numerical problems on addition and multiplication of probability, theorems of probability.

**Trigonometry:** Simple identities, trigonometric equations, properties of triangles, use of mathematical tables, solution of triangles, height and distance, inverse functions, DeMoivre's theorem.

**Co-Ordinate Geometry:** Co-ordinate geometry of the straight lines, pair of straight lines, circle, parabola, ellipse and hyperbola and their properties.

**Calculus:** Differentiation of function of functions, tangents and normal, simple examples of maxima of minima, limits of function, integration of function (by parts, by substitution and by partial fraction), definite integral (application to volumes and surfaces of frustums of sphere, cone and cylinder).

**Vectors:** Position vector, addition and subtraction of vectors, scalar and vector products and their applications.

**Dynamics:** Velocity, composition of velocity, relative velocity, acceleration, composition of acceleration, motion under gravity, projectiles, laws of motions, principles of conservation of momentum and energy, direct impact of smooth bodies, pulleys.

**Statics:** Composition of co-planar, concurrent and parallel forces, moments and couples, resultant of set of coplanar forces and conditions of equilibrium, determination of Centroides in simple case, problems involving friction.

### (ii) STATISTICS

Theory of probability, Mean, Median, Mode, Dispersion and Standard Deviation.

### (iii) LOGICAL ABILITY

Questions to test analytical and reasoning capability of candidates.

## PAPER- 11 APTITUDE TEST FOR MASTER IN APPLIED MANAGEMENT (MAM) (Dual Degree course 5 years)

The test is aimed at asses the language, quantitative aptitude, logic and reasoning power and general knowledge of candidates.

**Section A (English Language):** Grammar, Vocabulary, Synonyms, Antonyms, Sentence Completion and Phrases, Comprehension of Passages.

**Section B (Numerical Aptitude):** Arithmetic's, Algebra, Geometry, Trigonometry, Interpretation of Graphs, Charts and Tables.

**Section C (Mental Ability):** Reasoning Aptitude, Patterns, Trends, Recognition and Assessment of Figures and Diagrams.

**Section D (General Knowledge & Current Affairs):** Political Awareness, Economic Affairs and Business Environment, General Awareness of Sciences, Sports and Games, Society, History, Geography, Civilization and Culture.

## PAPER 12 APTITUDE TEST FOR 2nd Year MCA (Lateral Entry)

### (I) MATHEMATICAL STRUCTURES

**Modern Algebra and Matrices:** Algebraic structures and general properties, semigroups, groups. Rings and Fields: definitions, elementary properties and standard results. Matrices, operation on matrices, Inverse and rank of a matrix, Eigen values, eigenvectors and system of linear equations.

**Set Theory:** Introduction, sets and cardinals, combination of sets, multisets and set identities. Relations - definition, operations on relations, composite relations, properties of relations, partial order relations. Functions - definition, classification of functions, operations on functions, recursively defined functions.

**Number Theory and Methods of Proof:** Natural numbers, factorization and prime numbers, floor and ceiling functions. Methods of proof – Introduction, direct and indirect methods of proof, mathematical Induction.

**Combinatorics and Probability:** Introduction, counting techniques, Pigeonhole principle. Probability –definition, sample space, algebra of events, axioms of probability, prior and posterior probability, Bayes theorem.

### (II) COMPUTING CONCEPTS

**Principles of Computer Science:** Computer organization - evaluation of computers, computer arithmetic, control design, processor design, input output organization, memory organization. Data Structures – Arrays, lists, stacks, queues. Trees and graphs - definition, properties and applications. Analysis of algorithms.

**Proposition logic and Boolean Algebra:** Propositions, truth tables, tautology, contradiction, algebra of propositions. Binary systems, axioms and theorems of Boolean algebra, Boolean functions and digital circuits.

**Numerical Techniques:** Floating point Arithmetic, solution of the system of linear equations, roots of polynomials, interpolation and curve fitting.

**Theory of Computation:** Finite-state machines, regular and non-regular languages, Turing machines and applications.

### (III) REASONING ABILITY

Questions in this part will be aimed to assess the reasoning and logical ability of the candidates

**(i) LIST OF BRANCHES OF ALL THE COURSES**

<b>NAME OF BRANCHES</b>	<b>BRANCH CODE</b>	<b>STREAM</b>
Aeronautical Engineering	AE	B.Tech.
Agricultural Engineering	AG	B.Tech
Applied Electronics & Instrumentation	AI	B.Tech
Architecture	AR	B.Arch.
Automobile Engineering	AU	B.Tech.
Bio Chemical Engineering	BC	B.Tech
Building Engg. & Construction Technology (Architecture)	BE	B.Arch.
Bio Medical Engineering	BM	B.Tech.
Bachelor of Pharmacy	BP	B.Pharm
Bio-Technology	BT	B.Tech.
Chemical & Alcohol Technology	CA	B.Tech.
Civil Engineering	CE	B.Tech.
Chemical Engineering	CH	B.Tech.
Computer Science	CO	B.Tech.
Computer Science & Engineering	CS	B.Tech.
Computer Science & Information Technology	CSI	B.Tech.
Electronics & Communication Engineering	EC	B.Tech.
Electrical Engineering	EE	B.Tech.
Electronics & Instrumentation Engineering	EI	B.Tech.
Electronics Engineering	EL	B.Tech.
Electrical & Electronics Engineering	EN	B.Tech.
Electronics & Telecomm Engineering	ET	B.Tech.
Electronics Instrumentation & Control	EX	B.Tech.
Environmental Engineering	EV	B.Tech.
Electronics & Computer Engineering	ECZ	B.Tech.
Electrical & Computer Engineering	EZ	B.Tech.
Fashion & Apparel Design	FD	B.FAD
Food Technology	FT	B.Tech.
Hotel Management	HM	BHMCT
Instrumentation & Control	IC	B.Tech.
Interior Design (Architecture )	ID	B.Arch
Instrumentation Engineering	IN	B.Tech.
Industrial Production Engg.	IP	B.Tech.
Information Technology	IT	B.Tech.

Leather Technology	LT	B.Tech.
Mechanical Engineering	ME	B.Tech.
Manufacturing Technology	MF	B.Tech.
Man Made Fiber Technology	MM	B.Tech.
Marine Engineering	MR	B.Tech.
Material & Metallurgical Engineering	MST	B.Tech.
Metallurgical Engineering	MT	B.Tech.
Mechanical & Industrial Engineering	MX	B.Tech.
Oil Technology	OT	B.Tech.
Production Engineering	PE	B.Tech.
Planning (Architecture)	PA	B.Arch.
Production & Industrial Engineering	PI	B.Tech.
Plastic Technology	PL	B.Tech.
Paint Technology	PT	B.Tech.
Textile Chemistry	TC	B.Tech.
Textile Technology	TT	B.Tech.
Textile Engineering	TX	B.Tech.
Fine Arts	FA	BFA

**(i) LIST OF BRANCHES OF MBA & MCA COURSES**

<b>NAME OF BRANCHES</b>	<b>BRANCH CODE</b>	<b>STREAM</b>
Master of Business Administration (MBA)	M1	MBA
Master of Business Administration _Business Economics	M2	MBA
Master of Business Administration_Finance & Control	M3	MBA
Master of Business Administration_Tourism Management	M4	MBA
Master of Business Administration_International Business (IB)	M5	MBA
Master of Business Administration_Financial Management (FM)	M6	MBA
Master of Business Administration_Agri. Business	M17	MBA
Master of Business Administration_Marketing	M20	MBA
Master of Business Administration_E-Commerce	M21	MBA
Master of Business Administration_Human Research & Development	M22	MBA
Master of Computer Applications	MCA	MCA

**Tentative List of Institutions/Branches/Intake of UG & PGCourses**

**Please see the Website: <http://www.upseeuptu2015.in> or <http://www.uptu.ac.in>**

CERTIFICATE - 1 (प्रमाण पत्र-1)

अनुसूचित जाति/जनजाति (UPSC/UPST/GDSC/GDST)

(अभ्यर्थी के जन्म जिले के जिला मजिस्ट्रेट/प्रथम श्रेणी मजिस्ट्रेट द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0 ..... पुत्र/पुत्री श्री .....  
निवासी गाँव/शहर ..... तहसील ..... जिला .....  
प्रदेश ..... का जन्म ..... जाति में हुआ था और यह जाति अनुसूचित जाति/जनजाति  
आदेश (संशोधन) एक्ट 1956 के अन्तर्गत भारत सरकार/उत्तर प्रदेश शासन .....  
सरकार द्वारा मान्य अनुसूचित जाति/जनजाति है।

अभ्यर्थी के हस्ताक्षर

दिनांक

स्थान

हस्ताक्षर

नाम

मोहर

जिला अधिकारी / अतिरिक्त जिला अधिकारी/

सिटी मजिस्ट्रेट / परगना मजिस्ट्रेट / तहसीलदार

Note: Proforma of certificate shall be changed according to latest Govt. order.

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CERTIFICATE – 2 (प्रमाण पत्र-2)

उत्तर प्रदेश के अन्य पिछड़े वर्ग के लिए जाति प्रमाण पत्र का प्रपत्र (UPBC/GDBC)

यह प्रमाणित किया जाता है कि श्री/श्रीमती /कुमारी ..... सुपुत्र/सुपुत्री  
श्री .....निवासी ग्राम .....  
तहसील ..... नगर ..... जिला ..... उत्तर प्रदेश राज्य की  
..... पिछड़ी जाति के व्यक्ति हैं। यह जाति उत्तर प्रदेश लोक सेवा अनुसूचित जातियों ।  
अनुसूचित जनजातियों तथा पिछड़े वर्गों के लिए आरक्षण अधिनियम, 1994 की अनुसूची – 1 के अन्तर्गत  
मान्यता प्राप्त है।

यह भी प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी ..... उक्त  
अधिनियम 1994 की अनुसूची –2 (अधिसूचना संख्या –22/16/92-का 02/1995 टी0 सी0 दिनांक  
8 दिसम्बर, 1995 द्वारा यथा संशोधित) से आच्छादित नहीं है।

श्री/श्रीमती/कुमारी ..... तथा अथवा उनका परिवार उत्तर प्रदेश के  
ग्राम ..... श्री/श्रीमती/कुमारी ..... नगर .....  
जिला ..... में सामान्यतया रहता है।

अभ्यर्थी के हस्ताक्षर

दिनांक

हस्ताक्षर

नाम

स्थान

मोहर

जिला अधिकारी / अतिरिक्त जिला अधिकारी /

सिटी मजिस्ट्रेट / परगना मजिस्ट्रेट / तहसीलदार

नोट- अभ्यर्थी ध्यान दें कि उ0प्र0 के अन्य पिछड़े वर्ग के लिए जाति प्रमाण अप्रैल 01, 2015 के पश्चात का बना हुआ होना आवश्यक है क्योंकि कीमीलेयर के अन्तर्गत आने वाले अभ्यर्थियों को आरक्षण का लाभ अनुमन्य नहीं है।

**CERTIFICATE – 3 (प्रमाण पत्र–3)**  
उत्तर प्रदेश के मूल/सामान्य निवासी के पुत्र/पुत्री (UPGD/GDSC/GDST/GDBC)  
(उस जिले के अधिकारी द्वारा प्रमाणित जिस जिले के माता/पिता निवासी है)

यह प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के पिता/माता का नाम) .....  
पिता/माता श्री/कु0(अभ्यर्थी का नाम)..... उत्तर प्रदेश के  
गाँव/शहर ..... तहसील ..... जिला ..... के मूल  
निवासी हैं तथा श्री/कु0 (अभ्यर्थी का नाम) ..... अपने पिता/माता पर  
पूर्णतया आश्रित हैं। उक्त पते पर श्री/कु0 (अभ्यर्थी का नाम) ..... के  
माता/पिता सामान्यतः निवास करते हैं।

दिनांक  
स्थान

हस्ताक्षर जिला मजिस्ट्रेट  
पूरा नाम  
पदनाम  
मुहर (जिला मजिस्ट्रेट की सील)

जिला मजिस्ट्रेट अथवा जिला मजिस्ट्रेट द्वारा अधिकृत अपर जिला मजिस्ट्रेट/सब डिवीजन मजिस्ट्रेट द्वारा प्रमाण पत्र ही मान्य होंगे जो शा0आ0 सं0-157/तीन -2003-77(II)/83 दिनांक 18 फरवरी, 2003 के अधीन जारी किया जायेगा।

नोट- प्रमाण पत्र-3 अभ्यर्थी के माता/पिता का बना होना चाहिए क्योंकि अभ्यर्थी जिन्होंने अर्हकारी परीक्षा उत्तर प्रदेश के बाहर स्थित किसी विद्यालय से उत्तीर्ण की है परन्तु उनके माता/पिता उत्तर प्रदेश के मूल/स्थाई निवास हैं परीक्षा में बैठने के पात्र हैं।

**CERTIFICATE – 4 (प्रमाण पत्र–4) (Sub-Category UPPF)**

उत्तर प्रदेश लोक सेवा (शारीरिक रूप से विकलांग, स्वतंत्रता संग्राम सेनानी के आश्रितों और भूतपूर्व सैनिकों के लिए आरक्षण) अधिनियम, 1993 के अनुसार स्वतन्त्रता संग्राम सेनानी के आश्रित के प्रमाण पत्र का प्रपत्र

प्रमाणित किया जाता है कि श्री/श्रीमती (स्वतंत्रता संग्राम सेनानी का नाम) .....  
निवासी ग्राम ..... तहसील ..... नगर .....  
जिला ..... उत्तर प्रदेश लोक सेवा (शारीरिक रूप से विकलांग, स्वतंत्रता संग्राम सेनानी के आश्रितों और भूतपूर्व सैनिकों के लिए आरक्षण) अधिनियम 1993 के अनुसार स्वतन्त्रता संग्राम सेनानी हैं और श्री/श्रीमती/कु0(आश्रित अभ्यर्थी का नाम) .....  
पुत्र/पुत्री/पौत्र/अविवाहित पौत्री उपरांकित अधिनियम, 1993 के ही प्रावधानों के अनुसार उक्त श्री/श्रीमती (स्वतन्त्रता संग्राम सेनानी) ..... के आश्रित हैं।

दिनांक  
स्थान

हस्ताक्षर  
पूरा नाम एवं पदनाम  
मुहर (जिला मजिस्ट्रेट की सील)

Note: Proforma of certificate may be changed according to latest Govt. order.

**CERTIFICATE – 5 (प्रमाण पत्र-5)**  
**उत्तर प्रदेश/सेना दल (Sub-Category UPAF)**  
**(अंतिम यूनिट के आफिसर कमान्डिंग/जिला सैनिक कल्याण बोर्ड द्वारा प्रमाणित)**

यह प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के पिता अथवा माता का नाम) .....  
निवासी गाँव/शहर ..... तहसील ..... जिला .....  
.उत्तर प्रदेश, के दिनांक .....को सेवा निवृत्त (Superannuated) युद्ध में मारे गये/अपंग हो  
गये/उत्तर प्रदेश में वर्तमान में तैनात है। वे भारतीय थलसेना/जलसेना/वायुसेना के स्थान .....  
..... दिनांक..... से दिनांक ..... तक कार्यरत थे/हैं।

दिनांक  
स्थान

यूनिट कमान्डिंग आफिसर के हस्ताक्षर  
नाम  
मोहर

**(जिला मजिस्ट्रेट द्वारा प्रमाणित)**

यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी) ..... निवासी .....  
.उत्तर प्रदेश गाँव/शहर ..... तहसील ..... जिला ..... उपरोक्त  
सेना दल के सेवा निवृत्त (Superannuated) युद्ध में मारे गये या अपंग हो गये कर्मचारी जो उत्तर प्रदेश के  
स्थायी निवासी हैं/थे, के पुत्र/पुत्री हैं अथवा प्रवेश परीक्षा की तिथि ( **अप्रैल 18/19 अप्रैल, 2015**) को  
उत्तर प्रदेश भारतीय थलसेना/जल सेना/वायुसेना में कार्यरत थे/हैं।

दिनांक  
स्थान

हस्ताक्षर  
नाम  
मोहर

**CERTIFICATE – 6 (प्रमाण पत्र-6) (Sub-Category UPHC) (काउन्सिलिंग में जमा करने हेतु)**  
**शारीरिक विकलांग के अधिमान के लिए प्रमाण पत्र (मुख्य चिकित्सा अधिकारी द्वारा प्रमाणित)**

- 1- यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी) .....पुत्र/पुत्री श्री  
(पिता का नाम) .....नीचे लिखे कारणों से शारीरिक रूप से विकलांग हैं।  
(केवल मुख्य चिकित्सा अधिकारी ही कारण लिखें).....
2. अभ्यर्थी की उपरोक्त विकलांगता को निम्न प्रकार की विकलांगता की श्रेणी में रखा जा सकता है।  
(कृपया ✓ का निशान लगायें)

Type - I: Minimum 40% permanent Visual impairment	
Type-II: Minimum 40% permanent Locomoter disability	
Type-III: Minimum 40% permanent Speech Hearing impairment	

- 3- यह भी प्रमाणित किया जाता है कि उपरोक्त विकलांग स्थिति अभ्यर्थी के इन्जीनियरिंग शिक्षा प्राप्त करने में बाधक नहीं होगी।

अभ्यर्थी के हस्ताक्षर  
नाम  
दिनांक

चिकित्साधिकारी के हस्ताक्षर  
नाम  
मुहर

**CERTIFICATE – 7 (प्रमाण पत्र-7)**

उत्तर प्रदेश ग्रामीण क्षेत्र के लिये अधिमान (UPGE)  
(कालेज के प्रधानाचार्य द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी) ..... ने .....  
..... कालेज गाँव ..... से इण्टरमीडिएट की शिक्षा प्राप्त की। यह  
कालेज तहसील ..... जिला ..... उत्तर प्रदेश के ग्रामीण क्षेत्र में  
स्थित है तथा ग्राम पंचायत के कार्य क्षेत्र के सीमा के अन्दर है और यह क्षेत्र औद्योगिक विकसित क्षेत्र नहीं  
है।

दिनांक

हस्ताक्षर

स्थान

नाम

मुहर

(जिला विद्यालय निरीक्षक एवं जिला मजिस्ट्रेट द्वारा प्रमाणित)

प्रधानाचार्य द्वारा दिया गया कालेज की स्थिति से संबंध उपरोक्त वक्तव्य प्रमाणित किया जाता है।

दिनांक

हस्ताक्षर जिला विद्यालय निरीक्षक

स्थान

नाम

मुहर

दिनांक

प्रति हस्ताक्षरित जिला मजिस्ट्रेट

स्थान

नाम

मुहर

CERTIFICATE – 8 (प्रमाण पत्र-8)

CHARACTER CERTIFICATE FROM THE HEAD OF  
THE INSTITUTION LAST ATTESTED

This is to certify that Sri / Km. \_\_\_\_\_  
has been a bonafide student of \_\_\_\_\_  
from \_\_\_\_\_ to \_\_\_\_\_ and  
has passes / appeared at the \_\_\_\_\_  
examination in the year \_\_\_\_\_

**Proctorial reports:**

1. Has he / she involved himself / herself if any act of indiscipline? Yes / No
2. Has he / she been warned, Fined or punished for any act of indiscipline? Yes / No
3. Has he / she been restricted or expelled from Hostel of College for any reason? Yes/ No
4. Has he / she been involved in any act of indisiple outside the College campus like group clashes or fraction fights etc. Yes/ No
5. Has he / she been addicted to drugs or intoxicants? Yes/ No

**General remarks (Please state your assessment of the student)**

**Date :**

**Signature** \_\_\_\_\_

**Name** \_\_\_\_\_

**Designation** \_\_\_\_\_

CERTIFICATE – 9 (प्रमाण पत्र-9)

**\* FORMAT FOR MEDICAL CERTIFICATE**

**(To be obtained from a Chief Medical Officer or Medical Officer of a participating U.P. State Funded Engg. Institute)**

This certificate has to be submitted at the time of admission in the college allotted.

Name of Candidate:		Age:	Sex:
UPSEE-2015 Roll No.:		Category:	Subcategory & Weighatge:
State Rank Position:		Father's Name:	
<b>( To be filled in by the Candidate )</b>			
L.T. Height	M.I. Weight	Chest Abdomen	VISION Colour Vision: Without glass: With glass:
History	Operation	Kockh's	Colics
	Seizures	Asthma	Piles
			B.P. Diabetes
E X A M I N A T I O N	Pulse	Tonsil	DNS
	Pallor	L.Nodes	CSOM
	Cardiovascular		CNS
	Respiratory		GIT
	Genitourinary		Others
Is the candidate physically handicapped/Disabled:		<input type="checkbox"/>	(Please tick) Yes / No
If yes, type of handicap/disability:		<input type="checkbox"/>	Type -I: Minimum 40% permanent Visual impairment
(Please tick ✓ the type of handicap/disability)		<input type="checkbox"/>	Type-II: Minimum 40% permanent Locomoter disability
		<input type="checkbox"/>	Type-III: Minimum 40% permanent speech and Hearing impairment
Any other finding:			
Certified that the candidate is physically fit/unfit/temporally disqualified to pursue engineering studies			

Signature of Candidate

Signature of the issuing Medical Officer ( with Official stamp)

**CERTIFICATE – 10 (प्रमाण पत्र—10)**

**UNDERTAKING BY CANDIDATE FOR MEDICAL FITNESS**

I certify that I have no such physical handicap/disability which would hinder the pursuit of studies in the courses in which I am seeking admission. If at stage it is found that I have a physical handicap/ disability which would hinder the pursuit of studies in the courses in which I am seeking admission then my admission will be liable to be cancelled. I will produce medical fitness certificate from a C.M.O./C.M.S. at the time of my joining the institution allotted by UPSEE-2015 counselling.

Dated:

Counter Signed by Father / Guardian

Signature of the Candidate

CERTIFICATE – 11 (प्रमाण पत्र-11)

अखिल भारतीय सेवा के उ0प्र0 कैंडर के अधिकारियों/कर्मचारियों हेतु

प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के माता/पिता का नाम) .....  
पदनाम .....विभाग का नाम ..... कैंडर संख्या .....  
.अखिल भारतीय सेवा के उ0प्र0 कैंडर के अधिकारी/कर्मचारी है तथा वर्तमान में इस कार्यालय में कार्यरत  
हैं। यह प्रमाण पत्र इनके पुत्र/पुत्री (अभ्यर्थी का नाम) .....को उ0प्र0  
प्राविधिक विश्वविद्यालय, लखनऊ के अन्तर्गत प्रवेश हेतु प्रदान किया जाता है।

दिनांक: .....

विभागाध्यक्ष/कार्यालयाध्यक्ष का हस्ताक्षर  
नाम एवं पदनाम  
मुहर

CERTIFICATE-12 (प्रमाण पत्र-12)

(Income Certificate) (काउन्सिलिंग में जमा करने हेतु)

क्षेत्रीय भूलेख निरीक्षक तथा लेखपाल की जांच रिपोर्ट के आधार पर प्रमाणित किया जाता है कि  
----- (आवेदक के अभिभावक/माता/पिता का नाम) सुपुत्र  
----- निवासी/ग्राम ----- परगना  
----- तहसील ----- नगर ----- जिला  
----- राज्य ----- के स्वयं की मासिक आय रूपया  
----- तथा वार्षिक आय रूपया ----- है।  
लेखपाल की रिपोर्ट के अनुसार आय का स्रोत ----- है।

स्थान:

दिनांक:

तहसीलदार  
मुहर

नोट— अभ्यर्थी ध्यान दें कि उ0प्र0 के आर्थिक रूप से कमजोर अभ्यर्थियों के लिए प्रमाण पत्र अप्रैल 01,  
2015 के पश्चात का बना हुआ होना आवश्यक है।

**LIST OF EXAMINATION CITIES IN UTTAR PRADESH**

1	Agra
2	Aligarh
3	Allahabad
4	Ambedkar Nagar (Akbarpur)
5	Amethi
6	Amroha
7	Auraiya
8	Azamgarh
9	Baghpat
10	Bahraich
11	Ballia
12	Balrampur
13	Banda
14	Barabanki
15	Bareilly
16	Basti
17	Bijnor
18	Budaun
19	Bulandshahar
20	Chandauli
21	Chitrakoot
22	Deoria
23	Etah
24	Etawah
25	Faizabad
26	Farukhabad
27	Fatehpur
28	Firozabad
29	Gautam Buddha Nagar (Noida/ G.Noida)
30	Ghaziabad
31	Ghazipur (District of U.P.)
32	Gonda
33	Gorakhpur
34	Hamirpur
35	Hapur
36	Hardoi
37	Hathras
38	Jalaun (Orai)

39	Jaunpur
40	Jhansi
41	Kannauj
42	Kanpur Dehat
43	Kanpur Nagar
44	Kasganj
45	Kaushambi
46	Kushi Nagar
47	Lakhimpur Kheri
48	Lalitpur
49	Lucknow
50	Maharajganj
51	Mahoba
52	Mainpuri
53	Mathura
54	Mau
55	Meerut
56	Mirzapur
57	Moradabad
58	Muzaffar Nagar
59	Pilibhit
60	Pratapgarh
61	Raebareli
62	Rampur
62	Saharanpur
64	Sambhal
65	Sant Kabir Nagar (Khalilabad)
66	Sant Ravidas Nagar (Bhadohi)
67	Shahjahanpur
68	Shamali
69	Shravasti
70	Siddharth Nagar
71	Sitapur
72	Sonbhadra
73	Sultanpur
74	Unnao
75	Varanasi

**LIST OF EXAMINATION CITIES IN OTHER STATE**

76	Delhi
77	Bhopal
78	Ranchi
79	Dehradun

80	Patna
81	Jaipur
82	Bhagalpur (Bihar)
83	Chandigarh

## अनुसूचित जाति, अनुसूचित जनजाति एवं ओबीसी जातियों के नाम \*

### अनुसूचित जातियों की सूची

1. अगरिया 2. बधिक 3. बादी 4. बहेलिया 5. बैगा 6. बैसवार 7. बजनिया 8. बाजगी 9. बलहार 10. बलाई
11. बाल्मीकि 12. बंगाली 13. बनमानुष 14. बांसफोर 15. बरवार 16. बसोर 17. बावरिया 18. बेलदार 19. बेरिया
20. भंतू 21. भुईया 22. भुईयार 23. बोरिया 24. चमार, धुसिया, झुसिया, जाटव 25. चेरो 26. दबगर 27. धांगर
28. धनुक 29. धरकार 30. धोबी 31. डोम 32. डोमर 33. दुसाध 34. घरामी 35. घसिया 36. गोंड 37. गुवाल
38. हाबुरा 39. हरी 40. हेला 41. कलाबाज 42. कंजर 43. कापरिया 44. करवल 45. खैरहा 46. खरवार(बेनबांसी को छोड़कर)
47. खटीक 48. खोरोट 49. कोल 50. कोरी 51. कोरवा 52. लालबेगी 53. मझवार 54. मजहबी
55. मुसहर 56. नट 57.पंखा 58.परहिया 59.पासी, तरमाली 60.पटारी 61.रावत 62.सहारया 63.सनौरिहया
- 64.सांसिया 65. शिल्पकार 66.तुरैहा

### अनुसूचित जनजातियों की सूची

1. भोटिया 2. बुक्सा 3. जौनसारी 4. राजी 5. थारू

### ओबीसी (अन्य पिछड़ा वर्ग) जातियों की सूची

1. अहीर, यादव, ग्वाला, यदुवंशीय 2. सोनार, सुनार, स्वर्णकार 3. जाट 4. कुर्मी, चनऊ, पटेल, पटनवार, कुर्मी-मल्ल, कुर्मी-सैथवार
5. गिरी 6. गूजर 7. गोसाई 8. लोध, लोधा, लोधी, लोट, लोधी राजपूत 9. कम्बोज 10. अरख, अर्कवंशीय
- 11.काछी, काछी-कुशवाहा, शाक्य 12. कहार, कश्यप 13.केवट, मल्लाह, निषाद 14. किसान 15. कोइरी
16. कुम्हार, प्रजापति 17. कसगर 18. कुजड़ा या राईन 19. गड़ेरिया, पाल, बघेल 20.गद्दी, घोसी 21. चिकवा, कस्साब, कुरेशी, चक
- 22.छीपी, छीपा 23.जोगी 24.झोजा 25. डफाली 26. तमोली, बरई, चौरसिया 27.तेली, सामानी, रोगनगर, साहू, रौनियार, गन्धी, अर्काक
28. दर्जी, इदरीसी, काकुत्स्थ 29. धीवर 30. नक्काल 31.नट ( जो अनुसूचित जातियों की श्रेणी में सम्मिलित न हो)
- 32.नायक 33.फकीर 34.बंजारा, रंकी, मुकैरी, मुकैरानी 35.बढ़ई, सैफी, विश्वकर्मा, पांचाल, रमगढ़िया, जागिड़, धीमान
36. बारी 37.बैरागी 38.बिन्द 39.बियार 40. भर, राजभर 41.भुर्जी, भड़भुजा, भूँज, कांदू, कशोधन
- 42.भठियारा 43.माली, सैनी 44.स्वीपर (जो अनुसूचित जातियों की श्रेणी में सम्मिलित न हो), हलालखोर
- 45.लोहार, लोहार-सैफी 46.लोनिया, नोनिया, गोले-ठाकुर, लोनिया-चौहान 47.रंगरेज, रंगवा 48. मारछा
49. हलवाई, मोदनवाल 50.हज्जाम, नाई, सलमानी, सविता, श्रीवास 51.राय सिक्ख 52.सक्का-भिश्ती, भिश्ती-अब्बासी
- 53.धोबी (जो अनुसूचित जातियों या अनुसूचित जनजातियों की श्रेणी में सम्मिलित न हो) 54. कसेरा, ठठेरा, ताम्रकार
- 55.नानबाई 56.मीरशिकार 57.शेख सरवारी (पिराई), पीराही 58. मेव, मेवाती 59.कोष्टा/कोष्टी 60.रोड़
- 61.खुमरा, संगतराश, हंसीरी 62.मोची 63.खागी 64.तंवर सिंघाड़िया 65.कतुआ 66.माहीगीर 67.दांगी 68.धाकड़
- 69.गाडा 70.तंतवा 71.जोरिया 72.पटवा, पटहारा, पटेहरा, देववंशी 73. कलाल, कलवार, कलार 74.मनिहार, कचेर, लखेरा
- 75.मुराव, मुराई, मौर्य 76.मोमिन(अंसार) 77.मुस्लिम कायरथ 78.मिरासी 79.नद्दाफ (धुनिया), मन्सूरी, कन्डेरे, कड़ेरे, करण(कर्ण)।

**नोट:1.** शासन के नवीनतम आदेशों के तहत काउन्सिलिंग की तिथि तक कभी भी संशोधित हो सकता है।

2. जिन अभ्यर्थियों के पास विमुक्त जाति का प्रमाण पत्र है उन्हें अनुसूचित जाति अथवा अनुजनजाति अथवा अन्य पिछड़ा वर्ग का लाभ तभी अनुमन्य होगा जब वे अनुसूचित जाति अथवा अनुजनजाति अथवा अन्य पिछड़ा वर्ग का अलग से सम्बन्धित प्रारूप पर निर्गत प्रमाण पत्र काउन्सिलिंग के समय प्रस्तुत करेंगे अन्यथा ऐसे अभ्यर्थियों को सामान्य श्रेणी के अन्तर्गत ही सीट आवंटित हो सकेगी।



## IMPORTANT DATES

Filling and Submission of <b>On-Line</b> Application Form For admission to Ist Year in B.Tech/B.Tech (Agriculture Engineering)/B.Arch/ B.Pharm./ BHMCT/ BFAD/ BFA/MBA/MCA/MAM	25 <sup>th</sup> February, 2015 to 04 <sup>th</sup> April, 2015
Filling and Submission of <b>On-Line</b> Application Form For admission to 2 <sup>nd</sup> Year in B.Tech./B.Pharm./MCA (Lateral Entry)	25 <sup>th</sup> February, 2015 to 04 <sup>th</sup> April, 2015
Filling and Submission of <b>Off-Line</b> Application Form For admission to I <sup>st</sup> Year in B.Tech/ B.Tech (Agriculture Engineering)/B.Arch/ B.Pharm./BHMCT/BFAD/BFA/MBA/MCA/MAM Through Designated Help-Desks (Affiliated Institutions of UPTU)	25 <sup>th</sup> February, 2015 to 04 <sup>th</sup> April, 2015
Filling and Submission of <b>Off-Line</b> Application Form For admission to 2 <sup>nd</sup> Year in B.Tech./B.Pharm./MCA (Lateral Entry) Through Designated Help-Desks (Affiliated Institutions of UPTU)	25 <sup>th</sup> February, 2015 to 04 <sup>th</sup> April, 2015
Last date of Receipt of " <b>Confirmation Page</b> " alongwith Challan (if applicable) in the office of Registrar, UPSEE-2015, Uttar Pradesh Technical University, IET Campus, Sitapur Road, Lucknow-226021 (U.P.)	09 <sup>th</sup> April, 2015

## SCHEDULE OF EXAMINATION

Date of Examination	Paper Code	Subjects	Timing (Total Time Period)
18 <sup>th</sup> April, 2015 (Saturday)	Paper 09/ Paper 11	Aptitude Test for MBA/ Aptitude Test for MAM	10:00 AM – 12:00 Noon (2 Hours )
	Paper 10	Aptitude Test for MCA	1:00 PM – 3:00 PM (2 Hours )
	Paper 12	Aptitude Test for 2 <sup>nd</sup> Year MCA (Lateral Entry)	4:00 PM –6:00 PM (2 Hours )
19 <sup>th</sup> April, 2015 (Sunday)	Paper 6/ Paper 7/ Paper 8	Aptitude Test for Diploma Holders in Engg. / Aptitude Test for Diploma Holders in Pharmacy / Aptitude Test for B.Sc. Graduates	7:30 AM to 9:00 AM (1 Hour 30 Minutes)
	Paper 1/ Paper 2/ Paper 3	Physics, Chemistry and Mathematics / Physics, Chemistry and Biology / AG-I, AG-II and AG-III	10:00 AM to 1:00 PM (3 Hours)
	Paper 4	Aptitude Test for Architecture	2.00 PM to 4:30 P.M. ( 2 Hours 30 Minutes)
	Paper 5	Aptitude test for General Awareness (BHMCT/BFAD/BFA)	5:00 PM to 6:30 PM (1 Hour 30 Minutes)

**U.P. STATE ENTRANCE EXAMINATION**  
**Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh**  
(Formerly U.P. Technical University, Lucknow)  
IET Campus, Sitapur Road, Lucknow

**INFORMATION BROCHURE**

[UPDATED]

**UPSEE – 2016**

**For Admission to**

**First Year of B. Tech /B.Arch. / B.Pharm./  
BHMCT/BFAD/BFA/MBA/MCA/MAM  
And  
2<sup>nd</sup> Year of B. Tech./B.Pharm./MCA (Lateral Entry)**

***Last Date for Submission of Application:***  
**March 27, 2016 (05:00 PM)**

***Date of Examinations:***  
**April 17, 2016 (Sunday)**  
**and**  
**April 23, 2016 (Saturday) & April 24, 2016 (Sunday)**

**Website**

**<http://www.upsee.nic.in>**

**Help Desk**

Toll free Number : 1800-180-0161

E-Mail : helpdesk.upsee2016@gmail.com

**Contact Address:**

Registrar

**Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh**

IET Campus, Sitapur Road, Lucknow – 226 021 (U.P)

Phone: 0522 – 2732193, Fax: 0522 – 2732185

E-Mail: registrar@uptu.ac.in

Website: **<http://www.aktu.ac.in>**

## IMPORTANT INSTRUCTIONS

For Admission to First Year of B. Tech / B.Tech (Biotechnology)/B.Tech(Agriculture Engg.)/B.Arch. / B.Pharm./ BHMCT/BFAD/BFA/MBA/MCA/MAM and 2<sup>nd</sup> Year (Lateral Entry) of B. Tech/B.Pharm./MCA

1. **Application to the UPSEE-2016 can be made through submission of On-Line Application Form only. Interested** Candidates are required to fill the Application Form On-Line through the website <http://www.upsee.nic.in>.
2. On-Line application form through the website <http://www.upsee.nic.in> can be submitted from **24<sup>th</sup> February, 2016, 11:00 AM upto 27<sup>th</sup> March, 2016, 05:00 PM.**
3. Candidates are advised to read this Information Brochure carefully, check their eligibility and applicable reservation category etc. before filling and submitting the application form.
4. This Entrance Examination is open to the candidates who have passed the qualifying examination from any institution located in U.P. or whose parents are domicile of U.P subject to the eligibility conditions given in this Information Brochure. If the candidate has passed qualifying examination from outside U.P., he/she has to produce domicile certificate of his/her parents (**Father OR Mother only**) at the time of verification of the document.
5. **This Entrance Examination is also open to the candidates who have passed the qualifying examination from any institution located outside U.P. and whose parents (both Father and Mother) are not domicile of U.P subject to the eligibility conditions given in this Information Brochure.**
6. For submission of the On-Line application form refer section 18, 19, 20 and 21 of this Information Brochure.
7. Please note that candidates do not need to send "Confirmation Page" printed after completion and submission of On-Line application form to the University. However, the printout of the Confirmation page should be kept for record. Candidates are also advised to note down **the Application Form Number** for any future correspondences.
8. Candidates do not need to send hard copy / photo copy of any document, whatsoever, to the University at this stage.
9. **State Govt. has permitted 10% of the total sanctioned seats available in Technology / Architecture courses in private institutions affiliated to AKTU to be filled through combined merit of U.P. Domicile and Non U.P. Domicile candidates without reservation subject to eligibility conditions given in this Information Brochure. Thus, 10% of the total sanctioned seats in Technology / Architecture courses in Private Institutions, affiliated to AKTU, shall also be opened to the candidates whose parent belongs to the State other than Uttar Pradesh and has passed qualifying examination from an Institution located outside U.P. These seats shall be filled on the basis of UPSEE-2016 Merit.**
10. There is no age limit for admission to the courses covered in UPSEE-2016.
11. Accepting admission in any institution implies acceptance by the candidate and his/her parents or guardians with all the provisions given in this Information Brochure. Any change in the rules, regulations, fee and special conditions etc. of that institution shall mutandis apply to the admitted candidate.
12. Candidates filling the On-Line Application Form are required to upload scanned images of his/her latest color photograph, left hand thumb impression and signature. Application forms having blurred photographs are liable to be rejected.
13. Candidates claiming advantage of reserved categories, subcategories, rural weightage etc. are required to indicate the same in the Application Form and are not required to send any certificate to the University at this stage. These certificates, in original, will have to be produced at the time of Document Verification alongwith one self attested copy of each one of them. The proforma of the certificates are given at the end of this Information Brochure at **Appendix-D**, which are subject to change even upto the date of admission, as per the orders of Govt. of Uttar Pradesh. **Note that the certificate no. 2 for OBC candidates will be entertained only if it is issued on or after 01.04.2016 (mandatory due to condition of creamy layer for OBC).**
14. Candidates who are due to appear for the qualifying examination or have appeared, but results are awaited, are also eligible to appear in the UPSEE-2016. However, the candidates in respect of whom, the result of the qualifying examination has not been declared till the date of the document verification, due to any reason whatsoever, shall not be eligible for admission under any circumstances.
15. The result of UPSEE-2016 declared by Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow shall be final. However, the candidate can get his/her answer sheets scrutinized on payment of Rs. 5000/- per paper within seven days of declaration of result. The application for scrutiny may be submitted to the Registrar, Dr. A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow (U.P.) 226021 in writing.

16. If any document/declaration submitted by the candidate is found to be false at any stage, his/her admission shall be cancelled and he/she may be liable for prosecution under the law. In case of any legal dispute, the jurisdiction will be limited to Lucknow courts only.
17. The candidate must himself/ herself ensure about his/her eligibility to appear in the Entrance Examination. If a candidate, who is not eligible to appear in the examination, does so; he/ she will not have any claim whatsoever, for admission to any course through UPSEE-2016.
18. The Entrance Examination Fee for UPSEE-2016 is **Rs. 1000/- for Male/Transgender candidates of General & OBC category and Rs. 500/- for Female candidates/ Physically Handicapped candidates of all categories and SC/ST candidates.**
19. The number of Colleges / Institutions, courses and seats may increase or decrease upto the counselling dates.
20. If any of the qualifying examination Board/University awards only letter grades without providing an equivalent percentage of mark on the grade sheet, the candidate should obtain a certificate from the Board/ University specifying equivalent marks and submit it at the time of document verification. In case, such a certificate is not provided by the candidate, the decision of the Central Admission Board (**CAB**) regarding his / her eligibility shall be final.
21. The allotment of seat through counselling will be carried out strictly in accordance with the UPSEE-2016 merit of the candidate, subject to the order of preference given for the seats and availability of seat in the category. **Once the seat is allotted to the candidate, no change in the Institution / Branch is admissible.**
22. **The fee paid at the time of counselling by the candidate after the allotment of seat will be forfeited** and will not be refunded under any circumstances, if the candidate does not report for the admission to the allotted institutions.
23. **No tuition fee shall be charged from eligible SC/ST candidates** by the institutions affiliated to AKTU, Lucknow at the time of granting admission as per U.P. Govt. order no. 37 Bha.Saa./26-03-04-4(77)/02 dated:18-06-04. A relaxation in the **tuition fee amount equal to tuition fee of Government Institutions** has been granted to OBC / General Category economically weaker students by the Govt. vide order no. 4136/solah-1-2008-135/2008 dated: 8-10-08 and 2991/solah-1-2008-14(34)/2008 dated: 16-09-08. The candidate will have to produce the required prescribed certificate / documents in the institution as enforced vide G.O. no. 6048/solah-1-2008-1(17)/2008 dated 06-01-08. Govt. orders released time to time shall be applicable. The institutions will charge tuition fee after granting this relaxation to the eligible candidates as per the current fee structure determined by the fee determination committee available at website [www.afrcup.in](http://www.afrcup.in).
24. This Information Brochure is both in English and Hindi languages. In case of any discrepancy, the **English version shall be final** for all purposes.
25. All information in connection with UPSEE-2016 shall be made through University Website <http://www.upsee.nic.in> or <http://www.aktu.ac.in>. The candidates are advised to refer to this website regularly/frequently failing which AKTU will not be responsible for any loss due to the lack of communication.
26. In case of any deficiency in application form, it is likely to be rejected and sole responsibility of its consequences will lie on the candidate and representation in this regard shall not be entertained.
27. Abbreviations used:
 

<b>AKTU</b>	-	Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow
<b>UPSEE-2016</b>	-	Uttar Pradesh State Entrance Examination - 2016
<b>B. Tech.</b>	-	Bachelor of Technology
<b>B. Pharm.</b>	-	Bachelor of Pharmacy
<b>B. Arch.</b>	-	Bachelor of Architecture
<b>BHMCT</b>	-	Bachelor of Hotel Management & Catering Technology
<b>BFAD</b>	-	Bachelor of Fashion & Apparel Design
<b>BFA</b>	-	Bachelor of Fine Arts
<b>MBA</b>	-	Master of Business Administration
<b>MCA</b>	-	Master of Computer Application
<b>MAM (Dual Degree)</b>	-	Master of Applied Management (Dual Degree)

**Note: UPSEE-2016 is being conducted for admission to all the Technical Institutions / Colleges affiliated to the AKTU, Lucknow. Admissions in some of the courses in the other Universities of U.P. are also done through UPSEE-2016.**

**U P STATE ENTRANCE EXAMINATION (UPSEE – 2016)**  
**For Admission to First Year of B. Tech. /**  
**B.Tech.(Biotechnology)/B.Tech.(Agriculture Engg.)/ B.Arch. / B.Pharm./**  
**BHMCT/BFAD/BFA/MBA/MCA/MAM**  
**and**  
**2<sup>nd</sup> Year (Lateral Entry) of B.Tech./B.Pharm./MCA**

**1. CENTRAL ADMISSION BOARD (CAB)**

The entrance examination for degree level engineering institutions and other professional colleges has been assigned to Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow vide Govt. order no. 590/solah-1-2016-14(54)/2012 dated 10-02-2016. The Govt. of Uttar Pradesh, Technical Education Department, has consented for the constitution of Central Admission Board (CAB) under the Chairmanship of the Vice Chancellor, Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow to supervise and control the State Entrance Examination herein after referred as UPSEE-2016 being conducted by Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow. The CAB has absolute rights for conducting of UPSEE-2016, and to decide about modalities of admissions and allotment of seats. The jurisdiction of CAB extends to colleges / institutes affiliated to AKTU, Lucknow. The CAB is authorised to take every decision regarding conduct and admissions through UPSEE-2016.

**2. MODE OF ADMISSION**

**2.1 ADMISSION TO FIRST YEAR**

The Entrance Examination for admission to first year of the following courses offered at the Institutions affiliated to AKTU, Lucknow including other mentioned universities situated in territory of Uttar Pradesh for the academic year 2016-2017 shall be conducted by Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow.

- |   |                                    |
|---|------------------------------------|
| (i) 4 years B. Tech./B.Tech. (Ag. Engg.) Course | (vi) 4 years BFA Courses           |
| (ii) 4 years B.Pharm. Course                    | (vii) 3 years MCA Course           |
| (iii) 5 years B.Arch. Course                    | (viii) 2 years MBA Course          |
| (iv) 4 years BHMCT Course                       | (ix) 5 years integrated MAM Course |
| (v) 4 years BFAD Course                         |                                    |

**2.2 DIRECT ADMISSION (LATERAL ENTRY) TO SECOND YEAR OF B.TECH./ B.PHARM./MCA**

- (i)<sup>1</sup> The eligible candidates (Refer clause 3.3) seeking direct admission to second year of B.Tech. (for engineering diploma holders and B.Sc. graduates) or B.Pharm. (Only for pharmacy diploma holders) or MCA (for BCA, B.Sc (IT/ Computer Science) degree holders) in institutions affiliated to AKTU, Lucknow are required to submit the application forms by the last date. Such candidates are also required to appear in the specified paper of entrance examination.

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<sup>1</sup> As per AICTE Notifications F-11-140/2004-NRO/AICTE-33 dated 9-06-2004 & F.37-3/Legal/2007 dated 12.01.07 and U.P.Govt. Order no. 256 / Solah – 1 – 2007 – 1(01) / 2005 dated 14.02.07.

- (ii)<sup>2</sup> Such seats are limited to a maximum of 20% in addition to the sanctioned intake in institutions/ colleges for different courses at first year level. However for B.Tech., the students belonging to the B.Sc. stream shall be considered only after filling the seats in this category with students of Diploma stream.
- (iii) Direct admission to Second year shall not be made in B.Arch./BHMCT/BFAD/BFA/MBA/MAM Courses.

### **2.3 SEATS UNDER DIFFERENT SCHEME IN FIRST YEAR**

- (i) Number of admissions in all courses offered at Institutions affiliated to AKTU, Lucknow, will be only through UPSEE-2016, after deducting the seats filled under clause 2.4.
- (ii) State Govt. has permitted 15%<sup>£</sup> of total sanctioned seats available in Private Institutions to be filled by the NRI candidates under Management quota; and the same shall be filled up in accordance with the procedure prescribed in the Govt. orders. The remaining seats in various courses offered at all the Institutions affiliated to AKTU, Lucknow will be filled through UPSEE-2016 counselling.
- (iii) **State Govt. has permitted 10% of the total sanctioned seats available in Technology / Architecture courses in private institutions affiliated to AKTU to be filled through combined merit of U.P. Domicile and Non U.P. Domicile candidates without reservation subject to eligibility conditions given in this Information Brochure. Thus, 10% of the total sanctioned seats in Technology / Architecture courses in Private Institutions, affiliated to AKTU, shall also be opened to the candidates whose parent belongs to the State other than Uttar Pradesh and has passed qualifying examination from an Institution located outside U.P. These seats shall be filled on the basis of UPSEE-2016 Merit.**
- (iv) State Govt. has also permitted 20% of the total sanctioned seats of MBA in Private Institutions to be filled on the basis of latest CMAT-2016 merit (Common Management Admission Test).
- (v) Thus, 65% seats available in MBA and 85% seats in the first year of remaining courses at all Private Institutions will be filled by the UPSEE-2016 qualified candidates.

### **2.4 ADMISSION TO NON-RESIDENT INDIAN (NRI) CANDIDATES IN FIRST YEAR**

NRI candidates, who possess prescribed qualifications (clause 3.4), may get direct admission on 5% seats of total intake in Govt. / Govt. aided and Private Institutions having approval from AICTE for NRI seats on merit, subject to the latest instructions of Govt. of U.P. The detailed information will be published in the month of May 2016 in various newspapers and university website. The candidates, seeking for admission under this scheme, need not appear in UPSEE-2016. However applicants opting B.Arch. course under this category has to appear in an Aptitude Test on the day of counseling to be notified later.

### **2.5 ADMISSION TO KASHMIRI MIGRANTS IN FIRST YEAR**

Direct admission to Kashmiri Migrants in first year in each institute is to be made as per the latest instructions of AICTE and orders from U.P. Govt. Such admissions will be over and above the sanctioned intake and normally limited upto one admission per Institute affiliated to AKTU, Lucknow. The detailed information will be published in the month of May 2016 in various newspapers and University website <http://www.aktu.ac.in>. The candidates, opting for admission under this scheme, need not appear in UPSEE-2016.

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<sup>2</sup> Subject to change as per latest orders of Govt. of U.P. / AKTU upto the date of counselling.

<sup>£</sup> It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling.

## 2.6 ADMISSION TO FOREIGN NATIONALS (FN) / PERSONS OF INDIAN ORIGIN (PIO) / CHILDREN OF INDIAN WORKERS IN GULF COUNTRIES (CIWGC)

Under the approval of AICTE, identified institutions shall admit **FN/PIO/CIWGC** up to the extent sanctioned by AICTE as per the eligibility criteria (clause 3.5) and guidelines of the University. These supernumerary seats shall be exclusively meant for the FN/PIO/CIWGC students in undergraduate courses with the condition that under no circumstances a seat remained unfilled shall be allocated to candidates other than a FN/PIO/CIWGC. The candidates, opting for admission under this scheme, need not appear in UPSEE-2016.

## 2.7 ADMISSION TO FEE WAIVER SEATS FOR ECONOMICALLY WEAKER MERITORIOUS STUDENTS

As per AICTE notification fee waiver seats for economically weaker meritorious candidates are also available in B.Tech/ B.Arch/ B.Pharm/B.HMCT/B.FAD/BFA courses in all institutions affiliated to AKTU, Lucknow. No tuition fee will be charged from the such candidates admitted against such seats. The fee waiver seats will be limited to maximum of 5% of the approved intake in the course, and will be over and above of the sanctioned intake. **The economically weaker students must submit certificate no. 12 (Income Certificate) at the time of verification of documents.**

## 3. ELIGIBILITY CRITERIA

The candidates must fulfill the eligibility criteria as given in clause 3.1/3.2/3.3 to appear in UPSEE-2016. However, the candidates appearing in the qualifying examinations are also eligible to appear, subject to the condition that they must fulfill the eligibility criteria as given in clause 3.1/3.2/3.3 at the time of counselling.

### 3.1 ELIGIBILITY TO APPEAR IN UPSEE-2016 FOR ADMISSION TO FIRST YEAR OF B.TECH. / B.PHARM. / B.ARCH. / BHMCT / BFAD / BFA

- (i) The subject combination required in the **qualifying examination** (intermediate examination of U.P. Board or 10+2 level examination or its equivalent) for admission to first year of different courses shall be as follows:

Course	Compulsory Subjects	Anyone of the following Subjects
B. Tech.	Physics & Mathematics	Chemistry/ Bio-Technology / Biology / Technical Vocational subject
B. Tech.(Bio-Technology)	(i) Physics & (ii) Mathematics OR Biology	Chemistry/ Bio-Technology / Technical Vocational subject
B. Pharm.	Physics & Chemistry	Mathematics/ Bio-Technology/ Biology / Technical Vocational Subject
B. Arch.	Mathematics & Physics	Chemistry/ Computer Science/ Biology/ Engineering Drawing / Technical Vocational subject
B.Tech. (Agriculture Engg.)	Agriculture discipline. *	
BHMCT / BFAD/BFA	Any discipline.	

- (ii) For admission to first year of B.Tech./ B.Pharm., candidate must have clearly passed intermediate examination of U.P. Board or 10+2 level examination or its equivalent from any recognized Board / University without grace in required each compulsory subjects and one optional subject as given in clause 3.1 (i) and securing minimum 45% marks (40% marks for SC/ST Category candidates) in aggregate in required three subjects.
- (iii) For admission to first year of BHMCT/BFAD/BFA, candidate must have clearly passed intermediate examination of U. P. Board or 10+2 level examination or its equivalent from any recognized Board / University and securing minimum 45% marks without grace (40% marks for SC/ST category candidates) in aggregate.
- (iv) For admission to first year of B. Arch., a candidate must have clearly passed intermediate examination of U. P. Board or 10 + 2 level examination or its equivalent from any recognized Board / University and securing (i) minimum 50% marks in aggregate and (ii) clearly passed without grace, each compulsory and optional subjects as given in clause 3.1(i).

A candidate possessing three years Diploma in Architecture (10+3) recognized by Central / State Govt., is also eligible for admission to first year of B. Arch. only, provided the candidate has passed the Diploma examination securing minimum 50% marks in aggregate without grace. Such candidates will have to appear in the entrance examination for first year of B. Arch. Paper 4 (clause 4.3).

- (v) **All candidates who are eligible for admission in B.Tech. Courses are also eligible for B.Tech. (Agriculture Engineering) and B.Tech. (Biotechnology).**

### **3.2 ELIGIBILITY TO APPEAR IN UPSEE-2016 FOR ADMISSION TO FIRST YEAR OF MBA/ MCA/MAM**

- (i) For admission to first year of MBA in any institution affiliated to AKTU, Lucknow, a candidate must have passed Bachelors degree course of three years minimum duration from any recognized Indian University; or its equivalent, recognized by A.I.U securing minimum 50% (45% for SC/ST) marks in aggregate.
- (ii) For admission to first year of MCA in any institution affiliated to AKTU, Lucknow, a candidate must have passed Bachelors degree course of three years minimum duration from any recognized Indian University; or its equivalent, recognized by A.I.U. securing minimum 50% (45% for SC/ST) marks in aggregate. Candidate must have passed Mathematics at 10+2 level or Graduation level.
- (iii) For admission to first year of MBA/MCA in other Universities of U.P., a candidate must have passed Bachelor degree course with the eligibility conditions given in following table subject to the confirmation received from the concerned University:

<b>Sl. No</b>	<b>Name of University/ Institutions</b>	<b>Course(s)</b>	<b>Minimum pass marks at three years Graduation level</b>	<b>Remarks/ Compulsory conditions</b>
1	C.S.J.M. Kanpur University, Kanpur	MBA MBA-Finance & Control (M3) MBA-Business Economic(M2) MBA-Tourism Management(M4)	As per AICTE norms.	
		MCA	As per AICTE norms.	Maths at 10+2 level.
2	Dr. R. M. L. Avadh University, Faizabad	MBA	Graduate with 50% marks	
		MCA	Graduate	Maths at 10+2 or Graduation level.
3	M.G. Kashi Vidyapith University, Varanasi	MBA	Graduate	
		MCA	Graduate with 45% marks	Maths at 10+2 level.



4	V.B.S. Purvanchal University, Jaunpur	MBA (M1) MBA Agri. Business (M17) MBA E-Commerce (M21) MBA Business Economics (M2) MBA Finance & Control (M3) MBA Human Research & Development (M22)	As per UPSEE norms.	
		MCA	As per UPSEE norms.	Maths at 10+2 or Graduation level
5	M.J.P. Rohilkhand University, Bareilly	MBA (General) (M1) MBA (Marketing) (M20)	Graduation 50%	
		MCA	As per UPSEE norms	Maths at 10+2 or Graduation level.
6	D.D.U. Gorakhpur University, Gorakhpur	MBA	Minimum 40% marks at Graduation level	
7	Institute of Business Studies, Ch. Charan Singh University, Meerut	MBA	Graduate	
	Sir Chhotu Ram Institute of Engineering & Technology, Ch. Charan Singh Campus, Meerut	MBA (M1) MBA-IB (M5)	Graduate	
		MCA	Graduate	Maths at 10+2 or Graduation level.
8	Dr. B.R. Ambedkar University, Agra	MBA	As per UPSEE	
		MCA	As per UPSEE	
9	Bundelkhand University, Jhansi	MBA MBA (International Business)(M5) MBA (Finance Management)(M6) MBA (Tourism Management)(M4)	50%	
		MCA	50% in B.Sc.(Maths/Stats)/BCA/ B.Sc.IT /B.Sc.(CS)/B.Sc.(IT). Maths at 10+2 level is compulsory	
10	Uttar Pradesh Vikalanga Uddhar Dr. Shakuntala Misra Vishwavidyalaya, Lucknow	MBA	Graduate	
11	Khwaja Moinuddin Chishti Urdu, Arabi-Farsi University, Lucknow.	MBA	Minimum 50% marks (45% for SC/ST) at Graduation Level	

- (iv) For Admission to first year of **MAM Course** (Dual degree), a candidate must have passed Intermediate examination of U.P. Board or 10+2 level examination or its equivalent from any recognized Board/ University and securing minimum 45% marks without grace (40% marks for SC/ST category candidates) in aggregate.

### 3.3 ELIGIBILITY TO APPEAR IN UPSEE-2016 FOR ADMISSION TO SECOND YEAR (LATERAL ENTRY) OF B. TECH. / B. PHARM./MCA

- (i) Direct Admission (Lateral Entry) in second year of B.Arch./BHMCT/BFAD/BFA/MBA courses is not permissible.
- (ii) Lateral entry in "B.Tech. for Engg. Diploma holders or B.Sc. Graduates with Mathematics as one of the subject at XII standard"/ "B.Pharm. for Diploma holders" in third semester (second year)/"MCA

for Graduates of BCA or B.Sc.-Information Technology/Computer Science in third semester (second year)", is open only in the institutions affiliated to AKTU, Lucknow.

- (iii) Candidates who have passed 'three years Engg. Diploma from an Institution located in U.P. with minimum 45% marks (40% for SC/ST) OR 'whose parents (Father or mother) are domicile of Uttar Pradesh' and he/she has passed three years Engg. Diploma with minimum 45% marks (40% for SC/ST) recognized by the Board of Technical Education, U.P., in any branch of Engineering (except Agriculture Engg., Pharmacy and Architecture), are eligible for admission to Second year in any branch of Engineering / Technology.
- (iv) Candidates who have passed 'three years Diploma in Agriculture Engg. from an Institution located in U.P. with minimum 45% marks(40% for SC/ST)' OR 'whose parents (Father or mother) are domicile of U.P.' and he/she has passed three years Diploma in Agriculture Engg. with minimum 45% marks(40% for SC/ST) recognized by the Board of Technical Education, U.P., are eligible for admission to Second year of Agriculture Engg. Branch only.
- (v) Candidates who have passed 'three years B.Sc. degree and passed XII standard with mathematics as one of the subject' from any recognized University; securing minimum 45% marks (40% for SC/ST) in aggregate, are also eligible for admission to second year in any branch of Engineering/ Technology.
- (vi) Candidates who have passed 2/3 years Diploma in Pharmacy from an Institution located in U.P. with minimum 45% marks (40% for SC/ST)' OR 'whose parents are domicile of U.P.' and he/she has passed 2/3 years Diploma in Pharmacy with minimum 45% marks (40% for SC/ST) recognized by the Board of Technical Education, U.P., are eligible for admission to second year of B.Pharm. only.
- (vii) For Admission to **2<sup>nd</sup> year of MCA course (Lateral Entry)**, in any institution affiliated to AKTU, Lucknow, a candidate must have passed Bachelors degree course of minimum three years duration in BCA, B.Sc (IT/ Computer Science) from any recognized Indian University; or its equivalent, recognized by A.I.U. securing minimum 50% (45% for SC/ST) marks in aggregate. The candidate must have passed Mathematics at 10+2 level or Graduation level.

### **3.4 ELIGIBILITY FOR ADMISSION TO NRI QUOTA IN FIRST YEAR**

NRI candidates who possess minimum requisite qualification may get direct admission on 5% seats of total intake in State Funded and Private Institutions of Uttar Pradesh in all courses except MBA/MCA/MAM. However, applicants opting B.Arch. course under this category has to appear in Aptitude Test on the day of counseling to be notified later. The University shall fill the seats of NRI quota (5%) seats in the following manner:

- (i) NRI quota seats shall be filled from NRI's, who
  - (a) have passed the qualifying examination with Physics, Chemistry and Mathematics from an Institution situated outside India, which is considered equivalent to (10+2) examination by the Association of Indian Universities.

OR

- have passed High School Certificate Education (GCE) examination with Physics, Chemistry and Higher Mathematics (A) from London / Cambridge / Sri Lanka.
  - (b) have appeared in SAT II examination with Mathematics level II C, Physics and Chemistry.

Their relative merit will be decided on their SAT-II score.

- (ii) The vacant seats in NRI quota, if any, shall be filled up by such son / daughter / real brother /real sister of NRI's, who have passed intermediate or (10+2) or equivalent examination; with physics, chemistry and mathematics without grace in each of physics, chemistry and mathematics and

securing minimum 50% marks (45% for SC/ST) in physics, chemistry and mathematics taken together, from an institution situated in India.

- (iii) The children of real brother / sisters and son / daughter of NRI may also be considered if the seats remain vacant after admitting the eligible NRI, their son/daughter and real brother/sister. The minimum requisite qualification shall be same as clause 3.4(ii).
- (iv) The relative merit of candidates will be decided based on the total marks obtained by them in physics, chemistry and mathematics. Such candidates need not appear in the UPSEE-2016.
- (v) **All such candidates MUST submit an NRI certificate obtained from Indian Diplomatic Mission / Chancery / High Commission under their seal at the time of counselling.**
- (vi) **The candidate MUST also submit sufficient documents clarifying without ambiguity their true relationship with the sponsoring NRI to the satisfaction of the University.**
- (vii) The candidates will be informed separately about the date of counselling, and number of seats under this quota, and they are required to be present in person on the day of counselling with original documents / certificates, failing which they will lose their claim.
- (viii) The latest orders issued by Govt. of U.P. upto the date of NRI counselling shall be applicable for admission in NRI quota.
- (ix) The detailed information will be published through Newspapers and websites: <http://www.aktu.ac.in> or <http://www.upsee.nic.in> in the month of May 2016.

### **3.5 ELIGIBILITY FOR ADMISSION TO FOREIGN NATIONALS (FN) / PERSONS OF INDIAN ORIGIN (PIO) / CHILDREN OF INDIAN WORKERS IN GULF COUNTRIES (CIWGC) IN FIRST YEAR**

FN/PIO/CIWGC seats shall be filled from Foreign Nationals / PIO's/CIWGC who:

- (i) have passed the qualifying examination with Physics, Chemistry and Mathematics, which is considered equivalent to (10+2) examination by the Association of Indian Universities.
- (ii) Posses valid SAT-II score with Mathematics level II C, Physics and Chemistry.
- (iii) should submit a copy of passport or equivalent evidence support of their Nationality. Their relative merit shall be decided based on their SAT-II score.

### **3.6 ELIGIBILITY FOR DIRECT ADMISSION TO FIRST YEAR IN PRIVATE INSTITUTIONS AT INSTITUTE LEVEL UNDER MANAGEMENT QUOTA (FOR NRI CANDIDATES) / VACANT SEATS AFTER COUNSELLING OF UPSEE-2016**

- (i) The 15% seats<sup>3</sup> in private institutions shall be filled by the NRI candidates at institute level under management quota as per eligibility criteria in clause 3.4. The vacant seats in NRI/Management quota or vacant seats after counselling of UPSEE-2016 shall be filled strictly in following preference order, within fifteen days of the last date of counselling:
  - (1) Firstly, (a) by the qualified candidates of JEE (Main)-2016 fulfilling the eligibility as per clause 3.1 for B.Tech./B.Arch, (b) by the qualified candidates of valid CMAT/CAT/MAT score fulfilling the eligibility as per clause 3.1 for MBA. Their relative merit will be decided on their rank in respective entrance examinations.
  - (2) Secondly, by the qualified candidates of UPSEE-2016, who fulfill the eligibility as per clause 3.1. Their relative merit will be decided on their rank in UPSEE-2016.
  - (3) Thirdly, by the merit of candidates in qualifying examination with the following conditions:

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<sup>3</sup> It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling.

- (a) For admission to first year of B. Tech. / B. Pharm., candidate must have passed intermediate examination of U. P. Board or 10+2 level examination or its equivalent from any recognized Board / University; securing minimum 50% (45% for SC/ST) marks in required subject combination (two compulsory & one optional) taken together. The candidate is essentially required to pass without any grace marks (as per respective Board/University) in each subject of the subject group indicated in para 3.1 (i). The relative merit shall be decided based on total marks in subject combination (clause 3.1(i)) of qualifying examination.
- (b) For admission to first year of BHMCT/BFAD/BFA/MAM, candidate must have passed intermediate examination of U. P. Board or 10+2 level examination or its equivalent from any recognized Board / University; securing minimum 50% (45% for SC/ST) marks in aggregate without any grace marks. The relative merit shall be decided based on aggregate of qualifying examination.
- (c) For admission to first year of MBA in any institution affiliated to AKTU, Lucknow , a candidate must have passed minimum three years Bachelor degree course from any recognized University; securing minimum 50% (45% for SC/ST) marks in aggregate without any grace marks. The relative merit shall be decided based on aggregate of qualifying examination.
- (d) For admission to first year of MCA in any institution affiliated to AKTU, Lucknow, a candidate must have passed minimum three years Bachelor degree course from any recognized University; securing minimum 50% (45% for SC/ST) marks in aggregate without any grace marks. Candidate must have passed mathematics at 10+2 level. The relative merit shall be decided based on aggregate of qualifying examination.
- (ii) Institute shall ensure filling of these vacant seats inviting the applications through advertisement in atleast two leading newspapers of the State level and Institute website, giving atleast one-week time to submit the applications. Admissions shall be strictly based on clause 3.6(i) mentioned above. However, applicants opting B.Arch. course under this category has to appear in Aptitude Test on the day of counseling to be notified later.

### **3.7 ELIGIBILITY FOR DIRECT ADMISSION (LATERAL ENTRY) TO SECOND YEAR IN PRIVATE INSTITUTIONS UNDER VACANT SEATS AFTER COUNSELLING OF UPSEE-2016<sup>4</sup>**

The vacant seats in B. Tech./B.Pharm./MCA course after UPSEE-2016 counselling for lateral entry (second year) shall be filled within 15 days of the last date of counseling at institute level, firstly by the qualified candidates of UPSEE-2016, who fulfill the eligibility as per clause 3.3. Their relative merit will be decided on their rank in UPSEE-2016.

There after, the vacant seats, if any, will be filled on merit by such candidates who have passed the qualifying examination securing minimum 50% (45% for SC/ST) marks in aggregate without any grace marks.

Institute shall ensure the filling of these seats by inviting the applications through advertisement in atleast two leading newspapers of state and institute website, and give atleast one week time to submit the applications.

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<sup>4</sup> It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling.

## 4. EXAMINATION DETAILS

UPSEE-2016 will be conducted for TWELVE papers with objective multiple type questions except Drawing Aptitude test (Part B of paper 4). The candidates are required to opt papers and subjects for appearing in the entrance examination as mentioned in clause 4.3, subject to their eligibility as per clause 3. Paper 1, Paper 2, Paper 3 and Paper 4 shall be **OMR based Test only**. Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10, Paper 11 and Paper 12 will be **Computer Based Test only**.

### 4.1 SCORING AND NEGATIVE MARKING

- (i) All objective type questions are required to be answered on a specially designed OMR answer sheet against the respective question number. Candidate is supposed to select only one choice for correct answer in each question.
- (ii) Every objective multiple type question would carry four marks for each correct answer. More than one answers indicated against the question will be deemed as incorrect answer and no marks is awarded for the incorrect answer.
- (iii) There will be **no negative marking**. However, a record of incorrect answers given by a candidate will be kept separately.
- (iv) Answers in OMR based examination (Paper 1, Paper 2, paper 3 and Paper 4) are to be marked using ballpoint pen (Black / Blue) only. For the purpose of evaluation in these papers, the details filled in by the candidate in the OMR answer sheet will be treated as final.

### 4.2 QUESTION PAPERS AND SUBJECTS IN THE ENTRANCE EXAMINATION

Paper	Subjects	Number of Questions	Marks
Paper 1	Physics, Chemistry and Mathematics	50 objective type questions each of Physics, Chemistry and Mathematics with a total of 150 questions.	600
Paper 2	Physics, Chemistry and Biology	50 objective type questions each of Physics, Chemistry and Biology with a total of 150 questions.	600
Paper 3	AG-I, AG-II and AG-III	50 objective type questions each of AG-I, AG-II and AG-III with a total of 150 questions.	600
Paper 4	Aptitude Test for Architecture Part-A: Mathematics and Aesthetic Sensitivity Part-B: Drawing Aptitude	50 objective type questions each of Mathematics and Aesthetic Sensitivity with a total of 100 questions and Two questions to test drawing aptitude.	500
Paper 5	Aptitude Test for General Awareness (BHMCT/BFAD/BFA)	75 objective type questions	300
Paper 6	Aptitude Test for Diploma Holders in Engineering (Lateral Entry)	75 objective type questions	300

Paper 7	Aptitude Test for Diploma Holders in Pharmacy (Lateral Entry)	75 objective type questions	300
Paper 8	Aptitude Test for B.Sc. Graduates in Engineering (Lateral Entry)	75 objective type questions	300
Paper 9	Aptitude Test for MBA	100 objective type questions	400
Paper 10	Aptitude Test for MCA	100 objective type questions	400
Paper 11	Aptitude Test for MAM	100 objective type question	400
Paper 12	Aptitude Test for 2 <sup>nd</sup> Year MCA (Lateral Entry)	100 objective type question	400

#### 4.3 QUESTION PAPERS REQUIRED FOR DIFFERENT COURSES

COURSE	PAPERS
B. Tech. / B. Tech. (Agriculture Engineering)	Paper 1
B. Tech. (Bio Technology)	Paper 1 or Paper 2
B. Tech. (Agriculture Engineering) only <sup>5</sup>	Paper 3
B. Pharm.	Paper 1 or Paper 2
B. Arch. <sup>6</sup>	Paper 4
BHMCT / BFAD/BFA	Paper 5

<b>Lateral Entry:</b> B.Tech. 2 <sup>nd</sup> Year (for Engg. Diploma Holders) B.Pharm 2 <sup>nd</sup> Year (for Pharmacy Diploma Holders) B.Tech. 2 <sup>nd</sup> Year (for B. Sc. Graduates)	Paper 6 Paper 7 Paper 8
MBA	Paper 9
MCA	Paper 10
MAM (Dual Degree)	Paper 11
<b>Lateral Entry: 2<sup>nd</sup> Year MCA</b>	Paper 12

<sup>5</sup> See Clause 3.1 (v) also.

<sup>6</sup> Diploma holders of Architecture are also required to appear in paper 4. See clause 3.1(iv) also.

## 5 SCHEDULE OF EXAMINATION

Date of Examination	Paper Code	Subjects	Timing (Total Time Period)
17 <sup>th</sup> April, 2016 (Sunday)	Paper 1/	Physics, Chemistry and Mathematics /	10:00 AM to 1:00 PM (3 Hours)
	Paper 2/	Physics, Chemistry and Biology /	
	Paper 3	AG-I, AG-II and AG-III	
	Paper 4	Aptitude Test for Architecture	2.30 PM to 5:00 PM ( 2 Hours 30 Minutes)
23 <sup>rd</sup> April, 2016 (Saturday)	Paper 5	Aptitude test for General Awareness (BHMCT/BFAD/BFA)	10:00 AM to 11:30 AM (1 Hour 30 Minutes)
	Paper 6/	Aptitude Test for Diploma Holders in Engg. /	2:30 PM to 4:00 PM (1 Hour 30 Minutes)
	Paper 7/	Aptitude Test for Diploma Holders in Pharmacy /	
	Paper 8	Aptitude Test for B.Sc. Graduates	
24 <sup>th</sup> April, 2016 (Sunday)	Paper 09/	Aptitude Test for MBA/	9:00 AM – 11:00 AM (2 Hours )
	Paper 11	Aptitude Test for MAM	
	Paper 10	Aptitude Test for MCA	1:00 PM – 3:00 PM (2 Hours )
	Paper 12	Aptitude Test for 2 <sup>nd</sup> Year MCA (Lateral Entry)	4:00 PM –6:00 PM (2 Hours )

## 6. SYLLABUS

The Syllabus for each question paper for the UPSEE-2016 is given at Appendix–A.

## 7. EVALUATION AND DECLARATION OF RESULT

- 7.1 The results of UPSEE-2016 alongwith answer keys will be declared on or before 30<sup>th</sup> May, 2016.
- 7.2 Based on performance of the candidates in UPSEE-2016, separate merit lists will be prepared for each course. Merit position, score-card with total marks and marks obtained in each subject shall be available on website **after the declaration of the result.**

7.3 In case two or more candidates secure equal marks, inter-se-merit of such candidates shall be determined as follows:

(a) **Firstly**, by the number of incorrect answers given. A candidate giving lesser number of incorrect answers will be placed at higher merit.

(b) **Secondly**,

B. Tech. :By the marks obtained in Mathematics, Physics, Chemistry sections of Paper 1 respectively and then by age.\*

B. Pharm. :By marks obtained in Biology,Chemistry,Physics sections of Paper 2 respectively and then by age.\*

B. Arch. :By marks obtained in Drawing Aptitude, Mathematics & Aesthetics sensitivity section of Paper 4 respectively and then by age.\*

B.Tech.(Ag.Engg.) :By marks obtained in AG-I,AG-II,AG-III section of Paper 3 respectively and then by age.\*

B.Tech. (Bio Tech.): Same as applicable in B.Tech./ B.Pharm

BHMCT/BFAD/BFA/MAM/MBA/MCA/Lateral entry: \*By age only

\* Candidate with higher age will be placed at higher merit.

7.4 The cut-off percentage of marks in UPSEE-2016 for the merit of successful candidates is 25% (20% for SC/ST) as per UP State Govt order.

7.5 Successful candidates shall be called for counselling according to their merit in UPSEE-2016 by giving intimation through Newspapers and website. However, the allotment of seat shall depend on the availability of the seats on the day of counseling. The successful candidates are advised to keep a close watch on websites <http://www.aktu.ac.in> or <http://www.upsee.nic.in> and Newspapers for counselling dates. The counselling schedule can be downloaded from the website.

## 8. CATEGORY DEFINITIONS

8.1 Candidates, who have passed the qualifying examination from an institution located in the State of Uttar Pradesh and who do not claim for any reserved category are eligible for admission to all the courses at all the institutions against available General (OPEN) seats.

[Code: **UPGE**]

*No category certificate required from such candidates.*

8.2 Candidates, who have passed the qualifying examination from an institution located in State of U.P.; and are domicile of U.P.; and belong to Schedule Caste (SC) of U.P. / Schedule Tribe (ST) of U.P. / Other Backward Classes of U.P. are eligible for admission against available reserved seats of their category.

[Respective Codes: **UPSC / UPST / UPBC**]

*Certificate No. 1 or 2, as applicable, is required.*

8.3 Candidates, who have passed the qualifying examination from an institution located outside U.P.; and whose parents are domicile of U.P.; and who have not claimed for any reserved category, are also eligible for admission to courses offered at all institutions under General (OPEN) category. Such candidate has to produce the domicile certificate of his/her parents (**Father OR Mother only**) at the time of counselling.

[Code: **UPGD**]

*Certificate Mo. 3 required from such candidates*



- 8.4 Candidates, who have passed the qualifying examination from an institution located outside U.P.; and whose parents are domicile of U.P.; and who belong to Schedule Caste of U.P. / Schedule Tribe of U.P. / Other Backward classes of U.P. are also eligible for admission against reserved seats of their category.

[Respective Codes: **GDSC/GDST/GDBC**]

*Such candidate has to produce the domicile certificate of his/her parents (**Father OR Mother only**) (Certificate No. 3) and Category Certificate (Certificate No. 1 or 2 as applicable) at the time of counselling.*

- 8.5 The domicile requirement to son/daughter of following is **relaxed** and admission is permitted to such:

- (i) defence personnel settled in U.P. on the date of Entrance Examination after retirement / being disabled in action or Defence personnel killed in action and the dependents settled in U.P. on the date of Entrance Examination. (*Certificate no. 5 is required.*)
- (ii) defence personnel who are not domicile of U.P., but are posted in U.P. on the date of Entrance Examination. (*Certificate no. 5 is required.*)
- (iii) employee of **All India Services** belonging to U. P. cadre. (*Certificate no. 11 is required*)

[Code: **GDDA**]

***GDDA candidates will be considered as UPGD category for all other benefits.***

- 8.6 Candidates, who have passed the qualifying examination from an institution located outside U.P. and whose parents are NOT domicile of U.P.

[Code: **OSGE**]

*No category certificate required from such candidates.*

***Such candidates, alongwith candidates of other categories, shall be considered only against 10 percent of the sanctioned intake of first year in Technology/ Architecture courses in Private Institutions affiliated to AKTU.***

- 8.7 Proformas of various certificates are available in Appendix – D.

## **9. RESERVATION OF SEATS**

### **9.1 Vertical Reservation (Category):**

<b>Category</b>	<b>Percentage of Reservation</b>
(a) Scheduled Caste of U.P.	21%
(b) Scheduled Tribe of U.P.	02%
(c) Other Backward Classes of U.P.	27%

**9.2 Horizontal Reservation (Sub-category available in each category):**

<b>Sub-Category</b>	<b>Code</b>	<b>Maximum Percentage of Total Seats</b>
(a) Dependents of Freedom Fighters from U.P.	UPFF	02%
(b) Sons / Daughters of defence personnel of U.P. either retired (superannuated) or killed / disabled in action or defence personnel posted in U.P./defence personnel domicile of U.P. & posted outside U.P.	UPAF	05%
(c) Handicapped / Disabled of U.P.	UPHC	03%
(d) Girls of U.P.	UPGL	20%

**9.3** The candidates can be given only one type of horizontal reservation out of UPFF/UPAF/UPHC. **However, the girl candidates can also claim for any one of UPFF/UPAF/UPHC alongwith UPGL.**

**9.4** Subsequent request for the change of category / sub-category filled in Application Form shall not be entertained under any circumstances.

**9.5** Category / sub-category must be supported by the relevant certificates as per proforma given in the Appendix-D to be produced at the time of counselling, failing which the candidates shall be treated in General Category.

**9.6** The advantage of horizontal reservation in Armed force sub-category is available to sons/daughters of 'defence personnel of U.P. either retired (Superannuated) or killed / disabled in action and the dependents settled in U.P.' or 'the defence personnel posted in U.P.' on the date of Entrance Examination.

**9.7** Certificate no. 4, 5 and 6 are required at the time of counseling, for claiming reservations in subcategories mentioned at clause 9.2 (a), (b) and (c) respectively.

**9.8 The seats available under Fee Waiver scheme will be notified in respective category at the time of counselling.**

**9.9 Please note that benefits of UPGL subcategory will automatically be given to all the Female candidates.**

**10. WEIGHTAGE TO CANDIDATES FROM RURAL AREAS OF UTTAR PRADESH**

**10.1** A weightage of 3% of the total marks obtained at UPSEE-2016 will be given to such UPGE candidates for B.Tech./B.Pharm/B.Arch./BHMCT/BFAD/BFA courses, who have passed the qualifying examination from an institution situated in rural area of Uttar Pradesh.

**10.2** For this purpose, the institutions should be situated in the jurisdiction of Gram Panchayat but the area should not be industrially developed. Such candidates must produce Certificate Number 7 at the time of counselling.

**10.3 Rural weightage is not applicable for a candidate opting any other reservation and for a candidate opting direct admission to second year.**

**10.4 Rural weightage is not applicable for candidates under UPGD category defined in clause 8.3.**

## 11. MEDICAL STANDARDS

11.1 Candidates will have to submit a certificate of Medical fitness/ handicap on Certificate number 9 at the time of counselling.

11.2 The medical standards prescribed are given below:

### Medical Standards Applicable:

Height	Candidate should be Physically fit to pursue his/her studies in opted course.
Weight	
Chest measurement	
Heart and lungs	No abnormality
Hernia, Hydrocele, Piles etc.	Presence of any of these is to be corrected before joining.
Vision	Normal. If defective, it must be got corrected to 6/9 in the better eye and 6/12 in the worse one. Eyes should be free from congenital or any other disease.
Hearing	Normal. If defective, it must be got corrected before joining.
Physically Handicapped / Disabled	The candidate having any one type of physical handicap/ disability given below.

### Physically Handicapped / Disabled:

Type – I	Minimum 40% permanent Visual impairment
Type – II	Minimum 40% permanent Locomotors disability
Type – III	Minimum 40% permanent speech and Hearing impairment

## 12. CITY OF EXAMINATION

The UPSEE-2016 will be held at various cities as given in the following tables. The candidates are advised to give three choices of examination cities.

- (i) **Paper 1, Paper 2, Paper 3 and Paper 4** are **OMR based Tests** and shall be held in various cities given in the **Examination City Table-I**
- (ii) **Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10, Paper 11 and Paper 12** are **Computer based Tests** and shall be held in various cities given in the **Examination City Table-II**.

**Examination City Table-I  
(OMR Based Test)  
[For Paper 1, Paper 2, Paper 3 and Paper 4]**

<p><b>Cities in State of U.P.</b></p> <ol style="list-style-type: none"> <li>1. Agra</li> <li>2. Firozabad</li> <li>3. Mathura</li> <li>4. Aligarh</li> <li>5. Allahabad</li> <li>6. Azamgarh</li> <li>7. Ballia</li> <li>8. Mau</li> <li>9. Bareilly</li> <li>10. Shahjahanpur</li> <li>11. Basti</li> <li>12. Banda</li> <li>13. Gonda</li> <li>14. Ambedkar Nagar</li> <li>15. Barabanki</li> <li>16. Faizabad</li> </ol>	<ol style="list-style-type: none"> <li>17. Sultanpur</li> <li>18. Deoria</li> <li>19. Gorakhpur</li> <li>20. Kushinagar</li> <li>21. Jalaun (Orai)</li> <li>22. Jhansi</li> <li>23. Etawah</li> <li>24. Kanpur Nagar</li> <li>25. Lakhimpur Kheri</li> <li>26. Lucknow</li> <li>27. Raebareli</li> <li>28. Sitapur</li> <li>29. Bulandshahr</li> <li>30. Gautam Buddha Nagar (Noida/Greater Noida)</li> <li>31. Ghaziabad</li> <li>32. Meerut</li> </ol>	<ol style="list-style-type: none"> <li>33. Mirzapur</li> <li>34. Bijnor</li> <li>35. Moradabad</li> <li>36. Muzaffarnagar</li> <li>37. Saharanpur</li> <li>38. Ghazipur</li> <li>39. Jaunpur</li> <li>40. Varanasi</li> </ol> <p><b>Cities in Other States</b></p> <ol style="list-style-type: none"> <li>41. Bhopal</li> <li>42. Dehradun</li> <li>43. Delhi</li> <li>44. Patna</li> <li>45. Ranchi</li> <li>46. Jaipur</li> <li>47. Kolkata</li> <li>48. Mumbai</li> </ol>
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**Examination City Table-II  
(Computer Based Test)  
[For Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10, Paper 11 and Paper 12]**

<ol style="list-style-type: none"> <li>1. Agra</li> <li>2. Aligarh</li> <li>3. Allahabad</li> <li>4. Bareilly</li> <li>5. Ghaziabad</li> </ol>	<ol style="list-style-type: none"> <li>6. Gorakhpur</li> <li>7. Gautam Buddha Nagar (Noida / Greater Noida)</li> <li>8. Jhansi</li> <li>9. Kanpur</li> <li>10. Lucknow</li> </ol>	<ol style="list-style-type: none"> <li>11. Mathura</li> <li>12. Meerut</li> <li>13. Moradabad</li> <li>14. Muzaffarnagar</li> <li>15. Varanasi</li> </ol>
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**(iii) Candidates are advised to be very careful while giving their options for city of examination centre.** Candidates are advised to choose cities of examination on the basis of the paper he/she has opted from the respective tables i.e **Examination City Table-I** and/or **Examination City Table-II**.

**(iv)** In case, candidate has opted papers in such a manner that some of these papers are the OMR based Tests (**Paper 1, Paper 2, Paper 3 and Paper 4**) and some of these papers are Computer based Tests (**Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10, Paper 11 and Paper 12**), the choices for city of examination must be chosen from the **Examination City Table-II only**.

For example,

(a) If a candidate opts for **Paper 1 only**, he/she should refer to the **Examination City Table-I**.

(b) If a candidate opts for **Paper 5 only**, he/she should refer to the **Examination City Table-II**.

- (c) **If a candidate opts for two papers Paper 1 and Paper 5, he/ she should refer to the Examination City Table-II.**
- (v) If any candidate chooses cities of examination where the examination for the paper opted is not being conducted, he/she shall be allotted an examination city from the respective list and same shall be binding upon the candidate.
- (vi) Certain examination cities may be cancelled if sufficient number of candidates does not opt for that city. Request for change of city of examination shall not be entertained under any circumstances.
- (vii) List of Cities of Examination for OMR based Test as well as Computer based Test is given in Appendix-E also.

### **13. ADMIT CARD**

- 13.1 Admit card will be available online on the website <http://www.upsee.nic.in> to every candidate. **Downloaded admit card shall be treated as valid admit card.** The candidates are advised to check the details of admit cards with regards to their category, sub-category, gender, rural weightage, Name, Father's Name etc. as mentioned on the Admit Card.
- 13.2 No candidate will be allowed to appear in the examination without admit card.
- 13.3 If any candidate is unable to download his/her admit card, he/she should contact the helpline as indicated on the website <http://www.upsee.nic.in> or send an email to the mail address [helpdesk.upsee2016@gmail.com](mailto:helpdesk.upsee2016@gmail.com) latest by 14<sup>th</sup> April, 2016.
- 13.4 A plea that a candidate failed to receive the information for appearing at the Examination will not be accepted as a ground for the refund of fee or any other redressal. UPSEE-2016 may withdraw the permission to appear in UPSEE-2016 granted by mistake to a candidate who is not eligible to appear at the UPSEE-2016 even if an Admit Card has been issued and produced by the candidate before the concerned Centre Superintendent at the Examination Centre.
- 13.5 In case of any reported correction, the final corrected admit card will have to be downloaded from website <http://www.upsee.nic.in> or <http://www.aktu.ac.in> before the examination date.
- 13.6 **Since successful candidates are required to produce the Admit Card at the time of counselling and admission, it should be carefully preserved until the admission process is completed.**

### **14. MEDIUM AND MODE OF EXAMINATION & EVALUATION**

All question papers (except part B of paper-4) will carry objective multiple-choice questions. Answers of Paper 1, paper 2, Paper 3 and paper 4 will be evaluated by OMR methodology. All question papers for undergraduate admissions (except paper-4) will be in Hindi and English both, but in case of any ambiguity, the English version shall be considered final. The candidates appearing in the UPSEE-2016 have the option to answer part B of Paper-4 either in English or in Hindi. In all cases, the Standard English numerals must be used.

### **15. COUNSELLING**

- 15.1 Successful candidates will be required to participate in the counseling process. The information about Counseling procedure, Counselling Schedule and all relevant information regarding counselling etc., will be notified on the website: <http://www.aktu.ac.in> or <http://www.upsee.nic.in>.

## 16. EXAMINATION FEE

The examination fee for the On-Line Application is as follows:

<b>For Male / Transgender Candidates of General/ OBC Category</b>	<b>For SC/ST Category and Female Candidates/ Physically Handicapped Candidates of All the category</b>
<b>Rs. 1000/-</b>	<b>Rs. 500/-</b>

The examination fee has to be submitted On-Line through Credit/debit Card/ Net Banking while submitting the On-Line Application. Please note that the bank may additionally charge service charges plus applicable taxes while making the payment through Credit/Debit card/ Net banking.

## 17. TUITION FEES

- 17.1** The tuition fees in Govt. / Govt. aided colleges / institutes shall be as per latest orders of Government of U.P applicable in the respective colleges/institutes. However, few courses are under self finance scheme and the details of the fee for such courses can be obtained by respective colleges/institutions. However, information about amount of the hostel and other fee can be obtained from the institute.
- 17.2** The fees in Private Institutions / Govt. aided Institutions running self finance courses will be as per the latest notification/orders issued by Govt. of Uttar Pradesh/ Fee Fixation Committee and same is available on website <http://www.afrcup.in>.

## 18. LAST DATE OF SUBMISSION OF ON-LINE APPLICATION FORM

Application Form for UPSEE-2016 can be submitted On-Line only through website <http://www.upsee.nic.in> from **24<sup>th</sup> February 2016, 11:00 AM**. The Last Date of filling and submitting the On-Line Application Form is **27<sup>th</sup> March 2016, 05:00 PM**.

## **HOW TO FILL ON-LINE APPLICATION FORM ( UG & PG COURSES)**

The On-Line application to UPSEE-2016 can be filled and submitted as per clause 18, clause 19, clause 20 and clause 21 of the Information Brochure as given below.

### **19 . AVAILABILITY OF INFORMATION BROCHURE**

The Information Brochure will be available ON LINE on the websites <http://www.upsee.nic.in> only. The same can be downloaded and/or printed for reference by the candidates. The application form can be filled in On-Line through Internet from any place of convenience.

### **20. HOW TO FILL AND SUBMIT THE ON-LINE APPLICATION FORM**

#### **20.1 APPLICATION PROCEDURE**

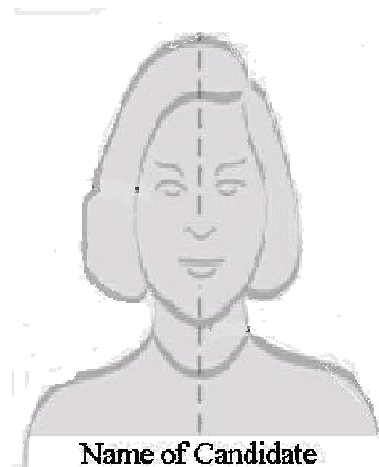
The online application can be made from 11:00 AM, 24<sup>th</sup> Feb 2016 till 05:00 PM of 27<sup>th</sup> March 2016 through the website <http://www.upsee.nic.in>. The On-Line Application Form is self explanatory. For assistance, in case of any difficulty in filling up ON-LINE application form, candidate may contact at Toll Free Number 1800-180-0161 or send an email at [helpdesk.upsee2016@gmail.com](mailto:helpdesk.upsee2016@gmail.com) with subject line "Seeking Help".

#### **20.2 The On-Line application form submission consists of following three simple steps.**

- (i)** Registration (Filling up of Personal and other Details)
- (ii)** Uploading of Scanned Images of Photograph, Signature and Thumb Impression
- (iii)** Payment of Examination Fee and Printing of the "Confirmation Page"

**20.3 Before, a candidate starts filling the On-Line application Form, he/she must be ready with the following:**

- (i) A personal mobile phone number and/or a personal E-Mail id.
- (ii) **Photograph:** A clear scanned image of his/her recent color passport size photograph **(3.5cm X 4.5cm)** in **JPEG** Format with a maximum size of **100 KB**. The photograph must be front facing to the camera in a manner that full face shows. The background should be either white or off-white and uncluttered. The photograph should be colour with name of the candidate printed on it as shown in the sketch below. It should be without cap or goggles. Spectacles are allowed. Candidates with unclear photograph are liable to be rejected. Candidates may keep 6-8 identical photographs in reserve for use at the time of entrance examination.



- (iii) A clear scanned image of his/her signature **(3.5cm X 1.5cm)** in **JPEG** Format with a maximum size of **30 KB**.
- (iv) A clear scanned image of his/her left thumb impression **(3.5cm X 1.5cm)** in **JPEG** Format with a maximum size of **30 KB**

**20.4** Once ready with this, he/she may proceed to following steps. Visit the website <http://www.upsee.nic.in> (Please use the browser Internet Explorer 7 or above)



and choose the appropriate link as follows for filling up the application form.

- (i) Follow the link "**UP State Entrance Examination for UG (UPSEE-2016)**" for filling the application form for admission to Under Graduate programmes: B.Tech./ B.Pharm/BHMCT/BFAD/BFA/ Direct admission to 2<sup>nd</sup> year of B.Tech./ B.Pharm and
- (ii) Follow the link "**UP State Entrance Examination for PG (UPSEE-2016)**" for filling the application form for admission to PG programmes : MBA/MCA/MAM(Dual Degree) and Direct admission to 2<sup>nd</sup> year of MCA.

You may now start filling the application by clicking the link "***Apply***" at the bottom of the page. A new screen containing the Instructions and Procedure for online submission of Application Form appears. Read this page carefully and thereafter follow the link "**Click here to proceed**" at the bottom of the page which takes you to the ON-Line Application Form. Now start filling the Application Form.

### **Step1: Registration and Filling up of Personal, Educational and other Details**

- (1) The On-Line Application Form is self explanatory. You are required to fill up all the personal details such as Name, Father's Name, Mother's Name, Domicile of your parent, state from where you have passed or appearing in the qualifying examination, Communication details such as address, mobile phone number, email etc., Course Apply details such as qualifying examination detail, subjects in the qualifying examination etc. You are also required to choose paper as per eligibility, choice of city for examination centre etc during the filling of the online application form.
- (2) After filling these details, you are required to choose "**Password**" and security question. You are required to remember this "**Password**" till the examination is

over. **Please note that this Password alongwith Application Number generated by the system will be required in future in order to login into the system again.** You are advised not to share this password with anyone.

- (3) For making changes in the Application Form, you may click the **"EDIT"** Button at the bottom as many times as you want.
- (4) **After completion of the Application Form, you may submit the application form by clicking "SUBMIT" Button. Once you click "SUBMIT" Button, a Review page showing all the crucial information filled by you appears on the screen. Now, check all the information on the Review Page. If you want to change/ modify some of the information provided in the Application Form, click the "EDIT APPLICATION FORM DATA" Button and modify the entries in Application Form as desired and "SUBMIT". You can repeat this process as many times as you want.**
- (5) **Once you are satisfied with all the entries and want to submit the Application Form, click the "FINAL SUBMIT" Button. Please note that once you submit the application form by clicking the "FINAL SUBMIT" Button, the On-Line Application Form is finally submitted and you will not be able to modify/change/edit the entries of your Application Form. Therefore, you are advised to click "FINAL SUBMIT" Button only when you are completely satisfied with entries on the application form, part of which has been shown on the "Review Page".**
- (6) Before **"FINAL SUBMIT" Button**, you will notice a Declaration at the bottom. Please read the declaration and accept the declaration by ticking the check box named "I agree" . Unless you accept the declaration by ticking the given check box, you will not be able to submit the form.
- (7) After Final Submission of the Application Form, Step 1 is completed and an

**Application Number** is generated by the system. **You are required to note this APPLICATION NUMBER for all future correspondences and in order to be able to Login again.**

- (8) Now you may proceed with Step 2. If you wish to complete the step 2 at later time, please Logout. Therafter, Login again with your APPLICATION NUMBER and PASSWORD at a convenient time and complete the Step 2.**

## **Step 2: Uploading of Scanned Images of Photograph, Signature and Left Hand Thumb Impression**

- (9)** Once Step 1 is complete, then you may proceed now with Step 2 for uploading of the scanned images.
- (i)** Upload a clear scanned image of his/her recent passport size color photograph (3.5cm X 4.5cm) in JPEG Format with a maximum size of 100 KB. The photograph must be front facing to the camera in a manner that full face shows. The background should be either white or off-white and uncluttered.
  - (ii)** Upload a clear scanned image of his/her signature (3.5cm X 1.5cm) in JPEG Format with a maximum size of 30 KB.
  - (iii)** Upload a clear scanned image of his/her left thumb impression (3.5cm X 1.5cm) in JPEG Format with a maximum size of 30 KB
- (10) Please check/review that images that have been uploaded are clear and correct before pressing the "SAVE" Button. Once "SAVE" Button is pressed, you will not be able to change the images. Therefore, before pressing the "SAVE" Button, make it doubly sure that uploaded images are correct and clear. If images that have been uploaded are not proper or appears blurred, then you must upload a proper and clear image(s) again. Please note that an Application Form with blurred photograph, thumb impresseion or signature is liable to be rejected.**

(11) Once you are satisfied with uploaded images, then you may press the "SAVE" Button. Once "SAVE" Button is pressed, images are finally uploaded and now you will not be able to change the image(s).

(12) You may now proceed with Step 3 for making payment of examination fee. **If you wish to complete the Step 3 at a later time, please logout. Thereafter, Login again with your APPLICATION NUMBER and PASSWORD at a convenient time and complete the step 3.**

### **Step 3: Payment of Examination Fee through Credit Card / Debit Card/ Netbanking and Downloading of "Confirmation Page"**

After completion of Step 1 and Step 2, applicant may proceed with Step 3 for payment of Examination Fee. The examination fee can be paid On-Line ONLY through **Credit Card / Debit Card / Net Banking.**

(13) For making payment through Credit Card / Debit Card / Netbanking, choose appropriate "**Mode of Payment**" and click the link "**Proceed for Payment**" to make the payment of examination fee. All VISA/Master cards are accepted. You should be ready with your Credit Card/ Debit Card/Net Banking details. Please note that, in addition to the examination fee, bank may charge extra amount as service charge and/or taxes as applicable.

(14) After making payment, a payment **Transaction Number** is generated. **You are required to note this Transaction Number for future correspondences.**

(15) **If the payment is successful, a link appears on the screen/page named "Download Confirmation Page". You must download this "Confirmation**

**Page” by clicking this link and save the “Confirmation Page” for record. You are also advised to take two copies of print-outs of this “Confirmation page” and keep them preserved for record and future communication. Now your application form is complete. You may log out. Please note that this “Confirmation Page” is not required to be sent to the University / UPSEE-2016 office. Your “Application Number” is also printed on this “Confirmation Page”.**

**(16)** Please note that you can view your Application Form later also. For this, you are required to Login again at the website <http://www.upsee.nic.in> using **your Application Number and Password**. Although, you will not be able to edit/modify your application Form.

**(17) Failed Transaction:** In case, your transaction is failed for some reason, whatsoever, then you will not be able to download the “Confirmation Page”. If you are unable to download the “Confirmation page” and your account is debited, it means that transaction could not be updated at NIC server of UPSEE-2016. In case, you do not succeed to download the “Confirmation page”, it indicates that your transaction has failed and you are required to make the Payment of Examination Fee again and download the confirmation page as explained in Point No (13) to Point No (16) above.

**(18)** However, the amount of Examination Fee against the failed transactions, which could not be updated on NIC Server of UPSEE-2016, shall be automatically refunded by the Bank after Reconciliation and shall be credited to the account from which the payment was made using your debit card/ credit card / Net Banking. In case, amount debited against the failed transaction is not refunded to your account within FIVE DAYS, you may send an email as follows.

**To** : [helpdesk.upsee2016@gmail.com](mailto:helpdesk.upsee2016@gmail.com)

**Subject:** Failed Transaction

Please do not forget to mention the following in your mail.

- A) Your Application Number,**
- B) Transaction Number, and**
- C) Date of Birth**

**(19)** Please do not send the hard copy / soft copy / print-out of the Confirmation page or any other document to the University at this stage.

**(20)** In case of any difficulty in filling up the On-Line Application Form, you may contact UPSEE -2016 **Helpdesk** at **Toll Free Number: 1800-180-0161** between 10:00 AM to 05:00 PM or send an email to [helpdesk.upsee2016@gmail.com](mailto:helpdesk.upsee2016@gmail.com) with *subject line : Seeking Help.*

## **21. KEY ELEMENTS OF ON-LINE APPLICATION FORM**

Read carefully the entire Information Brochure before filling the On-Line Application Form. The On-Line Application Form is self explanatory. Following are the key elements of the Application Form which will appear in the application (not necessarily in the order).

- (1) Name of the Candidate:** Write your FULL NAME (in English Capital Letters) as recorded in your High School or equivalent examination certificate
- (2) Father's Name:** Write FULL NAME (in English Capital Letters).
- (3) Mother's Name:** Write FULL NAME (in English Capital Letters).
- (4) Date of Birth:** Fill your date of birth exactly as recorded in your High School or equivalent examination certificate in dd/mm/yyyy format.
- (5) Nationality:** Choose "INDIAN" if your Nationality is Indian otherwise choose "OTHERS"
- (6) Gender:** Choose Male or Female or Third Gender (Transgender) whichever is applicable.
- (7) Parent's Domicile:** Choose "Uther Pradesh" if at least one of your parents

(Father/Mother) is domicile of U.P., Choose "Other than Uttar Pradesh" if none of your parents is domicile of U.P. and choose "GDDA" if belongs to clause 8.5 of Information Brochure.

**(8) Address for Communication:** Write your complete mailing address with pin code in CAPITAL LETTERS for postal communication.

**Contact Mobile Phone Number:** Write your mobile number. This mobile number will be used for communication with you during examination/admission process.

**E-Mail address:** Write your E-Mail address. This mail address will be used for communication with you during examination/admission process.

**(9) Qualifying Examination Details:**

**(a) Examination:** Choose appropriate option(s) whether you have passed or are appearing in Intermediate (10+2)/ Diploma in Engg./Diploma in Pharmacy/ Diploma in Agriculture Engg./Diploma in Architecture/Graduate

**(b) Qualifying Examination Passed/ Appearing from college situated in :**  
Choose "Uttar Pradesh" if you have passed or are appearing in qualifying examination from UP otherwise choose "Other than Uttar Pradesh".

**(c) Year of Passing / Appearing:** Write year of passing or appearing, whichever is applicable, the qualifying examination.

**(10) Subjects in Qualifying Examination:** Choose the subject group in which you have passed / are appearing in, Qualifying Examination.

**(11) Choice of City of Centre for Entrance Examination in order of preference:** Indicate three distinct choices for city of examination from where you wish to appear in UPSEE 2016. Refer to Clause 12 or Appendix-E of the Information Brochure for city of examination.

**(12) Category:** Choose applicable category whether you are a candidate of UPGE, UPSC, UPST, UPBC, UPGD, GDSC, GDST, GDBC, GDDA, OSGE. . Refer to Clause 8.1 to 8.6 of this Information Brochure

- (13) **Sub-Category:** Choose suitable subcategory depending upon whether you belong to sub-category UPFF, UPAF or UPHC otherwise choose "Not Applicable" if you do not belong to any of these sub-categories. Refer to Clause 9.2 to 9.9 of this Information Brochure.
- (14) **Rural Weightage Claimed:** Choose "YES" if you are eligible for and want to claim rural Weightage otherwise choose "NO". Refer to clause 10 of Information Brochure for rural weightage eligibility.
- (15) **Seeking Admission For:** Choose appropriate option First Year for UG or 2<sup>nd</sup> Year (Lateral Entry) or First Year for PG. Please note that this choice is linked with your qualification and subjects in the qualifying examination. Please refer to clause 3 & 4 of the Information Brochure.
- (16) **Course(s) APPLIED FOR:** Choose appropriate course name(s) to which you are seeking admission.
- (17) **Papers in which you wish to appear in UPSEE-2016:** Choose appropriate paper(s) in which you wish to appear. Refer Clause 4 of the Information Brochure.
- (18) **Photograph:** Upload scanned image of your recent 3.5 cm x 4.5 cm color photograph in JPEG format. The photograph which are not clear will be considered as an attempt of the act of impersonation and application form is liable to be rejected.
- (19) **Signature:** Upload scanned image of your signature in JPEG format.
- (20) **Left Thumb Impression:** Upload scanned image of your Left Thumb Impression in JPEG format.
- (21) **Declaration:** Read the declaration and accept the declaration by ticking the check box named "I agree" provided. Unless you accept the declaration by ticking the given check box, you will not be able to submit the form.
- (22) **Mode of Payment:** Choose the appropriate mode (Credit Card / Debit Card / Net Banking) of making payment of the prescribed examination fee and make



the payment. Please note that in addition to the examination fee, bank may charge additional amount as service charge and taxes as applicable on the transaction.

**(23) Fee Amount in Rupees:** Examination fee is Rs 1000.00 for Male/ Transgender candidates of General/OBC Category and Rs 500.00 for SC/ST candidates and female candidates / physically handicapped candidates of all categories. Please refer to Clause 16 of the Information Brochure.

**SYLLABI FOR UPSEE-2016**  
**PAPER – 1 (PHYSICS, CHEMISTRY & MATHEMATICS)**

**Section A, PHYSICS**

**Measurement:** Dimensional analysis and error estimation, dimensional compatibility and significant figures.

**Motion in one dimension:** Average velocity, instantaneous velocity, one-dimensional motion with constant accelerations, freely falling bodies.

**Laws of Motion:** Force and inertia, Newton's laws of motion, and their significance.

**Motion in two dimensions:** Projectile motion, uniform circular motion, tangential and radial acceleration in curve-linear motion, relative motion and relative acceleration.

**Work, Power and Energy:** Work done by a constant and variable forces, kinetic and potential energy, power, Conservative and non conservative forces, conservation of energy, gravitational energy, work energy theorem, potential energy stored in a spring.

**Linear Momentum & collisions:** Linear momentum & impulse, conservation of linear momentum for two particle system, collisions, collision in one dimension, collision in two dimension, rocket propulsion.

**Rotation of a rigid body about a fixed axis:** Angular velocity and angular acceleration, rotational kinematics, rotational motion with constant angular acceleration relationship between angular and linear quantities, rotational energy, moment of inertia for a ring, rod, spherical shell, sphere and plane lamina, torque and angular acceleration, work and energy in rotational motion, rolling motion of a solid sphere and cylinder.

**Gravitation:** Gravitational field, Kepler's laws and motion of planets, planetary and satellite motion, geostationary satellite.

**Oscillatory motion:** Harmonic motion, oscillatory motion of mass attached to a spring, kinetic & potential energy, Time Period of a simple pendulum, comparing simple and harmonic motion with uniform circular motion, forced oscillations, damped oscillations and resonance.

**Mechanics of solids and fluids:** States of matter young's modulus, bulk modulus, shear modulus of rigidity, variations of pressure with depth, Buoyant forces and Archimedes principle, Pascal's law, Bernoulli's theorem and its application, surface energy, surface tension, angle of contact, capillary rise, coefficient of viscosity, viscous force, terminal velocity, Stoke's law, stream line motion, Reynold's numbers.

**Heat and thermodynamics:** First law of thermodynamics, specific heat of an ideal gas at constant volume and constant pressure, relation between them, thermodynamics process (reversible, irreversible, isothermal, adiabatic), second law of thermodynamics, concept of entropy and concept of absolute scale, efficiency of a Carnot engine, thermal conductivity, Newton's law of cooling, black body radiation, Wien's displacement law, Stefan's law.

**Wave:** Wave motion, phase, amplitude and velocity of wave, newton's formula for longitudinal waves, propagation of sound waves in air, effect of temperature and pressure on velocity of sound, Laplace's

correction, Principle of superposition, formation of standing waves, standing waves in strings and pipes, beats, Doppler's effect.

**Electrostatics:** Coulomb's law, electric field and potential due to point charge, dipole and its field along the axis and perpendicular to axis, electric flux, Gauss's theorem and its applications to find the field due to infinite sheet of charge, and inside the hollow conducting sphere, capacitance, parallel plate capacitor with air and dielectric medium between the Plates, series and parallel combination of capacitors, energy of a capacitor, displacement currents.

**Current Electricity:** Concept of free and bound electrons, drift velocity and mobility, electric current, Ohm's law, resistivity, conductivity, temperature dependency of resistance, resistance in series and parallel combination, Kirchoff's law and their application to network of resistances, principle of potentiometer, effect of temperature on resistance and its application.

**Magnetic Effect of Current:** Magnetic field due to current, Biot-Savart's law, magnetic field due to solenoid, motion of charge in a magnetic field, force on a current carrying conductors and torque on current loop in a magnetic field, magnetic flux, forces between two parallel current carrying conductors, moving coil galvanometer and its conversion into ammeter and voltmeter.

**Magnetism in Matter:** The magnetization of substance due to orbital and spin motions of electrons, magnetic moment of atoms, diamagnetism, paramagnetism, ferromagnetism, earth's magnetic field and its components and their measurement.

**Electromagnetic induction:** Induced e.m.f., Faraday's laws, Lenz's law, electromagnetic induction, self and mutual induction, B-H curve, hysteresis loss and its importance, eddy currents.

**Ray Optics and optical instruments:** Sources of light, luminous intensity, luminous flux, illuminance, photometry, wave nature of light, Huygen's theory for propagation of light and rectilinear propagation of light, reflection of light, total internal reflection, reflection and refraction at spherical surfaces, focal length of a combination of lenses, spherical and chromatic aberration and their removal, refraction and dispersion of light due to a prism, simple and compound microscope, reflecting and refracting telescope, magnifying power and resolving power.

**Wave Optics:** Coherent and incoherent sources of light, interference, young's double slit experiment diffraction due to a single slit, linearly polarized light, Polaroid.

**Modern Physics:** Photo-electric equation, matter waves, quantization, Planck's hypothesis, Bohr's model of hydrogen atom and its spectra, ionisation potential, Rydberg constant, solar spectrum and Fraunhofer lines, fluorescence and phosphorescence, X-Rays and their productions, characteristic and continuous spectra.

Nuclear Instability, radioactive decay laws, Emission of  $\alpha$ ,  $\beta$ ,  $\gamma$  rays, Mass - defect, Mass Energy equivalence, Nuclear Fission Nuclear Reactors, Nuclear Fusion.

Classification of conductors, Insulators and semiconductors on the basis of energy bands in solids, PN junction, PN Diode, junction Transistors, Transistor as an amplifier and Oscillator.

Principles of Logic Gates ( AND, OR and NOT ) Analog Vs Digital communication, Difference between Radio and television, Signal propagation, Principle of LASER and MASER, Population Inversion, Spontaneous and stimulated Emission.

## **Section B, CHEMISTRY**

**Atomic Structure:** Bohr's concept. Quantum numbers, Electronic configuration, molecular orbital theory for homonuclear molecules, Pauli's exclusion principle.

**Chemical Bonding:** Electrovalency, co-valency, hybridization involving s,p and d orbitals hydrogen bonding.

**Redox Reactions:** Oxidation number, oxidising and reducing agents, balancing of equations.

**Chemical Equilibrium and Kinetics:** Equilibrium constant (for gaseous system only) Le Chaterlier's principle, ionic equilibrium, Ostwald's dilution law, hydrolysis, pH and buffer solution, solubility product, common-ion effect, rate constant and first order reaction.

**Acid - Base Concepts:** Bronsted Lowry & Lewis.

**Electrochemistry:** Electrode potential and electro-chemical series.

**Catalysis:** Types and applications.

**Colloids:** Types and preparation, Brownian movement, Tyndall effect, coagulation and peptization.

**Colligative Properties of Solution:** Lowering of vapour pressure, Osmotic pressure, depression of freezing point, elevation of boiling point, determination of molecular weight.

**Periodic Table:** Classification of elements on the basis of electronic configuration, properties of s,p and d block elements, ionization potential, electronegativity & electron affinity.

**Preparation and Properties of the following:** Hydrogen peroxide. copper sulphate, silver nitrate, plaster of paris, borax, Mohr's salt, alums, white and red lead, microcosmic salt and bleaching powder, sodium thiosulphate.

**Thermochemistry:** Exothermic & endothermic reactions Heat of reaction, Heat of combustion & formation, neutralisation, Hess's law.

**General Organic Chemistry:** Shape of organic compounds, Inductive effect, mesomeric effect, electrophiles & nucleophiles, Reaction intermediates: carboniumion, carbanions & free radical, Types of organic reactions, Cannizzaro Friedel Craft, Perkin, Aldol condensation.

**Isomerism:** Structural, Geometrical & Optical

**IUPAC:** Nomenclature of simple organic compounds.

**Polymers:** Addition & condensation polymers

**Carbohydrates:** Monosaccharides.

**Preparation and Properties Of the Followings:** Hydrocarbons, monohydric alcohols, aldehydes, ketones, monocarboxylic acids, primary amines, benzene, nitrobenzene, aniline, phenol, benzaldehyde, benzoic acid, Grignard Reagent.

**Solid State:** Structure of simple ionic compounds, Crystal imperfections (point defects only), Born-Haber cycle

**Petroleum:** Important industrial fractions, cracking, octane number, anti knocking compounds.

## **Section C, MATHEMATICS**

**Algebra:** Sets relations & functions, De-Morgan's Law, Mapping Inverse relations, Equivalence relations, Peano's axioms, Definition of rationals and integers through equivalence relation, Indices and surds, Solutions of simultaneous and quadratic equations, A.P., G.P. and H.P., Special sums i.e.  $\sum n^2$  and  $\sum n^3$  ( $n \in \mathbb{N}$ ), Partial fraction, Binomial theorem for any index, exponential series, Logarithm and Logarithmic

series. Determinants and their use in solving simultaneous linear equations, Matrices, Algebra of matrices, Inverse of a matrix, Use of matrix for solving equations.

**Probability:** Definition, Dependent and independent events, Numerical problem on addition and multiplication, theorem of probability.

**Trigonometry:** Identities, Trigonometric equations, properties of triangles, solution of triangles, heights and distances, Inverse function, Complex numbers and their properties, Cube roots of unity, De-Moivre's theorem.

**Co-ordinate Geometry:** Pair of straight lines, Circles, General equation of second degree, parabola, ellipse and hyperbola, tracing of conics.

**Calculus:** Limits & continuity of functions, Differentiation of function of function, tangents & normal, Simple examples of Maxima & Minima, Indeterminate forms, Integration of function by parts, by substitution and by partial fraction, definite integral, application to volumes and surfaces of frustums of sphere, cone and cylinder. Differential equations of first order and of first degree.

**Vectors :** Algebra of vectors, scalar and vector products of two and three vectors and their applications.

**Dynamics :** Velocity, composition of velocity, relative velocity, acceleration, composition of accelerations, Motion under gravity, Projectiles, Laws of motion, Principles of conservation of momentum and energy, direct impact of smooth bodies.

**Statics:** Composition of coplanar, concurrent and parallel forces moments and couples resultant of set of coplanar forces and condition of equilibrium, determination of centroid in simple cases, Problems involving friction.

## **PAPER – 2 (PHYSICS, CHEMISTRY & BIOLOGY)**

### **Section A, PHYSICS**

**Measurement:** Dimensional analysis and error estimation, dimensional compatibility and significant figures.

**Motion in one dimension:** Average velocity, instantaneous velocity, one-dimensional motion with constant accelerations, freely falling bodies.

**Laws of Motion:** Force and inertia, Newton's laws of motion, and their significance.

**Motion in two dimensions:** Projectile motion, uniform circular motion, tangential and radial acceleration in curve-linear motion, relative motion and relative acceleration.

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**Linear Momentum & collisions:** Linear momentum & impulse, conservation of linear momentum for two particle system, collisions, collision in one dimension, collision in two dimension, rocket propulsion.

**Rotation of a rigid body about a fixed axis:** Angular velocity and angular acceleration, rotational kinematics, rotational motion with constant angular acceleration relationship between angular and linear quantities, rotational energy, moment of inertia for a ring, rod, spherical shell, sphere and plane lamina, torque and angular acceleration, work and energy in rotational motion, rolling motion of a solid sphere and cylinder.

**Gravitation:** Gravitational field, Kepler's laws and motion of planets, planetary and satellite motion, geostationary satellite.

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**Current Electricity:** Concept of free and bound electrons, drift velocity and mobility, electric current, Ohm's law, resistivity, conductivity, temperature dependency of resistance, resistance in series and parallel combination, Kirchoff's law and their application to network of resistances, principle of potentiometer, effect of temperature on resistance and its application.

**Magnetic Effect of Current:** Magnetic field due to current, Biot-Savart's law, magnetic field due to solenoid, motion of charge in a magnetic field, force on a current carrying conductors and torque on current loop in a magnetic field, magnetic flux, forces between two parallel current carrying conductors, moving coil galvanometer and its conversion into ammeter and voltmeter.

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length of a combination of lenses, spherical and chromatic aberration and their removal, refraction and dispersion of light due to a prism, simple and compound microscope, reflecting and refracting telescope, magnifying power and resolving power.

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**Solid State:** Structure of simple ionic compounds, Crystal imperfections (point defects only), Born-Haber cycle

**Petroleum:** Important industrial fractions, cracking, octane number, anti knocking compounds.

## **Section C, BIOLOGY**

### **Zoology**

**Origin of Life:** Oparin's theory, Miller's Experiment, Viruses - structure, properties, distribution, classification and pathogenesis (Eg. AIDS, CANCER), Viroids & Prions, Biotic balance.

**Organic Evolution:** Relationship among organisms and Evidences of organic Evolution - Principles of Evolution - Lamarkism, Darwinism and Speciation.

**Mechanism of Organic Evolution:** Variations - Definition, causes and types, Mutations (Principles of Hugo de'veries), Role of mutations in speciation. Evolution through ages and human evolution

**Human Genetics and Eugenics:** Human hereditary traits, study of Twins, A.B.O. blood groups and their inheritance, Rh-factor, Sex determination. Chromosomal aberrations, Important human syndromes, Sex linked characters and their inheritance, Applied Genetics - eugenics, euthenics, euphenics & I.Q. Test.

**Applied Biology:** Wild life of India - Endangered species: Biosphere Reserves, National Parks and sanctuaries, Project Tiger, Conservation of wild life, Bio-energy, Poultry, Fisheries (edible fishes), Human Population, Population explosion, problems & control. Test - Tube babies, & Amniocentasis, Application of Biotechnology in human welfare. Human Aging.

**Mammalian Anatomy (Eg. Rabbit):** Reproductive system (excluding embryonic development) Osteology, structure and organization of different systems.

### **Animal Physiology:**

(A) *Animal Nutrition:* Food, Balanced diet, Nutritional imbalances and deficiency diseases, Digestion, Absorption, Assimilation of food, (comparison between human and Rabbit).

(B) *Animal Excretion and Osmoregulation:* Chemical nature of excretory products in various animals, Physiology of excretion, Function of liver and kidney (Homeostatic regulatory functions of kidneys), Formation of urine, Osmoregulation by kidneys.

(C) *Respiratory system:* Exchange and transport of gases ( $O_2$  and  $CO_2$ ) factors affecting  $O_2$  and  $CO_2$  transport, Cellular respiration, different lung volumes, breathing and sound production.



(D) *Nervous systems*: Central, autonomic and peripheral nervous system, Receptors, Effectors, Reflex-action. Nature and conduction of Nerve- impulses, Synapse, Sense organs - Structure & working of Eye & Ear, Biochemistry of vision and taste buds.

(E) *Endocrine System*: Different endocrine glands and Hormones - definition, types, characteristics and their functions, (in relation to human beings), Hormonal disorders and pheromones.

(F) *Circulatory System*: Circulation of body fluids- Blood and lymph, Open and closed vascular systems, Structure and working physiology of Heart, Comparison between arteries and veins, Lymphatic system.

(G) *Animal Diversity*: Classification of Animal kingdom (Based on Storer & Eusinger), Characteristic feature of different phyla and classes with examples.

***Detailed studies of followings:***

(a) Protozoa

(i) Amoeba- Habit & Habitat, structure, locomotion, reproduction, Osmoregulation, Parasitic amoebae - Entamoeba histolytica and Entamoeba gingivalis, structure, diseases caused by them and their control measures.

(ii) Plasmodium vivax-life-cycle, malaria therapy and control.

(iii) Protozoan and diseases

(b) Porifera: A simple sponge ( Leucosolenia); Detailed study of structure & physiology, Sponge industry.

(c) Coelenterata: Hydra - Habit and Habitat, morphology, tissue differentiation in relation to physiological division of labour and regeneration.

(d) Aschelminthes: Ascaris- morphology, life-cycle, therapy and control.

(e) Annelida: Pheretima posthuma - Bionomics and economic importance.

(f) Arthropoda: (Periplanata): Structure- external and internal.

**Comparison between Periplanata and Blatta.**

(i) Housefly & Mosquito: structure and life – cycle

(ii) Economic importance of insets & their control.

**Botany**

**Plant Cell**: Structure & functions electron microscopic structured mitochondria, Plastids centrosomes. Lysosomes, microsomes, endoplasmic reticulum, Nucleus, Golgibodes, D.N.A & R.N.A. Cytoplasm, membranes and cell wall.

**Protoplasm**: structure, components physical and chemical properties.

Cell division (formation) - free cell formation, Amitosis & Meosis, Duplication of D.N.A.

**Ecology**: Ecological factors (atmospheric, edaphic, climatic, geological & biotic factors).

**Ecosystem**: Structure, components of ecosystem eg. Water soluble minerals and gases, producers consumers, decomposers, Pond and forest ecosystem.

Atmospheric pollution-causes and control, Types of pollution - Detergents, chemicals automobile exhaust, Radioactive matter, Smog, sound, Pesticides.

**Genetics**: Mendalism, Mendals experiment and law of inheritance.

Modern Classification of plant kingdom- (according to Ostwald & Tippe) (outline).

**Seeds in angiospermic plants:** description of development of angiospermic plants (life history of angiospermic plants).

**Fruits:** Dispersal of fruits and seeds

**Cell differentiation Plant Tissue:** Meristematic classification of meristematic & permanent tissue and functions and classification of tissue system.

**Anatomy of Root, stem and leaf:** difference between dicot and Monocot stem. Secondary growth of stem and root. Anatomy of hydrophytes, Xerophytes & Mesophytes.

**Important phyla:**

Algae: Habitat, general characters & uses, description of *Ulothrix* & *Spirogyra*.

Bacteria: structure - types of nutrition, reproduction and economic importance.

Fungi: structure description of *Rhizopus* and yeast and their economic importance, Fermentation.

Bryophyta: structure and economic importance, description of *Funaria* (Moss)

Pteridophyta: general structures of pteridophytes description of fern (*Drosera*)

General study of gymnosperms and life history of *Cycas*.

Classification of angiosperms,

Description of families - identification and economic importance

Cruciferae, Malvaceae, Leguminosae, Compositae, Cucurbitaceae.

**Soil:**

Absorption of water through root hairs osmosis, Translocation and Root pressure

Nitrogen cycle.

Special modes of nutrition in plants (Autotrophic, heterotrophic, Parasites, saprophytes, Symbionts insectivorous and their ecological relation.

**Photosynthesis:** Chloroplast, light, chlorophyll and Carbon dioxide, Mechanism of photosynthesis formation of A.T.P. and their functions and importance of photosynthesis.

Transpiration: factors and importance, Mechanism of opening and closing of stomata.

Respiration: aerobic, anaerobic respiration, mechanism of respiration (Glycolysis, Krebs's cycle, E.T.S.)

Growth & movement: definition of growth, Region of growth & their measurements, types of movements in plants, Growth hormone.

## **PAPER – 3 (AG-I, AG II & AG III)**

### **AG – I: AGRICULTURAL PHYSICS AND CHEMISTRY**

#### **Agricultural Physics**

Unit, measurement, Vernier, screw gauge, Force-analysis, force parallelogram, momentum of force, equilibrium of forces, velocity and acceleration, speed, laws of motion, gravitational motion, acceleration due to gravity, circular motion, Centrifugal and centripetal forces, pressure, Capillary force and tension, atmospheric surface-barometer, Boyle's law, friction and simple example of its laws, Working of common pumps, operation, performance, power and energy, heat and temperature, radiation, convection and conduction, heat conductance, specific heat in relation to solids, physical change in the solid due to heat,

latent heat, relationship between heat and work, dewpoint, relative humidity and its determination, formation of clouds, fog, frost, snow and hail, weather and its forecasting.

### **Agricultural Chemistry**

Matter - solid and liquid, physical and chemical changes, element, mixture, compound, laws of chemical combination, laws of conservation, laws of proportion, laws of gases, explanation of above laws in reference to atomic principle, atomic laws, new & old concepts, definition, simple explanation and inter-relationship of the following:

Valency, atomic weight, molecular weight, equivalent weight, structure of atom, Avogadro's hypothesis and its uses, ionic theory, difference between atom and ion, explanation of the following with the help of ionic theory, electrolysis, acid, alkali, salt, water, hydrolysis and neutralisations, oxidation and reduction, classification of elements.

**Inorganic Chemistry:** Water and its hardness, methods of treatment of hard water and soft water, occurrence of compounds, properties and uses of the following elements nitrogen, ammonia, nitric acid, carbon, carbon dioxide, phosphoric acid, sulphur dioxide, sulphuric acid, chlorine, hydrochloric acid. Occurrence properties, uses and their functions in the plants of the following: Sodium, sodium chloride, sodium hydroxide, sodium carbonate, sodium bicarbonate, sodium phosphate, sodium nitrate, potassium sulphate, Calcium, calcium oxide, calcium carbonate, calcium sulphate and calcium nitrate, Iron, sulphate and iron phosphate, aluminium, aluminium sulphate and aluminium phosphate Nitrogen cycle, Fixation of nitrogen in the soil, function of Super-phosphate and phosphorus in plant, nitrogen fertilizers.

**Organic Chemistry:** Formation of organic compounds, physical properties, nomenclature, general knowledge of the following compounds, simple formulae, general properties and main uses, Structural formula of the following: Hydrocarbon (saturated and unsaturated) alcohol ethyl alcohol and glycol, aldehyde and ketones, formaldehyde, acetone, amine and oxide, methyl and ethylamine, urea, Acids: acetic, benzoic, lactic, Oxalic acids, fats and oils, soap and saponification, carbohydrates, glucose, fructose, starch, simple methods of making benzene and phenol and their properties.

## **AG – II: AGRICULTURAL ENGINEERING AND STATISTICS**

### **Agricultural Engineering**

Properties of different materials used in agricultural implements, Classification of plough their merits, comparison, common troubles in their operation and precautions, maintenance, assembly, cost and comparison of cultivation harrow, hoe, float, scraper and seed drill, draft of implements. Their measurements, factors affecting draft. Water lifts, their discharge, capacities, command area, and cost of irrigation ( water lifts should include common water lifts and low lift pumps ). Tillage and ploughing, types of ploughing and their merits. Types and objects tillage. Chemical and Physical effects of tillage practices for different crops. Transmission of power through gears. Pulleys and belts, hand operated chaff cutters, cane crusher, winnowing fan, and splat threshers.

### **Agricultural Statistics**

Collection of data, classification and tabulation, frequency distribution, mean and their kinds, merits and demerits. Measurements of dispersion.

## **AG – III: AGRONOMY & AGRICULTURAL BOTANY**

### **Agronomy**

**Crops:** Cultivation, practices of common crops of India and their varieties..

**Soils:** Origin, classification and physical properties of soils, soil conservation.

**Manures And Manuring:** Nutrients for plants growth, uptake of N.P.K. organic and inorganic fertilizers, farmyard and green manures, their properties and method of application, knowledge of following manures and fertilizer: FYM, compost, urinated soil, castor and groundnut cake, ammonium sulphate, sodium nitrate, super phosphate, potassium sulphate, urea, CAN ammonium chloride and mixtures.

**Irrigation & Drainage:** Methods, measurement and type of irrigation and drainage systems, Cultivation practices of common vegetable and fruit crops.

### **Agricultural Botany**

External morphology of plants, function and modification of stem, root and leaves, structure and function of different parts of flower, type of inflorescence, pollen and pollination, classification, structure, germination and dispersal of seeds, type of function and their dispersal, internal morphology of plant cell, reproductive organs of angiosperms, knowledge of structure of rlltharis, Absorption, Respiration, Transpiration and carbon assimilation, root pressure, Translocation of foods and storage, Introductory knowledge of Taxonomy and plant kingdom specially Regional and Horticultural plants laminaries, Cruciferease, Leguminaceae, Cucurbitaceae, Solonaceae, Malbaceae, Elementry Knowledge of mosses, ferns, mucors, bacteria.

## **PAPER – 4 (APTITUDE TEST FOR ARCHITECTURE)**

### **Part – A: Mathematics & Aesthetic Sensitivity**

#### **MATHEMATICS**

**Algebra:** Sets relations & functions, De-Morgan's Law, Mapping Inverse relations, Equivalence relations, Peano's axioms, Definition of rationals and integers through equivalence relation, Indices and surds, Solutions of simultaneous and quadratic equations, A.P., G.P. and H.P., Special sums i.e.  $\sum n^2$  and  $\sum n^3$  ( $n \in \mathbb{N}$ ), Partial fraction, Binomial theorem for any index, exponential series, Logarithm and Logarithmic series. Determinants and their use in solving simultaneous linear equations, Matrices, Algebra of matrices, Inverse of a matrix, Use of matrix for solving equations.

**Probability:** Definition, Dependent and independent events, Numerical problem on addition and multiplication, theorem of probability.

**Trigonometry:** Identities, Trigonometric equations, properties of triangles, solution of triangles, heights and distances, Inverse function, Complex numbers and their properties, Cube roots of unity, De-Moivre's theorem.

**Co-ordinate Geometry:** Pair of straight lines, Circles, General equation of second degree, parabola, ellipse and hyperbola, tracing of conics.

**Calculus:** Limits & continuity of functions, Differentiation of function of function, tangents & normal, Simple examples of Maxima & Minima, Indeterminate forms, Integration of function by parts, by substitution and by partial fraction, definite integral, application to volumes and surfaces of frustums of sphere, cone and cylinder. Differential equations of first order and of first degree.

**Vectors :** Algebra of vectors, scalar and vector products of two and three vectors and their applications.

**Dynamics :** Velocity, composition of velocity, relative velocity, acceleration, composition of accelerations, Motion under gravity, Projectiles, Laws of motion, Principles of conservation of momentum and energy, direct impact of smooth bodies.

**Statics:** Composition of coplanar, concurrent and parallel forces moments and couples resultant of set of coplanar forces and condition of equilibrium, determination of centroid in simple cases, Problems involving friction.

### **Aesthetic sensitivity**

Aesthetic sensitivity Test is aimed to evaluate a candidate for aesthetic Perception, Imagination, and Observation; Creativity and Communication; and Architectural awareness.

- Visualizing three dimensional objects from two dimensional drawings
- Visualizing different sides / surfaces of three dimensional objects.
- Identifying commonly used materials and objects based on their textural qualities.
- Analytical Reasoning
- Mental Ability
- Imaginative comprehension and expression
- Architectural awareness

### **Part- B: Drawing Aptitude**

The Drawing Aptitude Test is aimed to evaluate a candidate for his understanding of Scale and Proportion; sense of perspective, colour and; understanding of the effects of light on objects through shades and shadows

- Ability to sketch a given object proportionately and rendering the same in visually appealing manner
- Visualising and drawing the effects of light on the objects and their shadow cast on the surroundings.
- Sense of Perspective Drawing
- Combining and composing given three dimensional elements to form a building or structural form
- Creating interesting two dimensional compositions using given shapes or planner forms
- Creating visual harmony using colours in given composition
- Understanding of scale and sense of proportion

**PAPER – 5 (APTITUDE TEST FOR GENERAL AWARENESS  
(BHMCT/BFAD/BFA))**

**(A) Reasoning & Logical Deduction:**

- Geometrical designs & Identification
- Selection of related letters / words / numbers / figures
- Identification of odd thing / item out from a group
- Completion of numerical series based on the pattern / logic
- Fill in the blanks of the series based on the numerical pattern and logic of the series
- Syllogisms (logic based questions), Identification of logic & selection of correct answers based on the logic

**(B) Numerical Ability & Scientific Aptitude:**

- Arithmetical questions up to 10<sup>th</sup> standard
- Calculation of fraction, percentages, square roots etc.
- Profit & Loss and Interest calculations
- Data / Table analysis, Graph & Bar Diagram and Pie Chart analysis
- Questions related to common use of science (Physics & Chemistry)
- Health & Nutrition

**(C) General Knowledge:**

- Current affairs / Events (Political, Social, Cultural & Economics)
- Historical events
- Geography including Tourist Places / Spots
- Current affairs relating to Business & Trade
- Countries & Currencies
- Latest Who's Who?
- Sports & Games

**(D) English Language:**

- Word Meanings
- Antonyms & Synonyms
- Meaning of Phrases & Idioms
- Fill in the blanks
- Complete / Improvement of the sentences with correct use of Pronouns, Verbs, Adverbs & Adjectives
- Reading comprehension's followed by questions

## **PAPER – 6 (APTITUDE TEST FOR DIPLOMA HOLDERS IN ENGINEERING)**

Engineering Mechanics, Engineering Graphics, Basic Electrical Engg., Basic Electronics Engg., Elements of computer science, Elementary Biology, Basic Workshop Practice and Physics/Chemistry/Maths of Diploma standard.

## **PAPER – 7 (APTITUDE TEST FOR DIPLOMA HOLDERS IN PHARMACY)**

1. Pharmaceutics-I
2. Pharmaceutical Chemistry - I
3. Pharmacognosy
4. Biochemistry and Clinical Pathology
5. Human Anatomy and Physiology
6. Health Education & Community Pharmacy
7. Pharmaceutics - II
8. Pharmaceutical Chemistry - II
9. Pharmacology and Toxicology
10. Pharmaceutical Jurisprudence
11. Drug Store and Business management
12. Hospital and Clinical Pharmacy

## **PAPER – 8 (APTITUDE TEST FOR B.SC. GRADUATE IN ENGINEERING)**

**Linear Algebra:** Matrix Algebra, Systems of linear equations, Eigen values and eigen vectors.

**Calculus:** Mean value theorems, Theorems of integral calculus, Evaluation of definite and improper integrals, Partial Derivatives, Maxima and minima, multiple integrals, Fourier series. Vector identities, Directional derivatives, Line, Surface and Volume integrals, Stokes, Gauss and Green's theorems.

**Differential equations:** First order equation (linear and nonlinear), Higher order linear differential equations with constant coefficients, Method of variation of parameters, Cauchy's and Euler's equations, Initial and boundary value problems, Linear partial differential equations with constant coefficients of 2<sup>nd</sup> order and their classifications and variable separable method.

**Complex variables:** Analytic functions, Cauchy's integral theorem and integral formula, Taylor's and Laurent' series, Residue theorem, solution integrals.

**Probability and Statistics:** Sampling theorems, Conditional probability, Mean, median, mode and standard deviation, Random variables, Discrete and continuous distributions, Poisson, Normal and Binomial distribution, Correlation and regression analysis.

**Fourier Series:** Periodic functions, Trigonometric series, Fourier series of period  $2\pi$ , Eulers formulae, Functions having arbitrary period, Change of interval, Even and odd functions, Half range sine and cosine series.

**Transform Theory:** Laplace transform, Laplace transform of derivatives and integrals, Inverse Laplace transform, Laplace transform of periodic functions, Convolution theorem, Application to solve simple linear and simultaneous differential equations.

Fourier integral, Fourier complex transform, Fourier sine and cosine transforms and applications to simple heat transfer equations. Z – transform and its application to solve difference equations.

## PAPER – 9 (APTITUDE TEST FOR MBA)

The test is aimed at evaluating the verbal ability, quantitative aptitude, logical & abstract reasoning and knowledge of current affairs. The following is a brief description of contents of the test paper.

**Section A (English Language):** Grammar, vocabulary, uncommon words, sentence completion, synonyms, antonyms, relationship between words & phrases and comprehension of passages.

**Section B (Numerical Aptitude):** Numerical calculation, arithmetic, simple algebra, geometry and trigonometry, Interpretation of graphs, charts and tables.

**Section C (Thinking and Decision Making):** Creative thinking, unfamiliar relationships, verbal reasoning, finding patternstrends and Assessment of figures & diagrams.

**Section D (General Awareness):** Knowledge of current affairs and other issues related to trade, industry, economy, sports, culture and science.

## PAPER – 10 (APTITUDE TEST FOR MCA)

### (i) MATHEMATICS

**Modern Algebra:** Idempotent law, identities, complementary laws, Demorgan's theorem, mapping, inverse relation, equivalence relation, PIANO's Axiom, definition of rational numbers and integers through equivalence relation.

**Algebra:** Surds, solution of simultaneous and quadratic equations, arithmetic, geometric and harmonic progression, Binomial theorem for any index, logarithms, exponential and logarithmic series, determinants.

**Probability:** Definition, dependent and independent events, numerical problems on addition and multiplication of probability, theorems of probability.

**Trigonometry:** Simple identities, trigonometric equations, properties of triangles, use of mathematical tables, solution of triangles, height and distance, inverse functions, DeMoiver's theorem.

**Co-Ordinate Geometry:** Co-ordinate geometry of the straight lines, pair of straight lines, circle, parabola, ellipse and hyperbola and their properties.

**Calculus:** Differentiation of function of functions, tangents and normal, simple examples of maxima of minima, limits of function, integration of function (by parts, by substitution and by partial fraction), definite integral (application to volumes and surfaces of frustums of sphere, cone and cylinder).

**Vectors:** Position vector, addition and subtraction of vectors, scalar and vector products and their applications.



**Dynamics:** Velocity, composition of velocity, relative velocity, acceleration, composition of acceleration, motion under gravity, projectiles, laws of motions, principles of conservation of momentum and energy, direct impact of smooth bodies, pulleys.

**Statics:** Composition of co-planar, concurrent and parallel forces, moments and couples, resultant of set of coplanar forces and conditions of equilibrium, determination of Centroides in simple case, problems involving friction.

**(ii) STATISTICS**

Theory of probability, Mean, Median, Mode, Dispersion and Standard Deviation.

**(iii) LOGICAL ABILITY**

Questions to test analytical and reasoning capability of candidates.

**PAPER- 11**  
**APTITUDE TEST FOR MASTER IN APPLIED MANAGEMENT (MAM)**  
**(5 years Dual Degree course)**

The test is aimed at assess the language, quantitative aptitude, logic and reasoning power and general knowledge of candidates.

**Section A (English Language):** Grammar, Vocabulary, Synonyms, Antonyms, Sentence Completion and Phrases, Comprehension of Passages.

**Section B (Numerical Aptitude):** Arithmetic's, Algebra, Geometry, Trigonometry, Interpretation of Graphs, Charts and Tables.

**Section C (Mental Ability):** Reasoning Aptitude, Patterns, Trends, Recognition and Assessment of Figures and Diagrams.

**Section D (General Knowledge & Current Affairs):** Political Awareness, Economic Affairs and Business Environment, General Awareness of Sciences, Sports and Games, Society, History, Geography, Civilization and Culture.

**PAPER 12 APTITUDE TEST FOR 2nd Year MCA (Lateral Entry)**

**(I) MATHEMATICAL STRUCTURES**

**Modern Algebra and Matrices:** Algebraic structures and general properties, semigroups, groups. Rings and Fields: definitions, elementary properties and standard results. Matrices, operation on matrices, Inverse and rank of a matrix, Eigen values, eigenvectors and system of linear equations.

**Set Theory:** Introduction, sets and cardinals, combination of sets, multisets and set identities. Relations - definition, operations on relations, composite relations, properties of relations, partial order relations. Functions - definition, classification of functions, operations on functions, recursively defined functions.

**Number Theory and Methods of Proof:** Natural numbers, factorization and prime numbers, floor and ceiling functions. Methods of proof – Introduction, direct and indirect methods of proof, mathematical Induction.

**Combinatorics and Probability:** Introduction, counting techniques, Pigeonhole principle. Probability –definition, sample space, algebra of events, axioms of probability, prior and posterior probability, Bayes theorem.

(II) **COMPUTING CONCEPTS**

**Principles of Computer Science:** Computer organization - evaluation of computers, computer arithmetic, control design, processor design, input output organization, memory organization. Data Structures – Arrays, lists, stacks, queues. Trees and graphs - definition, properties and applications. Analysis of algorithms.

**Proposition logic and Boolean Algebra:** Propositions, truth tables, tautology, contradiction, algebra of propositions. Binary systems, axioms and theorems of Boolean algebra, Boolean functions and digital circuits.

**Numerical Techniques:** Floating point Arithmetic, solution of the system of linear equations, roots of polynomials, interpolation and curve fitting.

**Theory of Computation:** Finite-state machines, regular and non-regular languages, Turing machines and applications.

(III) **REASONING ABILITY**

Questions in this part will be aimed to assess the reasoning and logical ability of the candidates

**Appendix–B****(i) LIST OF BRANCHES OF ALL THE COURSES**

NAME OF BRANCHES	BRANCH CODE	STREAM
Aeronautical Engineering	AE	B.Tech.
Agricultural Engineering	AG	B.Tech
Applied Electronics & Instrumentation	AI	B.Tech
Architecture	AR	B.Arch.
Automobile Engineering	AU	B.Tech.
Bio Chemical Engineering	BC	B.Tech
Building Engg. & Construction Technology (Architecture)	BE	B.Arch.
Bio Medical Engineering	BM	B.Tech.
Bachelor of Pharmacy	BP	B.Pharm
Bio-Technology	BT	B.Tech.
Chemical & Alcohol Technology	CA	B.Tech.
Civil Engineering	CE	B.Tech.
Chemical Engineering	CH	B.Tech.
Computer Science	CO	B.Tech.
Computer Science & Engineering	CS	B.Tech.
Computer Science & Information Technology	CSI	B.Tech.
Electronics & Communication Engineering	EC	B.Tech.
Electrical Engineering	EE	B.Tech.
Electronics & Instrumentation Engineering	EI	B.Tech.
Electronics Engineering	EL	B.Tech.
Electrical & Electronics Engineering	EN	B.Tech.
Electronics & Telecomm Engineering	ET	B.Tech.
Electronics Instrumentation & Control	EX	B.Tech.
Environmental Engineering	EV	B.Tech.
Electronics & Computer Engineering	ECZ	B.Tech.
Electrical & Computer Engineering	EZ	B.Tech.
Fashion & Apparel Design	FD	B.FAD
Food Technology	FT	B.Tech.
Hotel Management	HM	BHMCT
Instrumentation & Control	IC	B.Tech.
Interior Design (Architecture )	ID	B.Arch
Instrumentation Engineering	IN	B.Tech.
Industrial Production Engg.	IP	B.Tech.
Information Technology	IT	B.Tech.

Leather Technology	LT	B.Tech.
Mechanical Engineering	ME	B.Tech.
Manufacturing Technology	MF	B.Tech.
Man Made Fiber Technology	MM	B.Tech.
Marine Engineering	MR	B.Tech.
Material & Metallurgical Engineering	MST	B.Tech.
Metallurgical Engineering	MT	B.Tech.
Mechanical & Industrial Engineering	MX	B.Tech.
Oil Technology	OT	B.Tech.
Production Engineering	PE	B.Tech.
Planning (Architecture)	PA	B.Arch.
Production & Industrial Engineering	PI	B.Tech.
Plastic Technology	PL	B.Tech.
Paint Technology	PT	B.Tech.
Textile Chemistry	TC	B.Tech.
Textile Technology	TT	B.Tech.
Textile Engineering	TX	B.Tech.
Fine Arts	FA	BFA

**(ii) LIST OF BRANCHES OF MBA & MCA COURSES**

<b>NAME OF BRANCHES</b>	<b>BRANCH CODE</b>	<b>STREAM</b>
Master of Business Administration (MBA)	M1	MBA
Master of Business Administration _Business Economics	M2	MBA
Master of Business Administration _Finance & Control	M3	MBA
Master of Business Administration _Tourism Management	M4	MBA
Master of Business Administration _International Business (IB)	M5	MBA
Master of Business Administration _Financial Management (FM)	M6	MBA
Master of Business Administration _Agri. Business	M17	MBA
Master of Business Administration _Marketing	M20	MBA
Master of Business Administration _E-Commerce	M21	MBA
Master of Business Administration _Human Resource & Development	M22	MBA
Master of Computer Applications	MCA	MCA

## **Appendix C**

### **List of Institutions/Branches/Intake of UG & PG Courses**

**Please see the Website: <http://www.upsee.nic.in> or <http://www.aktu.ac.in>**

## Appendix-D

### CERTIFICATE – 1 (प्रमाण पत्र-1)

#### अनुसूचित जाति/जनजाति (UPSC/UPST/GDSC/GDST)

(अभ्यर्थी के जन्म जिले के जिला मजिस्ट्रेट/प्रथम श्रेणी मजिस्ट्रेट द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0 ..... पुत्र/पुत्री श्री .....  
निवासी गाँव/शहर ..... तहसील ..... जिला .....  
प्रदेश ..... का जन्म ..... जाति में हुआ था और यह जाति अनुसूचित जाति/जनजाति  
आदेश (संशोधन) एक्ट 1956 के अन्तर्गत भारत सरकार/उत्तर प्रदेश शासन .....  
सरकार द्वारा मान्य अनुसूचित जाति/जनजाति है।

अभ्यर्थी के हस्ताक्षर

दिनांक

स्थान

हस्ताक्षर

नाम

मोहर

जिला अधिकारी / अतिरिक्त जिला अधिकारी /

सिटी मजिस्ट्रेट / परगना मजिस्ट्रेट / तहसीलदार

Note: Proforma of certificate shall be changed according to latest Govt. order.

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## CERTIFICATE – 2 (प्रमाण पत्र-2)

### उत्तर प्रदेश के अन्य पिछड़े वर्ग के लिए जाति प्रमाण पत्र का प्रपत्र (UPBC/GDBC)

यह प्रमाणित किया जाता है कि श्री/श्रीमती /कुमारी ..... सुपुत्र/सुपुत्री श्री .....निवासी ग्राम ..... तहसील ..... नगर ..... जिला ..... उत्तर प्रदेश राज्य की ..... पिछड़ी जाति के व्यक्ति हैं। यह जाति उत्तर प्रदेश लोक सेवा अनुसूचित जातियों । अनुसूचित जनजातियों तथा पिछड़े वर्गों के लिए आरक्षण अधिनियम, 1994 की अनुसूची – 1 के अन्तर्गत मान्यता प्राप्त है।

यह भी प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी ..... उक्त अधिनियम 1994 की अनुसूची –2 (अधिसूचना संख्या –22/16/92-का 02/1995 टी0 सी0 दिनांक 8 दिसम्बर, 1995 द्वारा यथा संशोधित) से आच्छादित नहीं है।

श्री/श्रीमती/कुमारी ..... तथा अथवा उनका परिवार उत्तर प्रदेश के ग्राम ..... श्री/श्रीमती/कुमारी ..... नगर ..... जिला ..... में सामान्यतया रहता है।

अभ्यर्थी के हस्ताक्षर

दिनांक

हस्ताक्षर

नाम

स्थान

मोहर

जिला अधिकारी / अतिरिक्त जिला अधिकारी /

सिटी मजिस्ट्रेट / परगना मजिस्ट्रेट / तहसीलदार

नोट- अभ्यर्थी ध्यान दें कि उ0प्र0 के अन्य पिछड़े वर्ग के लिए जाति प्रमाण अप्रैल 01, 2016 के पश्चात का बना हुआ होना आवश्यक है क्योंकि कीमीलेयर के अन्तर्गत आने वाले अभ्यर्थियों को आरक्षण का लाभ अनुमन्य नहीं है।

### CERTIFICATE – 3 (प्रमाण पत्र-3)

उत्तर प्रदेश के मूल/सामान्य निवासी के पुत्र/पुत्री (UPGD/GDSC/GDST/GDBC)  
(उस जिले के अधिकारी द्वारा प्रमाणित जिस जिले के माता/पिता निवासी है)

यह प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के पिता/माता का नाम) .....  
पिता/माता श्री/कु0(अभ्यर्थी का नाम)..... उत्तर प्रदेश के  
गाँव/शहर ..... तहसील ..... जिला ..... के मूल  
निवासी हैं तथा श्री/कु0 (अभ्यर्थी का नाम) ..... अपने पिता/माता पर  
पूर्णतया आश्रित हैं। उक्त पते पर श्री/कु0 (अभ्यर्थी का नाम) ..... के  
माता/पिता सामान्यतः निवास करते हैं।

दिनांक  
स्थान

हस्ताक्षर जिला मजिस्ट्रेट  
पूरा नाम  
पदनाम  
मुहर (जिला मजिस्ट्रेट की सील)

जिला मजिस्ट्रेट अथवा जिला मजिस्ट्रेट द्वारा अधिकृत अपर जिला मजिस्ट्रेट/सब डिवीजन मजिस्ट्रेट द्वारा  
प्रमाण पत्र ही मान्य होंगे जो शा0आ0 सं0-157/तीन -2003-77(II)/83 दिनांक 18 फरवरी, 2003 के  
अधीन जारी किया जायेगा।

नोट- प्रमाण पत्र-3 अभ्यर्थी के माता/पिता का बना होना चाहिए क्योंकि अभ्यर्थी जिन्होंने अर्हकारी परीक्षा  
उत्तर प्रदेश के बाहर स्थित किसी विद्यालय से उत्तीर्ण की है परन्तु उनके माता/पिता उत्तर प्रदेश के  
मूल/स्थाई निवास हैं परीक्षा में बैठने के पात्र हैं।

### CERTIFICATE – 4 (प्रमाण पत्र-4) (Sub-Category UPPF)

उत्तर प्रदेश लोक सेवा (शारीरिक रूप से विकलांग, स्वतंत्रता संग्राम सेनानी के आश्रितों और भूतपूर्व  
सैनिकों के लिए आरक्षण) अधिनियम, 1993 के अनुसार स्वतन्त्रता संग्राम सेनानी के आश्रित के प्रमाण पत्र  
का प्रपत्र

प्रमाणित किया जाता है कि श्री/श्रीमती (स्वतंत्रता संग्राम सेनानी का नाम) .....  
निवासी ग्राम ..... तहसील ..... नगर .....  
जिला ..... उत्तर प्रदेश लोक सेवा (शारीरिक रूप से विकलांग, स्वतंत्रता संग्राम सेनानी  
के आश्रितों और भूतपूर्व सैनिकों के लिए आरक्षण) अधिनियम 1993 के अनुसार स्वतन्त्रता संग्राम सेनानी हैं  
और श्री/श्रीमती/कु0(आश्रित अभ्यर्थी का नाम) .....  
पुत्र/पुत्री/पौत्र/अविवाहित पौत्री उपरांकित अधिनियम, 1993 के ही प्रावधानों के अनुसार उक्त  
श्री/श्रीमती (स्वतन्त्रता संग्राम सेनानी) ..... के आश्रित हैं।

दिनांक  
स्थान

हस्ताक्षर  
पूरा नाम एवं पदनाम  
मुहर (जिला मजिस्ट्रेट की सील)

Note: Proforma of certificate may be changed according to latest Govt. order.



## CERTIFICATE – 5 (प्रमाण पत्र-5)

उत्तर प्रदेश/सेना दल (Sub-Category UPAF)

(अंतिम यूनिट के आफिसर कमान्डिंग/जिला सैनिक कल्याण बोर्ड द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के पिता अथवा माता का नाम) .....  
निवासी गाँव/शहर ..... तहसील ..... जिला .....  
उत्तर प्रदेश, के दिनांक .....को सेवा निवृत्त (Superannuated) युद्ध में मारे गये/अपंग हो  
गये/उत्तर प्रदेश में वर्तमान में तैनात है। वे भारतीय थलसेना/जलसेना/वायुसेना के स्थान .....  
दिनांक..... से दिनांक ..... तक कार्यरत थे/हैं।

दिनांक

स्थान

यूनिट कमान्डिंग आफिसर के हस्ताक्षर

नाम

मोहर

(जिला मजिस्ट्रेट द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी) ..... निवासी .....  
उत्तर प्रदेश गाँव/शहर ..... तहसील ..... जिला ..... उपरोक्त  
सेना दल के सेवा निवृत्त (Superannuated) युद्ध में मारे गये या अपंग हो गये कर्मचारी जो उत्तर प्रदेश के  
स्थायी निवासी हैं/थे, के पुत्र/पुत्री हैं अथवा प्रवेश परीक्षा की तिथि ( अप्रैल 17/23 /24 अप्रैल, 2016)  
को उत्तर प्रदेश भारतीय थलसेना/जल सेना/वायुसेना में कार्यरत थे/हैं।

दिनांक

स्थान

हस्ताक्षर

नाम

मोहर

## CERTIFICATE – 6 (प्रमाण पत्र-6) (Sub-Category UPHC)

शारीरिक विकलांग के अधिमान के लिए प्रमाण पत्र (मुख्य चिकित्सा अधिकारी द्वारा प्रमाणित)

- 1- यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी) .....पुत्र/पुत्री श्री  
(पिता का नाम) .....नीचे लिखे कारणों से शारीरिक रूप से विकलांग हैं।  
(केवल मुख्य चिकित्सा अधिकारी ही कारण लिखें).....
2. अभ्यर्थी की उपरोक्त विकलांगता को निम्न प्रकार की विकलांगता की श्रेणी में रखा जा सकता है।  
(कृपया ✓ का निशान लगायें)

Type - I: Minimum 40% permanent Visual impairment	
Type-II: Minimum 40% permanent Locomoter disability	
Type-III: Minimum 40% permanent Speech Hearing impairment	

- 3- यह भी प्रमाणित किया जाता है कि उपरोक्त विकलांग स्थिति अभ्यर्थी के इन्जीनियरिंग शिक्षा प्राप्त करने में बाधक नहीं होगी।

अभ्यर्थी के हस्ताक्षर

नाम

दिनांक

चिकित्साधिकारी के हस्ताक्षर

नाम

मुहर

**CERTIFICATE – 7 (प्रमाण पत्र-7)**  
उत्तर प्रदेश ग्रामीण क्षेत्र के लिये अधिमान (UPGE)  
(कालेज के प्रधानाचार्य द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी) ..... ने .....  
..... कालेज गाँव ..... से इण्टरमीडिएट की शिक्षा प्राप्त की। यह  
कालेज तहसील ..... जिला ..... उत्तर प्रदेश के ग्रामीण क्षेत्र में  
स्थित हैं तथा ग्राम पंचायत के कार्य क्षेत्र के सीमा के अन्दर है और यह क्षेत्र औद्योगिक विकसित क्षेत्र नहीं  
है।

दिनांक ..... हस्ताक्षर .....

स्थान ..... नाम  
मुहर

(जिला विद्यालय निरीक्षक एवं जिला मजिस्ट्रेट द्वारा प्रमाणित)

प्रधानाचार्य द्वारा दिया गया कालेज की स्थिति से संबंध उपरोक्त वक्तव्य प्रमाणित किया जाता है।

दिनांक ..... हस्ताक्षर जिला विद्यालय निरीक्षक

स्थान ..... नाम

मुहर

दिनांक ..... प्रति हस्ताक्षरित जिला मजिस्ट्रेट

स्थान ..... नाम

मुहर

**CERTIFICATE – 8 (प्रमाण पत्र-8)**  
**CHARACTER CERTIFICATE FROM THE HEAD OF**  
**THE INSTITUTION LAST ATTESTED**

This is to certify that Sri / Km. \_\_\_\_\_  
has been a bonafide student of \_\_\_\_\_  
from \_\_\_\_\_ to \_\_\_\_\_ and  
has passes / appeared at the \_\_\_\_\_  
examination in the year \_\_\_\_\_

**Proctorial reports:**

1. Has he / she involved himself / herself if any act of indiscipline ? Yes / No
2. Has he / she been warned, Fined or punished for any act of indiscipline? Yes / No
3. Has he / she been restricted or expelled from Hostel of College for any reason? Yes/ No
4. Has he / she been involved in any act of indisiple outside the College campus like group clashes or fraction fights etc. Yes/ No
5. Has he / she been addicted to drugs or intoxicants? Yes/ No

**General remarks (Please state your assessment of the student)**

**Date :**

**Signature** \_\_\_\_\_

**Name** \_\_\_\_\_

**Designation** \_\_\_\_\_

## CERTIFICATE – 9 (प्रमाण पत्र-9)

### \* FORMAT FOR MEDICAL CERTIFICATE

(To be obtained from a Chief Medical Officer or Medical Officer of a participating U.P. State Funded Engg. Institute)

This certificate has to be submitted at the time of admission in the college allotted.

Name of Candidate:		Age:	Sex:		
UPSEE-2016 Roll No.:		Category:	Subcategory & Weighatge:		
State Rank Position:		Father's Name:			
( To be filled in by the Candidate )					
L.T.	M.I.	VISION	Colour Vision:		
Height	Weight		Chest	Abdomen	
History		Operation	Kockh's	Colics	B.P.
		Seizures	Asthma	Piles	Diabetes
E X A M I N A T I O N	Pulse	Tonsil	DNS	Hernia	
	Pallor	L.Nodes	CSOM	Hydrocele	
	Cardiovascular		CNS		
	Respiratory		GIT		
Genitourinary		Others			
Is the candidate physically handicapped/Disabled:		<input type="checkbox"/>	(Please tick) Yes / No		
If yes, type of handicap/disability:		<input type="checkbox"/>	Type -I: Minimum 40% permanent Visual impairment		
(Please tick ✓ the type of handicap/disability)		<input type="checkbox"/>	Type-II: Minimum 40% permanent Locomoter disability		
		<input type="checkbox"/>	Type-III: Minimum 40% permanent speech and Hearing impairment		
Any other finding:					
Certified that the candidate is physically fit/unfit/temporally disqualified to pursue engineering studies					

Signature of Candidate

Signature of the issuing Medical Officer ( with Official stamp)

## CERTIFICATE – 10 (प्रमाण पत्र-10)

### UNDERTAKING BY CANDIDATE FOR MEDICAL FITNESS

I certify that I have no such physical handicap/disability which would hinder the pursuit of studies in the courses in which I am seeking admission. If at stage it is found that I have a physical handicap/ disability which would hinder the pursuit of studies in the courses in which I am seeking admission then my admission will be liable to be cancelled. I will produce medical fitness certificate from a C.M.O./C.M.S. at the time of my joining the institution allotted by UPSEE-2016 counselling.

Dated:

Counter Signed by Father / Guardian

Signature of the Candidate

## CERTIFICATE – 11 (प्रमाण पत्र-11)

### अखिल भारतीय सेवा के उ0प्र0 कैंडर के अधिकारियों/कर्मचारियों हेतु

प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के माता/पिता का नाम) .....  
पदनाम .....विभाग का नाम ..... कैंडर संख्या .....  
.अखिल भारतीय सेवा के उ0प्र0 कैंडर के अधिकारी/कर्मचारी है तथा वर्तमान में इस कार्यालय में कार्यरत  
हैं। यह प्रमाण पत्र इनके पुत्र/पुत्री (अभ्यर्थी का नाम) .....को डा0  
ए0पी0जे0 अब्दुल कलाम प्राविधिक विश्वविद्यालय उत्तर प्रदेश, लखनऊ के अन्तर्गत प्रवेश हेतु प्रदान किया  
जाता है।

दिनांक: .....

विभागाध्यक्ष/कार्यालयाध्यक्ष का हस्ताक्षर  
नाम एवं पदनाम  
मुहर

## CERTIFICATE-12 (प्रमाण पत्र-12) (Income Certificate)

क्षेत्रीय भूलेख निरीक्षक तथा लेखपाल की जांच रिपोर्ट के आधार पर प्रमाणित किया जाता है कि  
----- (आवेदक के अभिभावक/माता/पिता का नाम) सुपुत्र  
----- निवासी/ग्राम ----- परगना  
----- तहसील ----- नगर ----- जिला  
----- राज्य ----- के स्वयं की मासिक आय रूपया  
----- तथा वार्षिक आय रूपया ----- है।  
लेखपाल की रिपोर्ट के अनुसार आय का स्रोत ----- है।

स्थान:

दिनांक:

तहसीलदार  
मुहर

नोट— अभ्यर्थी ध्यान दें कि उ0प्र0 के आर्थिक रूप से कमजोर अभ्यर्थियों के लिए प्रमाण पत्र अप्रैल 01,  
2016 के पश्चात का बना हुआ होना आवश्यक है।

## Appendix - E

The UPSEE-2016 will be held at various cities as given in the following tables. The candidates are advised to give three choices of examination cities.

- (i) **Paper 1, Paper 2, Paper 3 and Paper 4** are **OMR based Tests** and shall be held in various cities given in the **Examination City Table-I**
- (ii) **Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10, Paper 11 and Paper 12** are **Computer based Tests** and shall be held in various cities given in the **Examination City Table-II**.

**Examination City Table-I  
(OMR Based Test)  
[For Paper 1, Paper 2, Paper 3 and Paper 4]**

<p><b>Cities in State of U.P.</b></p> <ol style="list-style-type: none"> <li>1. Agra</li> <li>2. Firozabad</li> <li>3. Mathura</li> <li>4. Aligarh</li> <li>5. Allahabad</li> <li>6. Azamgarh</li> <li>7. Ballia</li> <li>8. Mau</li> <li>9. Bareilly</li> <li>10. Shahjahanpur</li> <li>11. Basti</li> <li>12. Banda</li> <li>13. Gonda</li> <li>14. Ambedkar Nagar</li> <li>15. Barabanki</li> <li>16. Faizabad</li> </ol>	<ol style="list-style-type: none"> <li>17. Sultanpur</li> <li>18. Deoria</li> <li>19. Gorakhpur</li> <li>20. Kushinagar</li> <li>21. Jalaun (Orai)</li> <li>22. Jhansi</li> <li>23. Etawah</li> <li>24. Kanpur Nagar</li> <li>25. Lakhimpur Kheri</li> <li>26. Lucknow</li> <li>27. Raebareli</li> <li>28. Sitapur</li> <li>29. Bulandshahr</li> <li>30. Gautam Buddha Nagar (Noida/Greater Noida)</li> <li>31. Ghaziabad</li> <li>32. Meerut</li> </ol>	<ol style="list-style-type: none"> <li>33. Mirzapur</li> <li>34. Bijnor</li> <li>35. Moradabad</li> <li>36. Muzaffarnagar</li> <li>37. Saharanpur</li> <li>38. Ghazipur</li> <li>39. Jaunpur</li> <li>40. Varanasi</li> </ol> <p><b>Cities in Other States</b></p> <ol style="list-style-type: none"> <li>41. Bhopal</li> <li>42. Dehradun</li> <li>43. Delhi</li> <li>44. Patna</li> <li>45. Ranchi</li> <li>46. Jaipur</li> <li>47. Kolkata</li> <li>48. Mumbai</li> </ol>
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**Examination City Table-II  
(Computer Based Test)  
[For Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10, Paper 11 and Paper 12]**

<ol style="list-style-type: none"> <li>1. Agra</li> <li>2. Aligarh</li> <li>3. Allahabad</li> <li>4. Bareilly</li> <li>5. Ghaziabad</li> </ol>	<ol style="list-style-type: none"> <li>6. Gorakhpur</li> <li>7. Gautam Buddha Nagar (Noida / Greater Noida)</li> <li>8. Jhansi</li> <li>9. Kanpur</li> <li>10. Lucknow</li> </ol>	<ol style="list-style-type: none"> <li>11. Mathura</li> <li>12. Meerut</li> <li>13. Moradabad</li> <li>14. Muzaffarnagar</li> <li>15. Varanasi</li> </ol>
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- (iii) **Candidates are advised to be very careful while giving their options for city of examination centre.** Candidates are advised to choose cities of examination on the basis of the paper he/she has opted from the respective tables i.e **Examination City Table-I** and/or **Examination City Table-II**.

- (iv) In case, candidate has opted papers in such a manner that some of these papers are the OMR based Tests (**Paper 1, Paper 2, Paper 3 and Paper 4**) and some of these papers are Computer based Tests (**Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10, Paper 11 and Paper 12**), the choices for city of examination must be chosen from the **Examination City Table-II only**.

For example,

- (a) If a candidate opts for **Paper 1 only**, he/she should refer to the **Examination City Table-I**.
- (b) If a candidate opts for **Paper 5 only**, he/she should refer to the **Examination City Table-II**.
- (c) **If a** candidate opts for two papers **Paper 1 and Paper 5**, he/ she should refer to the **Examination City Table-II**.
- (v) If any candidate chooses cities of examination where the examination for the paper opted is not being conducted, he/she shall be allotted an examination city from the respective list and same shall be binding upon the candidate.
- (vi) Certain examination cities may be cancelled if sufficient number of candidates does not opt for that city. Request for change of city of examination shall not be entertained under any circumstances.

## **Appendix-F**

अनुसूचित जाति, अनुसूचित जनजाति एवं ओबीसी जातियों के नाम \*

**The list of SC/ST/OBC categories shall be as notified by the Government of Uttar Pradesh as applicable on the day of counselling / admission.**

**The benefit of reserved categories/ subcategories/ rural weightage shall be admissible only upon submission of the required certificate in the format as given in Appendix-D.**

## IMPORTANT DATES

Opening of the link for Filling and Submission of <b>On-Line</b> Application Form form through the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a>	February 24, 2016, 11:00 AM
Last Date for Filling and submitting the On-Line Application Form	March 27, 2016, 05:00 PM
On-Line Partial Correction of filled and submitted On Line Application form through the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a>	From March 28, 2016, 11:00 AM To March 30, 2016, 05:00 PM
Opening of Link for Downloading of the Admit Card from the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a>	From April 08, 2016, 11:00 AM till date of examination
Declaration of UPSEE-2016 Result	On or before May 30, 2016
<p>Note:</p> <ul style="list-style-type: none"> <li>The Application Form can be filled On-Line only through the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a></li> <li>The Confirmation page printed after submission of On-Line Application Form need to be preserved by the candidates. Print-out/ hard copy/ photocopy of Confirmation page or any other document need not be sent to the University.</li> <li>The Admit Card shall be available to the candidates only through the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a></li> </ul>	

## SCHEDULE OF EXAMINATION

Date of Examination	Paper Code	Subjects	Timing (Total Time Period)
17 <sup>th</sup> April, 2016 (Sunday)	Paper 1/	Physics, Chemistry and Mathematics / Physics, Chemistry and Biology / AG-I, AG-II and AG-III	10:00 AM to 1:00 PM (3 Hours)
	Paper 2/		
	Paper 3		
	Paper 4	Aptitude Test for Architecture	2.30 PM to 5:00 PM ( 2 Hours 30 Minutes)
23 <sup>rd</sup> April, 2016 (Saturday)	Paper 5	Aptitude test for General Awareness (BHMCT/BFAD/BFA)	10:00 AM to 11:30 AM (1 Hour 30 Minutes)
	Paper 6/	Aptitude Test for Diploma Holders in Engg. / Aptitude Test for Diploma Holders in Pharmacy / Aptitude Test for B.Sc. Graduates	2:30 PM to 4:00 PM (1 Hour 30 Minutes)
	Paper 7/		
	Paper 8		
24 <sup>th</sup> April, 2016 (Sunday)	Paper 09/ Paper 11	Aptitude Test for MBA/ Aptitude Test for MAM	9:00 AM – 11:00 AM (2 Hours )
	Paper 10	Aptitude Test for MCA	1:00 PM – 3:00 PM (2 Hours )
	Paper 12	Aptitude Test for 2 <sup>nd</sup> Year MCA (Lateral Entry)	4:00 PM –6:00 PM (2 Hours )



# U.P. STATE ENTRANCE EXAMINATION

**Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh**

*(Formerly U.P. Technical University, Lucknow)*

IET Campus, Sitapur Road, Lucknow

## INFORMATION BROCHURE

### UPSEE – 2017

[ENGLISH VERSION]

**For Admission to**

**First Year of B. Tech /B.Arch./B.Pharm./  
BHMCT/BFAD/BFA/ MBA/MCA**

**And**

**2<sup>nd</sup> Year of B. Tech./B.Pharm./MCA (Lateral Entry)**

*Opening Date for filling of On-Line Application:*

**January 18, 2017 (11:00 AM)**

*Last Date for Submission of Application:*

**February 28, 2017 (05:00 PM)**

*Date of Examinations:*

**April 16, 2017 (Sunday)**

**and**

**April 22, 2017 (Saturday) & April 23, 2017 (Sunday)**

**Website**

**<http://www.upsee.nic.in>**

#### **Help Desk**

Toll free Number : 1800-180-0161

E-Mail : [helpdeskupsee17@gmail.com](mailto:helpdeskupsee17@gmail.com)

#### **Contact Address:**

Registrar

**Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh**

IET Campus, Sitapur Road, Lucknow – 226 021 (U.P)

Phone: 0522 – 2732193, Fax: 0522 – 2732185

E-Mail: [registrar@aktu.ac.in](mailto:registrar@aktu.ac.in)

Website: <https://aktu.ac.in>

**For Admission to First Year of B. Tech. / B.Tech. (Biotechnology)/ B.Tech. (Agriculture Engg.) / B.Arch. / B.Pharm./ BHMCT/BFAD/BFA/MBA/MCA and 2<sup>nd</sup> Year (Lateral Entry) of B. Tech/B.Pharm./MCA**

1. **Application to the UPSEE-2017 can be made On-Line only.** Candidates are required to fill the Application Form On-Line through the website <http://www.upsee.nic.in>.
2. On-Line application form through the website <http://www.upsee.nic.in> can be submitted from **18<sup>th</sup> January 2017 (11:00 AM) to 28<sup>th</sup> February 2017 (05:00PM)**
3. Candidates are advised to read this Information Brochure carefully, check their eligibility and applicable reservation category etc. before filling and submitting the application form.
4. This Entrance Examination is open to the candidates who have passed the qualifying examination from any institution located in U.P. **or** whose parents are domicile of U.P subject to the eligibility conditions given in this Information Brochure. If the candidate has passed qualifying examination from outside U.P., he/she has to produce domicile certificate of his/her parents (**Father OR Mother only**) at the time of verification of the document.
5. **This Entrance Examination is also open to the candidates who have passed the qualifying examination from any institution located outside U.P. and whose parents (both Father and Mother) are not domicile of U.P subject to the eligibility conditions given in this Information Brochure.**
6. For submission of the On-Line application form refer section 18, 19, 20 and 21 of this Information Brochure.
7. Please note that candidates do not need to send “Confirmation Page” printed after completion and submission of On-Line application form to the University. However, the Candidate should keep the printout of the Confirmation page for record. Candidates are also advised to note down the **Application Form Number** for any future correspondences.
8. Candidates do not need to send hard copy / photo copy of any document, whatsoever, to the University at this stage.
9. **\*\*State Govt. has permitted 10% of the total sanctioned seats available in Technology / Architecture courses in private institutions affiliated to AKTU to be filled through merit of Non U.P. Domicile candidates without reservation subject to eligibility conditions given in this Information Brochure. Thus, 10% of the total sanctioned seats in Technology / Architecture courses in Private Institutions, affiliated to AKTU, shall be opened to the candidates whose parent belongs to the State other than Uttar Pradesh and has passed qualifying examination from an Institution located outside U.P. These seats shall be filled on the basis of UPSEE-2017 Merit.**
10. There is no age limit for admission to the courses covered in UPSEE-2017.
11. Accepting admission in any institution implies acceptance by the candidate and his/her parents or guardians with all the provisions given in this Information Brochure. Any change in the rules, regulations, fee and special conditions etc. of that institution shall mutatis mutandis apply to the admitted candidate.
12. Candidates filling the On-Line Application Form are required to upload scanned images of his/her latest color photograph, left hand thumb impression and signature. Application forms having blurred photographs are liable to be rejected.
13. Candidates claiming advantage of reserved categories, subcategories, rural weightage etc. must be required to indicate in the Application Form and are not required to send any certificate to the University at this stage. These certificates, in original, will have to be produced at the time of Document Verification alongwith one self attested copy of each one of them. The proforma of the certificates are given at the end of this Information Brochure at **Appendix-D**, which are subject to change even upto the date of admission, as per the orders of Govt. of Uttar Pradesh. **Note that the certificate no. 2 for OBC candidates will be entertained only if it is issued on or after 01.04.2017 (mandatory due to condition of creamy layer for OBC).**
14. Candidates who are due to appear for the qualifying examination or have appeared, but results are awaited, are also eligible to appear in the UPSEE-2017. However, the candidates in respect of whom, the result of the qualifying examination has not been declared till the date of the document verification, due to any reason whatsoever, **shall not be eligible** for admission **under any** circumstances.
15. The result of UPSEE-2017 declared by Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow shall be final. However, the candidate can get his/her answer sheets scrutinized on payment of Rs. 5000/- per paper within seven days of declaration of result. The application for scrutiny may be submitted to the Registrar, Dr. A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow (U.P.) 226021 in writing.

**\*\* The above 10% rule is subject to change as per the U.P. Govt. orders till the date of Counseling.**

16. If any document/declaration submitted by the candidate is found to be false at any stage, his/her admission shall be cancelled and he/she may be liable for prosecution under the law. In case of any legal dispute, the jurisdiction will be limited to Lucknow courts only.
17. The candidate must himself/ herself ensure about his/her eligibility to appear in the Entrance Examination. If a candidate, who is not eligible to appear in the examination, does so; he/ she will not have any claim whatsoever, for admission to any course through UPSEE-2017.
18. The Entrance Examination Fee for UPSEE-2017 is **Rs. 1200/- for Male/Transgender candidates of General & OBC category and Rs. 600/- for Female candidates/ Physically Handicapped candidates of all categories and SC/ST candidates.**
19. The number of Colleges / Institutions, courses and seats may increase or decrease upto the counselling dates.
20. If any of the qualifying examination Board/University awards only letter grades without providing an equivalent percentage of mark on the grade sheet, the candidate should obtain a certificate from the Board/ University specifying equivalent marks and submit it at the time of document verification. In case, such a certificate is not provided by the candidate, the decision of the Central Admission Board (CAB) regarding his / her eligibility shall be final.
21. The allotment of seat through counselling will be carried out strictly in accordance with the UPSEE-2017 merit of the candidate, subject to the order of preference given for the seats and availability of seat in the category. **Once the seat is allotted to the candidate, no change in the Institution / Branch is admissible.**
22. **The fee paid at the time of counselling by the candidate after the allotment of seat will be forfeited** and will not be refunded under any circumstances, if the candidate does not report for the admission to the allotted institutions.
23. **No tuition fee shall be charged from eligible SC/ST candidates** by the institutions affiliated to AKTU, Lucknow at the time of granting admission as per U.P. Govt. order no. 37 Bha.Saa./26-03-04-4(77)/02 dated:18-06-04. A relaxation in the **tuition fee amount equal to tuition fee of Government Institutions** has been granted to OBC / General Category economically weaker students by the Govt. vide order no. 4136/solah-1-2008-135/2008 dated: 8-10-08 and 2991/solah-1-2008-14(34)/2008 dated: 16-09-08. The candidate will have to produce the required prescribed certificate / documents in the institution as enforced vide G.O. no. 6048/solah-1-2008-1(17)/2008 dated 06-01-08. **Govt. orders released time to time shall be applicable.** The institutions will charge tuition fee after granting this relaxation to the eligible candidates as per the current fee structure determined by the fee determination committee available at website [www.afrcup.in](http://www.afrcup.in).
24. This Information Brochure is both in English and Hindi languages. In case of any discrepancy, the **English version shall be final** for all purposes.
25. All information in connection with UPSEE-2017 shall be made through University Website <http://www.upsee.nic.in> or <https://aktu.ac.in>. The candidates are advised to refer to this website regularly/frequently failing which AKTU will not be responsible for any loss due to the lack of communication.
26. In case of any deficiency in application form, it is likely to be rejected and sole responsibility of its consequences will lie on the candidate and representation in this regard shall not be entertained.
27. Abbreviations used:
 

<b>AKTU</b>	-	Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow
<b>AIU</b>	-	Association of Indian Universities
<b>UPSEE-2017</b>	-	Uttar Pradesh State Entrance Examination - 2017
<b>B. Tech.</b>	-	Bachelor of Technology
<b>B. Pharm.</b>	-	Bachelor of Pharmacy
<b>B. Arch.</b>	-	Bachelor of Architecture
<b>BHMCT</b>	-	Bachelor of Hotel Management & Catering Technology
<b>BFAD</b>	-	Bachelor of Fashion & Apparel Design
<b>BFA</b>	-	Bachelor of Fine Arts
<b>MBA</b>	-	Master of Business Administration
<b>MCA</b>	-	Master of Computer Application

**Note: UPSEE-2017 is being conducted for admission to all the Technical Institutions / Colleges affiliated to the AKTU, Lucknow. Admissions in some of the courses in the other Universities of U.P. are also done through UPSEE-2017.**

**U P STATE ENTRANCE EXAMINATION (UPSEE – 2017)**  
**For Admission to First Year of B. Tech. / B.Tech. (Biotechnology)/ B.Tech. (Agriculture Engg.) / B.Arch. / B.Pharm./ BHMCT/BFAD/BFA/MBA/MCA**  
**and 2<sup>nd</sup> Year (Lateral Entry) of B. Tech/B.Pharm./MCA**

**1. CENTRAL ADMISSION BOARD (CAB)**

The entrance examination for degree level engineering institutions and other professional colleges has been assigned to Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow vide Govt. order no. 4929/सोलह-1-2016-14(54)/2012 dated 21-12-2016. The Govt. of Uttar Pradesh, Technical Education Department, has consented for the constitution of Central Admission Board (CAB) under the Chairmanship of the Vice Chancellor, Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow to supervise and control the State Entrance Examination herein after referred as UPSEE-2017 being conducted by Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow. The CAB has absolute rights for conducting of UPSEE-2017, and to decide about modalities of admissions and allotment of seats. The jurisdiction of CAB extends to colleges / institutes affiliated to AKTU, Lucknow. The CAB is authorised to take every decision regarding conduct and admissions through UPSEE-2017.

**2. MODE OF ADMISSION**

**2.1. ADMISSION TO FIRST YEAR**

The Entrance Examination for admission to first year of the following courses offered at the Institutions affiliated to AKTU, Lucknow including other mentioned universities situated in territory of Uttar Pradesh for the academic year 2017-2018 shall be conducted by Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow.

- |   |                           |
|---|---------------------------|
| (i) 4 years B.Tech./B.Tech.(Ag. Engg.) Course | (v) 4 years BFAD Course   |
| (ii) 4 years B.Pharm. Course                  | (vi) 4 years BFA Courses  |
| (iii) 5 years B.Arch. Course                  | (vii) 3 years MCA Course  |
| (iv) 4 years BHMCT Course                     | (viii) 2 years MBA Course |

**2.2. DIRECT ADMISSION (LATERAL ENTRY) TO SECOND YEAR OF B.TECH./ B.PHARM./MCA**

- (i)<sup>1</sup> The eligible candidates (Refer clause 3.3) seeking direct admission to second year of B.Tech. (for engineering diploma holders and B.Sc. graduates) or B.Pharm. (Only for pharmacy diploma holders) or MCA (for BCA, B.Sc (IT/ Computer Science) degree holders) in institutions affiliated to AKTU, Lucknow are required to submit the application forms by the last date. Such candidates are also required to appear in the specified paper of entrance examination.
- (ii)<sup>2</sup> Such seats are limited to a maximum of 20% of previous year sanctioned intake in institutions/ colleges for different courses at first year level.
- (iii) However for B.Tech., the students belonging to the B.Sc. stream shall be considered **ONLY AFTER** filling the seats in this category with students of Diploma stream.
- (iv) Direct admission to Second year shall **not** be made in B.Arch./BHMCT/BFAD/BFA/MBA/ Courses.

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<sup>1</sup> As per AICTE Notifications F-11-140/2004-NRO/AICTE-33 dated 9-06-2004 & F.37-3/Legal/2007 dated 12.01.07 and U.P.Govt. Order no. 256 / Solah – 1 – 2007 – 1(01) / 2005 dated 14.02.07.

<sup>2</sup> Subject to change as per latest orders of Govt. of U.P. / AKTU upto the date of counselling.

### **2.3. SEATS UNDER DIFFERENT SCHEME IN FIRST YEAR**

- (i) Number of admissions in all courses offered at Institutions affiliated to AKTU, Lucknow, will be only through UPSEE-2017 after deducting the seats filled under clause 2.4.
- (ii) State Govt. has permitted 15%<sup>3</sup> of total sanctioned seats available in Private Institutions to be filled by the Management quota /NRI candidates; and the same shall be filled up in accordance with the procedure prescribed in the Govt. orders. The remaining seats in various courses offered at all the Institutions affiliated to AKTU, Lucknow will be filled through UPSEE-2017 counselling.
- (iii) **\*\*State Govt. has permitted 10% of the total sanctioned seats available in Technology / Architecture courses in private institutions affiliated to AKTU to be filled through merit of Non U.P. Domicile candidates without reservation subject to eligibility conditions given in this Information Brochure. Thus, 10% of the total sanctioned seats in Technology / Architecture courses in Private Institutions, affiliated to AKTU, shall be opened to the candidates whose parent belongs to the State other than Uttar Pradesh and has passed qualifying examination from an Institution located outside U.P. These seats shall be filled on the basis of UPSEE-2017 Merit.**
- (iv) Thus, for Government/ Government Aided/ Govt.Self Financed Institutes, 100% seats in all courses in first year will be filled by UPSEE-2017 qualified candidates.
- (v) For private colleges 85% seats in all the courses will be filled by UPSEE-2017 qualified candidates.

### **2.4. ADMISSION TO NON-RESIDENT INDIAN (NRI) CANDIDATES IN FIRST YEAR**

NRI candidates, who possess prescribed qualifications (clause 3.4), may get direct admission on 5% seats of total intake in Govt. / Govt. aided and Private Institutions having approval from AICTE for NRI seats on merit, subject to the latest instructions of Govt. of U.P. The detailed information will be published in the month of May 2017 in various newspapers and university website. The candidates, seeking for admission under this scheme, need not appear in UPSEE-2017. However applicants opting B.Arch. course under this category has to appear in an Aptitude Test on the day of counseling to be notified later.

### **2.5. ADMISSION TO KASHMIRI MIGRANTS IN FIRST YEAR**

Direct admission to Kashmiri Migrants in first year in each institute is to be made as per the latest instructions of AICTE and orders from U.P. Govt. Such admissions will be over and above the sanctioned intake and normally limited upto one admission per Institute affiliated to AKTU, Lucknow. The detailed information will be published in the month of May 2017 in various newspapers and University website <https://aktu.ac.in>. The candidates, opting for admission under this scheme, need not appear in UPSEE-2017.

**The B.Arch course does not exist for such candidates.**

### **2.6. ADMISSION TO FOREIGN NATIONALS (FN) / PERSONS OF INDIAN ORIGIN (PIO) / CHILDREN OF INDIAN WORKERS IN GULF COUNTRIES (CIWGC)**

Under the approval of AICTE, identified institutions shall admit FN/PIO/CIWGC up to the extent sanctioned by AICTE as per the eligibility criteria (clause 3.5) and guidelines of the University. These supernumerary seats shall be exclusively meant for the FN/PIO/CIWGC students in undergraduate courses with the condition that under no circumstances a seat remained unfilled

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<sup>3</sup> It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling.

**\*\* The above 10% rule is subject to change as per the U.P. Govt. orders till the date of Counseling.**

shall be allocated to candidates other than a FN/PIO/CIWGC. The candidates, opting for admission under this scheme, need not appear in UPSEE-2017.

**The B.Arch course does not exist for such candidates.**

## 2.7. ADMISSION TO FEE WAIVER SEATS FOR ECONOMICALLY WEAKER MERITORIOUS STUDENTS

As per AICTE notification fee waiver seats for economically weaker meritorious candidates are also available in B.Tech/ B.Pharm/B.HMCT/B.FAD/BFA courses in all institutions affiliated to AKTU, Lucknow. No tuition fee will be charged from the candidates admitted against such seats. The fee waiver seats will be limited to maximum of 5% of the approved intake in the course, and will be over and above of the sanctioned intake. The economically weaker students must submit certificate no. 12 (Income Certificate) at the time of verification of documents.

**No Tuition Fee Waiver seats are available for B.Arch. Courses.**

## 3. ELIGIBILITY CRITERIA

The candidates must fulfill the eligibility criteria as given in clause 3.1/3.2/3.3 to appear in UPSEE-2017. However, the candidates appearing in the qualifying examinations are also eligible to appear, subject to the condition that they must fulfill the eligibility criteria as given in clause 3.1/3.2/3.3 at the time of counselling.

### 3.1. ELIGIBILITY TO APPEAR IN UPSEE-2017 FOR ADMISSION TO FIRST YEAR OF B.TECH. / B.ARCH. / B.PHARM. / BHMCT / BFAD / BFA

- (i) The subject combination required in the qualifying examination (intermediate examination of U.P. Board or 10+2 level examination or its equivalent) for admission to first year of different courses shall be as follows:

Course	Compulsory Subjects	Anyone of the following Subjects
B. Tech.	Physics & Mathematics	Chemistry/ Bio-Technology / Biology / Technical Vocational subject
B. Tech.(Bio-Technology)	(i) Physics & (ii) Mathematics <b>OR</b> Biology	Chemistry/ Bio-Technology / Technical Vocational subject
B. Arch.	Physics & Mathematics	Chemistry/ Computer Science/ Biology/ Engineering Drawing / Technical Vocational subject
B. Pharm.	Physics & Chemistry	Mathematics/ Bio-Technology/ Biology / Technical Vocational Subject
B.Tech. (Agriculture Engg.)	Agriculture discipline.*	
BHMCT / BFAD/BFA	Any discipline.	

\* Please read point No. 3.1(vi).

- (ii) For admission to first year of B.Tech./ B.Pharm., candidate must have clearly passed intermediate examination of U.P. Board or 10+2 level examination or its equivalent from any recognized Board / University **without grace** in required each compulsory subjects and one optional subject as given in clause 3.1 (i) and securing minimum 45% marks (40% marks for SC/ST Category candidates) **in aggregate** in required three subjects.
- (iii) For admission to first year of BHMCT/BFAD/BFA, candidate must have clearly passed intermediate examination of U. P. Board or 10+2 level examination or its equivalent from any recognized Board / University and securing minimum 45% marks **without grace** (40% marks for SC/ST category candidates) **in aggregate**.

- (iv) For admission to first year of B. Arch., a candidate must have clearly passed intermediate examination of U. P. Board or 10 + 2 level examination or its equivalent from any recognized Board / University and securing (i) minimum 50% marks **in aggregate** and (ii) clearly passed **without grace**, each compulsory and optional subjects as given in clause 3.1(i).
- (v) A candidate possessing three years Diploma in Architecture (10+3) recognized by Central / State Govt., is also eligible for admission to first year of B. Arch. only, and provided the candidate has passed the Diploma examination securing minimum 50% marks **in aggregate without grace**. Such candidates will have to appear in the entrance examination for first year of B. Arch. Paper 4 (clause 4.3).
- (vi) For admission to first year of B.Tech.(Agriculture), candidate must have clearly passed intermediate examination of U. P. Board or 10+2 level examination or its equivalent from any recognized Board / University in agricultural subjects and secured minimum 45% marks **without grace** (40% marks for SC/ST category candidates) **in aggregate. Also all First year B.Tech. Eligible candidates are also eligible for B.Tech. Agriculture.**
- (vii) All candidates who are eligible for admission in B.Tech. Courses are also eligible for B.Tech. (Agriculture Engineering) and B.Tech. (Biotechnology).

### 3.2. ELIGIBILITY TO APPEAR IN UPSEE-2017 FOR ADMISSION TO FIRST YEAR OF MBA/ MCA

- (i) For admission to first year of MBA in any institution affiliated to AKTU, Lucknow, a candidate must have passed Bachelors degree course of three years minimum duration from any recognized Indian University; or its equivalent, recognized by A.I.U securing minimum 50% (45% for SC/ST) marks **in aggregate.**
- (ii) For admission to first year of MCA in any institution affiliated to AKTU, Lucknow, a candidate must have passed Bachelors degree course of three years minimum duration from any recognized Indian University; or its equivalent, recognized by A.I.U. securing minimum 50% (45% for SC/ST) marks **in aggregate.** Candidate must have passed Mathematics at 10+2 level or Graduation level.
- (iii) For admission to first year of MBA/MCA in other Universities of U.P., a candidate must have passed Bachelor degree course with the eligibility conditions given in following table subject to the confirmation received from the concerned University:

Sl. No.	Name of University/ Institutions	Course(s)	Minimum pass marks at three years Graduation level	Remarks/ Compulsory conditions
1	C.S.J.M. Kanpur University, Kanpur	MBA MBA-Finance & Control (M3) MBA-Business Economic(M2) MBA-Tourism Management(M4)	As per AICTE norms.	
		MCA	As per AICTE norms.	Maths at 10+2 level.
2	Dr. R. M. L. Avadh University, Faizabad	MBA	Graduate with 50% marks	
		MCA	Graduate	Maths at 10+2 or Graduation level.

3	M.G. Kashi Vidyapith University, Varanasi	MBA	Graduate	
		MCA	Graduate with 45% marks	Maths at 10+2 level.
4	V.B.S. Purvanchal University, Jaunpur	MBA (M1) MBA Agri. Business (M17) MBA E-Commerce (M21) MBA Business Economics (M2) MBA Finance & Control (M3) MBA Human Research & Development (M22)	As per UPSEE norms.	
		MCA	As per UPSEE norms.	Maths at 10+2 or Graduation level
5	M.J.P. Rohilkhand University, Bareilly	MBA (General) (M1) MBA (Marketing) (M20)	Graduation 50%	
		MCA	As per UPSEE norms	Maths at 10+2 or Graduation level.
6	D.D.U. Gorakhpur University, Gorakhpur	MBA	Minimum 40% marks at Graduation level	
7	Institute of Business Studies, Ch. Charan Singh University, Meerut	MBA	Graduate	
	Sir Chhotu Ram Institute of Engineering & Technology, Ch. Charan Singh Campus, Meerut	MBA (M1) MBA-IB (M5)	Graduate	
		MCA	Graduate	Maths at 10+2 or Graduation level.
8	Dr. B.R. Ambedkar University, Agra	MBA	As per UPSEE	
		MCA	As per UPSEE	
9	Bundelkhand University, Jhansi	MBA MBA (International Business)(M5) MBA (Finance Management)(M6) MBA (Tourism Management)(M4)	50%	
		MCA	50% in B.Sc.(Maths/Stats)/BCA/ B.Sc.IT /B.Sc.(CS)/B.Sc.(IT). Maths at 10+2 level is compulsory	
10	Uttar Pradesh Vikalang Uddhar Dr. Shakuntala Misra Vishwavidyalaya, Lucknow	MBA	Graduate	
11	Khwaja Moinuddin Chishti Urdu, Arabi-Farsi University, Lucknow.	MBA	Minimum 50% marks (45% for SC/ST) at Graduation Level	



### 3.3. ELIGIBILITY TO APPEAR IN UPSEE-2017 FOR ADMISSION TO SECOND YEAR (LATERAL ENTRY) OF B.TECH. / B. PHARM./MCA

- (i) Direct Admission (Lateral Entry) in second year of B.Arch./BHMCT/BFAD/BFA/MBA courses is **not permissible**.
- (ii) Lateral entry in “B.Tech. for Engg. Diploma holders or B.Sc. Graduates with Mathematics as one of the subject at XII standard”/ “B.Pharm. for Diploma holders” in third semester (second year)/ “MCA for Graduates of BCA or B.Sc.-Information Technology/Computer Science in third semester (second year)”, is open **only in** the institutions affiliated to AKTU, Lucknow.
- (iii) Candidates who have passed ‘three years Engg. Diploma from an Institution located in U.P. with minimum 45% marks (40% for SC/ST) OR ‘whose parents (Father or mother) are domicile of Uttar Pradesh’ and he/she has passed three years Engg. Diploma with minimum 45% marks (40% for SC/ST) recognized by the Board of Technical Education, U.P., in any branch of Engineering (except Agriculture Engg., Pharmacy and Architecture), are eligible for admission to Second year in any branch of Engineering / Technology.
- (iv) Candidates who have passed ‘three years Diploma in Agriculture Engg. from an Institution located in U.P. with minimum 45% marks(40% for SC/ST)’ OR ‘whose parents (Father or mother) are domicile of U.P.’ and he/she has passed three years Diploma in Agriculture Engg. with minimum 45% marks(40% for SC/ST) recognized by the Board of Technical Education, U.P., are eligible for admission to Second year of **Agriculture Engg. Branch only**.
- (v) Candidates who have passed ‘three years B.Sc. degree and passed XII standard with mathematics as one of the subject’ from any recognized University; securing minimum 45% marks (40% for SC/ST) in aggregate, are also eligible for admission to second year in any branch of Engineering/ Technology.
- (vi) Candidates who have passed 2/3 years Diploma in Pharmacy from an Institution located in U.P. with minimum 45% marks (40% for SC/ST)’ OR ‘whose parents are domicile of U.P.’ and he/she has passed 2/3 years Diploma in Pharmacy with minimum 45% marks (40% for SC/ST) recognized by the Board of Technical Education, U.P., are eligible for admission to second year of **B.Pharm. only**.
- (vii) For Admission to **2nd year of MCA course (Lateral Entry)**, in any institution affiliated to AKTU, Lucknow, a candidate must have passed Bachelors degree course of minimum three years duration in BCA, B.Sc (IT/ Computer Science) from any recognized Indian University; or its equivalent, recognized by A.I.U. securing minimum 50% (45% for SC/ST) marks in aggregate. The candidate must have passed Mathematics at 10+2 level or Graduation level.

### 3.4. ELIGIBILITY FOR ADMISSION TO NRI QUOTA IN FIRST YEAR

NRI candidates who possess minimum requisite qualification may get direct admission on 5% seats of total intake in State Funded and Private Institutions of Uttar Pradesh in all courses except MBA/MCA/. However, applicants opting B.Arch. course under this category has to appear in Aptitude Test on the day of counseling to be notified later. The University shall fill the seats of NRI quota (5%) seats in the following manner:

- (i) NRI quota seats shall be filled from NRIs, who
  - (a) have passed the qualifying examination with Physics, Chemistry and Mathematics from an Institution situated outside India, which is considered equivalent to (10+2) examination by the Association of Indian Universities.

**OR**

have passed High School Certificate Education (GCE) examination with Physics, Chemistry and Higher Mathematics (A) from London / Cambridge / Sri Lanka.

(b) have appeared in SAT II examination with Mathematics level II C, Physics and Chemistry.

**The relative merit of such cases will be decided on their SAT-II score.**

- (ii) The vacant seats in NRI quota, if any, shall be filled up by such son / daughter / real brother /real sister of NRIs, who have passed intermediate or (10+2) or equivalent examination; with physics, chemistry and mathematics without grace in each of physics, chemistry and mathematics and securing minimum 50% marks (45% for SC/ST) in physics, chemistry and mathematics taken together, from an institution situated in India.
- (iii) The children of real brother / sisters and son / daughter of NRI may also be considered if the seats remain vacant after admitting the eligible NRI, their son/daughter and real brother/sister. The minimum requisite qualification shall be same as clause 3.4(ii).
- (iv) **The relative merit of candidates mentioned in (ii) and (iii) will be decided based on the total marks obtained by them in physics, chemistry and mathematics. Such candidates need not appear in the UPSEE-2017.**
- (v) All such candidates MUST submit an NRI certificate obtained from Indian Diplomatic Mission / Chancellery / High Commission under their seal at the time of counselling.
- (vi) The candidate MUST also submit sufficient documents clarifying without ambiguity their true relationship with the sponsoring NRI to the satisfaction of the University.
- (vii) The candidates will be informed separately about the date of counselling, and number of seats under this quota, and **they are required to be present in person on the day of counselling** with original documents / certificates, failing which they will loose their claim.
- (viii) **The latest orders issued by Govt. of U.P. upto the date of NRI counselling shall be applicable for admission in NRI quota.**
- (ix) The detailed information will be published through Newspapers and websites: <https://aktu.ac.in> or <http://www.upsee.nic.in> in the month of May 2017.

**3.5. ELIGIBILITY FOR ADMISSION TO FOREIGN NATIONALS (FN) / PERSONS OF INDIAN ORIGIN (PIO) / CHILDREN OF INDIAN WORKERS IN GULF COUNTRIES (CIWGC) IN FIRST YEAR**

FN/PIO/CIWGC seats shall be filled from Foreign Nationals / PIO's/CIWGC who:

- (i) have passed the qualifying examination with Physics, Chemistry and Mathematics, which is considered equivalent to (10+2) examination by the Association of Indian Universities.
- (ii) should submit a copy of passport or equivalent evidence support of their Nationality.

**The relative merit of such cases will be decided based on their qualifying examination.**

**The latest orders issued by Govt. of U.P. upto the date of admission will be applicable in FN/PIO/CIWGC.**

**3.6. ELIGIBILITY FOR DIRECT ADMISSION TO FIRST YEAR IN PRIVATE INSTITUTIONS AT INSTITUTE LEVEL UNDER MANAGEMENT QUOTA (FOR NRI CANDIDATES) / VACANT SEATS AFTER COUNSELLING OF UPSEE-2017**

(i) The 15% seats<sup>4</sup> in private institutions shall be filled by the Management/ NRI quota at institute level under management quota as per eligibility criteria in clause 3.4. The vacant seats in NRI/Management quota or vacant seats after counselling of UPSEE-2017 shall be filled strictly in following preference order, within fifteen days of the last date of counselling:

(1) Firstly, by the qualified candidates of JEE (Main)-2017 fulfilling the eligibility as per clause 3.1 for B.Tech. / B.Arch.. Their relative merit will be decided on their rank in respective entrance examinations.

(2) Secondly, by the qualified candidates of UPSEE-2017, who fulfill the eligibility as per clause 3.1. Their relative merit will be decided on their rank in UPSEE-2017.

(3) Thirdly, by the **merit of candidates in qualifying examination** with the following conditions:

(a) For admission to first year of B. Tech. / B. Pharm., candidate must have passed intermediate examination of U. P. Board or 10+2 level examination or its equivalent from any recognized Board / University; securing minimum 50% (45% for SC/ST) marks in required subject combination (two compulsory & one optional) taken together. The candidate is essentially required to pass without any grace marks (as per respective Board/University) in each subject of the subject group indicated in para 3.1 (i). The relative merit shall be decided based on total marks in subject combination (clause 3.1(i)) of qualifying examination.

(b) For admission to first year of BHMCT/BFAD/BFA/, candidate must have passed intermediate examination of U. P. Board or 10+2 level examination or its equivalent from any recognized Board / University; securing minimum 50% (45% for SC/ST) marks in aggregate without any grace marks. The relative merit shall be decided based on aggregate of qualifying examination.

(c) For admission to first year of MBA in any institution affiliated to AKTU, Lucknow , a candidate must have passed minimum three years Bachelor degree course from any recognized University; securing minimum 50% (45% for SC/ST) marks in aggregate without any grace marks. The relative merit shall be decided based on aggregate of qualifying examination.

(d) For admission to first year of MCA in any institution affiliated to AKTU, Lucknow, a candidate must have passed minimum three years Bachelor degree course from any recognized University; securing minimum 50% (45% for SC/ST) marks in aggregate without any grace marks. Candidate must have passed mathematics at 10+2 level. The relative merit shall be decided based on aggregate of qualifying examination.

**For Admission on the basis of Point (3) above, the candidate MUST HAVE qualified the relevant entrance test from any state of India<sup>5</sup>.**

(ii) Institute shall ensure filling of these vacant seats inviting the applications through advertisement in atleast two leading newspapers of the State level and Institute website, giving atleast one-week time to submit the applications. Admissions shall be strictly based on clause 3.6(i) mentioned

<sup>4</sup> It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling.

<sup>5</sup> As per State Govt. order no.01/2016/01/2016/5025/सोलह-1-2016-14(54)/2012, dated 02 January 2017

above. However, applicants opting B.Arch. course under this category has to appear in Aptitude Test on the day of counseling to be notified later.

IN ANY CASE **NO PRIVATE INSTITUTION IS ALLOWED TO GIVE ADMISSION IN MORE THAN 25% SEATS TO STUDENTS OF STATE OTHER THAN UTTAR PRADESH.**

### **3.7. ELIGIBILITY FOR DIRECT ADMISSION (LATERAL ENTRY) TO SECOND YEAR IN PRIVATE INSTITUTIONS UNDER VACANT SEATS AFTER COUNSELLING OF UPSEE-2017<sup>6</sup>**

The vacant seats in B. Tech./B.Pharm./MCA course after UPSEE-2017 counselling for lateral entry (second year) shall be filled within 15 days of the last date of counseling at institute level, firstly by the qualified candidates of UPSEE-2017, who fulfill the eligibility as per clause 3.3. Their relative merit will be decided on their rank in UPSEE-2017.

There after, the vacant seats, if any, will be filled on merit by such candidates who have passed the qualifying examination securing minimum 50% (45% for SC/ST) marks in aggregate without any grace marks.

Institute shall ensure the filling of these seats by inviting the applications through advertisement in atleast two leading newspapers of state and institute website, and give atleast one week time to submit the applications.

## **4. EXAMINATION DETAILS**

UPSEE-2017 will be conducted for eleven papers with objective multiple type questions except Drawing Aptitude test (Part B of paper 4). The candidates are required to opt papers and subjects for appearing in the entrance examination as mentioned in clause 4.3, subject to their eligibility as per clause 3. Paper 1, Paper 2, Paper 3 and Paper 4 shall be **OMR based Test only**. Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10 and Paper 11 will be **Computer Based Test only**.

### **4.1. SCORING AND NEGATIVE MARKING**

- (i) All objective type questions are required to be answered on a specially designed OMR answer sheet against the respective question number. Candidate is supposed to select only one choice for correct answer in each question.
- (ii) Every objective multiple type question would carry four marks for each correct answer. More than one answers indicated against the question will be deemed as incorrect answer and no marks are awarded for the incorrect answer.
- (iii) There will be **no negative marking**. However, a record of incorrect answers given by a candidate will be kept separately.
- (iv) Answers in OMR based examination (Paper 1, Paper 2, paper 3 and Paper 4) are to be marked using ballpoint pen (Black / Blue) only. For the purpose of evaluation in these papers, the details filled in by the candidate in the OMR answer sheet will be treated as final.

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<sup>6</sup> It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling.

#### 4.2. QUESTION PAPERS AND SUBJECTS IN THE ENTRANCE EXAMINATION

Paper	Subjects	Number of Questions	Marks
Paper 1	Physics, Chemistry and Mathematics	50 objective type questions each of Physics, Chemistry and Mathematics with a total of 150 questions.	600
Paper 2	Physics, Chemistry and Biology	50 objective type questions each of Physics, Chemistry and Biology with a total of 150 questions.	600
Paper 3	AG-I, AG-II and AG-III	50 objective type questions each of AG-I, AG-II and AG-III with a total of 150 questions.	600
Paper 4	Aptitude Test for Architecture & Design Part-A: Mathematics and Aesthetic Sensitivity Part-B: Drawing Aptitude	50 objective type questions each of Mathematics and Aesthetic Sensitivity with a total of 100 questions and Two questions to test drawing aptitude.	500
Paper 5	Aptitude Test for General Awareness (BHMCT/BFAD/BFA)	75 objective type questions	300
Paper 6	Aptitude Test for Diploma Holders in Engineering (Lateral Entry)	75 objective type questions	300
Paper 7	Aptitude Test for Diploma Holders in Pharmacy (Lateral Entry)	75 objective type questions	300
Paper 8	Aptitude Test for B.Sc. Graduates in Engineering (Lateral Entry)	75 objective type questions	300
Paper 9	Aptitude Test for MBA	100 objective type questions	400
Paper 10	Aptitude Test for MCA	100 objective type questions	400
Paper 11	Aptitude Test for 2 <sup>nd</sup> Year MCA (Lateral Entry)	100 objective type questions	400

#### 4.3. QUESTION PAPERS REQUIRED FOR DIFFERENT COURSES

COURSE	PAPERS
B. Tech. / B. Tech. (Agriculture Engineering)	Paper 1
B. Tech. (Bio Technology)	Paper 1 or Paper 2
B. Tech. (Agriculture Engineering) only <sup>7</sup>	Paper 3
B. Pharm.	Paper 1 or Paper 2
B. Arch. <sup>8</sup>	Paper 4
BHMCT / BFAD/BFA	Paper 5

<sup>7</sup> See Clause 3.1 (v) also.

<sup>8</sup> Diploma holders of Architecture are also required to appear in paper 4. See clause 3.1(iv) also.

<b>Lateral Entry:</b> B.Tech. 2 <sup>nd</sup> Year (for Engg. Diploma Holders) B.Pharm 2 <sup>nd</sup> Year (for Pharmacy Diploma Holders) B.Tech. 2 <sup>nd</sup> Year (for B. Sc. Graduates)	Paper 6 Paper 7 Paper 8
MBA	Paper 9
MCA	Paper 10
<b>Lateral Entry: 2<sup>nd</sup> Year MCA</b>	Paper 11

## 5. SCHEDULE OF EXAMINATION

Date of Examination	Paper Code	Subjects	Timing (Total Time Period)
16 <sup>th</sup> April, 2017 (Sunday)	Paper 1	Physics, Chemistry and Mathematics	10:00 AM to 1:00 PM (3 Hours)
	Paper 2	Physics, Chemistry and Biology	
	Paper 3	AG-I, AG-II and AG-III	
	Paper 4	Aptitude Test for Architecture	2.30 PM to 5:00 PM (2 Hours 30 Minutes)
22 <sup>nd</sup> April, 2017 (Saturday)	Paper 5	Aptitude test for General Awareness (BHMCT/BFAD/BFA)	10:00 AM to 11:30 AM (1 Hour 30 Minutes)
	Paper 6	Aptitude Test for Diploma Holders in Engg.	2:30 PM to 4:00 PM (1 Hour 30 Minutes)
	Paper 7	Aptitude Test for Diploma Holders in Pharmacy	
	Paper 8	Aptitude Test for B.Sc. Graduates	
23 <sup>th</sup> April, 2017 (Sunday)	Paper 09	Aptitude Test for MBA	9:00 AM – 11:00 AM (2 Hours )
	Paper 10	Aptitude Test for MCA	1:00 PM – 3:00 PM (2 Hours )
	Paper 11	Aptitude Test for 2 <sup>nd</sup> Year MCA (Lateral Entry)	4:00 PM –6:00 PM (2 Hours )

## 6. SYLLABUS

The Syllabus for each question paper for the UPSEE-2017 is given at Appendix–A.

## 7. EVALUATION AND DECLARATION OF RESULT

- 7.1. The results of UPSEE-2017 alongwith answer keys will be declared on or before 30<sup>th</sup> May, 2017.
- 7.2. Based on performance of the candidates in UPSEE-2017, separate merit lists will be prepared for each course. Merit position, score-card with total marks and marks obtained in each subject shall be available on website **after the declaration of the result.**
- 7.3. In case two or more candidates secure equal marks, inter-se-merit of such candidates shall be determined as follows:
- (a) **Firstly**, by the number of incorrect answers given. A candidate giving lesser number of incorrect answers will be placed at higher merit.

(b) **Secondly**,

B. Tech.	: By the marks obtained in Mathematics, Physics, Chemistry sections of Paper 1 respectively and then by age.*
B. Pharm.	: By marks obtained in Biology, Chemistry, Physics sections of Paper 2 respectively and then by age.*
B. Arch. /	: By marks obtained in Drawing Aptitude, Mathematics & Aesthetics sensitivity section of Paper 4 respectively and then by age.*
B.Tech.(Ag.Engg.)	: By marks obtained in AG-I, AG-II,AG-III section of Paper 3 respectively and then by age.*
B.Tech. (Bio Tech.)	: Same as applicable in B.Tech./ B.Pharm
BHMCT/BFAD/BFA/ MBA/MCA/Lateral entry	: *By age only

\* Candidate with higher age will be placed at higher merit.

- 7.4. The cut-off percentage of marks in UPSEE-2017 for the merit of successful candidates is 25% (20% for SC/ST) as per UP State Govt order.
- 7.5. Successful candidates shall be called for counselling according to their merit in UPSEE-2017 by giving intimation through Newspapers and website. However, the allotment of seat shall depend on the availability of the seats on the day of counseling. The successful candidates are advised to keep a close watch on websites <https://aktu.ac.in> or <http://www.upsee.nic.in> and Newspapers for counselling dates. The counselling schedule can be downloaded from the website.

## 8. CATEGORY DEFINITIONS

- 8.1. Candidates, who have passed the qualifying examination from an institution located in the State of Uttar Pradesh and who do not claim for any reserved category are eligible for admission to all the courses at all the institutions against available General (OPEN) seats.

[Code: **UPGE**]

*No category certificate required from such candidates.*

- 8.2. Candidates, who have passed the qualifying examination from an institution located in State of U.P.; and are domicile of U.P.; and belong to Schedule Caste (SC) of U.P. / Schedule Tribe (ST) of U.P. / Other Backward Classes of U.P. are eligible for admission against available reserved seats of their category. List of Schedule caste, Schedule Tribe and Other Backward Classes are available on Appendix-F<sup>9</sup>.

[Respective Codes: **UPSC / UPST / UPBC**]

*Certificate No. 1 or 2, as applicable, is required.*

- 8.3. Candidates, who have passed the qualifying examination from an institution located outside U.P.; and whose parents are domicile of U.P.; and who have not claimed for any reserved category, are also eligible for admission to courses offered at all institutions under General (OPEN) category. Such candidate has to produce the domicile certificate of his/her parents (Father OR Mother only) at the time of counselling.

[Code: **UPGD**]

*Certificate No. 3 required from such candidates*

- 8.4. Candidates, who have passed the qualifying examination from an institution located outside U.P.; and whose parents are domicile of U.P.; and who belong to Schedule Caste of U.P. / Schedule Tribe of U.P. / Other Backward classes of U.P. are also eligible for admission against reserved seats of their category.

[Respective Codes: **GDSC/GDST/GDBC**]

*Such candidate has to produce the domicile certificate of his/her parents (**Father OR Mother only**) (Certificate No. 3) and Category Certificate (Certificate No. 1 or 2 as applicable) at the time of counselling.*

- 8.5. The domicile requirement to son/daughter of following is **relaxed** and admission is permitted to such:

- (i) defence personnel settled in U.P. on the date of Entrance Examination after retirement / being disabled in action or Defence personnel killed in action and the dependents settled in U.P. on the date of Entrance Examination. (*Certificate no. 5 is required.*)
- (ii) defence personnel who are not domicile of U.P., but are posted in U.P. on the date of Entrance Examination. (*Certificate no. 5 is required.*)
- (iii) employee of **All India Services** belonging to U. P. cadre. (*Certificate no. 11 is required*)

[Code: **GDDA**]

***GDDA candidates will be considered as UPGD category for all other benefits.***

- 8.6. Candidates, who have passed the qualifying examination from an institution located outside U.P. and whose parents are NOT domicile of U.P.

[Code: **OSGE**]

*No category certificate required from such candidates.*

***Such candidates, alongwith candidates of other categories, shall be considered only against 10 percent of the sanctioned intake of first year in Technology/ Architecture courses in Private Institutions affiliated to AKTU.***

- 8.7. Proformas of various certificates are available in Appendix – D.

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<sup>9</sup> It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling.



## 9. RESERVATION OF SEATS

### 9.1. Vertical Reservation (Category):

Category	Percentage of Reservation
(a) Scheduled Caste of U.P.	21%
(b) Scheduled Tribe of U.P.	02%
(c) Other Backward Classes of U.P.	27%

### 9.2. Horizontal Reservation (Sub-category available in each category):

Sub-Category	Code	Maximum Percentage of Total Seats
(a) Dependents of Freedom Fighters from U.P.	UPFF	02%
(b) Sons / Daughters of defence personnel of U.P. either retired (superannuated) or killed / disabled in action or defence personnel posted in U.P./defence personnel domicile of U.P. & posted outside U.P.	UPAF	05%
(c) Handicapped / Disabled of U.P.	UPHC	03%
(d) Girls of U.P.	UPGL	20%

- 9.3. The candidates can be given **only one** type of horizontal reservation out of UPFF/UPAF/UPHC. **However, the girl candidates can also claim for any one of UPFF/UPAF/UPHC alongwith UPGL.**
- 9.4. Subsequent request for the change of category / sub-category filled in Application Form **shall not** be entertained under any circumstances.
- 9.5. Category / sub-category must be supported by the relevant certificates as per proforma given in the Appendix-D to be produced at the time of counselling, failing which the candidates shall be treated in General Category.
- 9.6. The advantage of horizontal reservation in Armed force sub-category is available to sons/daughters of 'defence personnel of U.P. either retired (Superannuated) or killed / disabled in action and the dependents settled in U.P.' , and 'the defence personnel posted in U.P.' on the date of Entrance Examination.
- 9.7. Certificate no. 4, 5 and 6 are required at the time of counseling, for claiming reservations in subcategories mentioned at clause 9.2 (a), (b) and (c) respectively.
- 9.8. **The seats available under Fee Waiver scheme will be notified in respective category at the time of counselling.**
- 9.9. **Please note that benefits of UPGL subcategory will automatically be given to all the Female candidates.**

## 10. WEIGHTAGE TO CANDIDATES FROM RURAL AREAS OF UTTAR PRADESH

- 10.1. A weightage of 3% of the total marks obtained at UPSEE-2017 will be given to such UPGE candidates for B.Tech./B.Pharm/B.Arch./BHMCT/BFAD/BFA/ courses, who have passed the qualifying examination from an institution situated in rural area of Uttar Pradesh.
- 10.2. For this purpose, the institutions should be situated in the jurisdiction of Gram Panchayat but the area should not be industrially developed. Such candidates must produce Certificate Number 7 at the time of counselling.
- 10.3. Rural weightage is not applicable for a candidate opting any other reservation and for a candidate opting direct admission to second year.
- 10.4. Rural weightage is not applicable for candidates under UPGD category defined in clause 8.3.

## 11. MEDICAL STANDARDS

- 11.1. Candidates will have to submit a certificate of Medical fitness/ handicap on Certificate number 9 at the time of counselling.
- 11.2. The medical standards prescribed are given below:

### Medical Standards Applicable:

Height	Candidate should be Physically fit to pursue his/her studies in opted course.
Weight	
Chest measurement	
Heart and lungs	No abnormality
Hernia, Hydrocele, Piles etc.	Presence of any of these is to be corrected before joining.
Vision	Normal. If defective, it must be got corrected to 6/9 in the better eye and 6/12 in the worse one. Eyes should be free from congenital or any other disease.
Hearing	Normal. If defective, it must be got corrected before joining.
Physically Handicapped / Disabled	The candidate having any one type of physical handicap/ disability given below.

### Physically Handicapped / Disabled:

<b>Type – I</b>	Minimum 40% permanent Visual impairment
<b>Type – II</b>	Minimum 40% permanent Locomotors disability
<b>Type – III</b>	Minimum 40% permanent speech and Hearing impairment

## 12. CITY OF EXAMINATION

The UPSEE-2017 will be held at various cities as given in the following tables. The candidates are advised to give three choices of examination cities.

- (i) **Paper 1, Paper 2, Paper 3 and Paper 4** are **OMR based Tests** and shall be held in various cities given in the **Examination City Table-I**
- (ii) **Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10, and Paper 11** are **Computer based Tests** and shall be held in various cities given in the **Examination City Table-II**.

**Examination City Table-I  
(OMR Based Test)  
[For Paper 1, Paper 2, Paper 3 and Paper 4]**

<p><b>Cities in State of U.P.</b></p> <ol style="list-style-type: none"> <li>1. Agra</li> <li>2. Firozabad</li> <li>3. Mathura</li> <li>4. Aligarh</li> <li>5. Allahabad</li> <li>6. Azamgarh</li> <li>7. Ballia</li> <li>8. Mau</li> <li>9. Bareilly</li> <li>10. Shahjahanpur</li> <li>11. Basti</li> <li>12. Banda</li> <li>13. Gonda</li> <li>14. Ambedkar Nagar</li> <li>15. Barabanki</li> <li>16. Faizabad</li> </ol>	<ol style="list-style-type: none"> <li>17. Sultanpur</li> <li>18. Deoria</li> <li>19. Gorakhpur</li> <li>20. Kushinagar</li> <li>21. Jalaun (Orai)</li> <li>22. Jhansi</li> <li>23. Etawah</li> <li>24. Kanpur Nagar</li> <li>25. Kanpur Dehat</li> <li>26. Lakhimpur Kheri</li> <li>27. Lucknow</li> <li>28. Raebareli</li> <li>29. Sitapur</li> <li>30. Bulandshahr</li> <li>31. Gautam Buddha Nagar (Noida/Greater Noida)</li> <li>32. Ghaziabad</li> <li>33. Meerut</li> </ol>	<ol style="list-style-type: none"> <li>34. Mirzapur</li> <li>35. Bijnor</li> <li>36. Moradabad</li> <li>37. Muzaffarnagar</li> <li>38. Saharanpur</li> <li>39. Ghazipur</li> <li>40. Jaunpur</li> <li>41. Varanasi</li> </ol> <p><b>Cities in Other States</b></p> <ol style="list-style-type: none"> <li>42. Bhopal</li> <li>43. Dehradun</li> <li>44. Delhi</li> <li>45. Patna</li> <li>46. Ranchi</li> <li>47. Jaipur</li> <li>48. Kolkata</li> <li>49. Mumbai</li> </ol>
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**Examination City Table-II  
(Computer Based Test)  
[For Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10 and Paper 11]**

<ol style="list-style-type: none"> <li>1. Agra</li> <li>2. Aligarh</li> <li>3. Allahabad</li> <li>4. Ambedkar nagar</li> <li>5. Bareilly</li> <li>6. Bijnaur</li> </ol>	<ol style="list-style-type: none"> <li>7. Ghaziabad</li> <li>8. Gorakhpur</li> <li>9. Gautam Buddha Nagar (Noida / Greater Noida)</li> <li>10. Jhansi</li> <li>11. Kanpur</li> </ol>	<ol style="list-style-type: none"> <li>12. Lucknow</li> <li>13. Mathura</li> <li>14. Meerut</li> <li>15. Moradabad</li> <li>16. Muzaffarnagar</li> <li>17. Varanasi</li> </ol>
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- (iii) **Candidates are advised to be VERY CAREFUL while giving their options for city of examination centre.** Candidates are advised to choose cities of examination on the basis of the paper he/she has opted from the respective tables i.e **Examination City Table-I** and/or **Examination City Table-II**.
- (iv) In case, candidate has opted papers in such a manner that some of these papers are the OMR based Tests (**Paper 1, Paper 2, Paper 3 and Paper 4**) and some of these papers are Computer based Tests (**Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10, and Paper 11**), the choices for city of examination must be chosen from the **Examination City Table-II only**.

For example,

- (a) If a candidate opts for **Paper 1 only**, he/she should refer to the **Examination City Table-I**.
  - (b) If a candidate opts for **Paper 5 only**, he/she should refer to the **Examination City Table-II**.
  - (c) **If a candidate opts for two papers Paper 1 and Paper 5**, he/she should refer to the **Examination City Table-II**.
- (v) If any candidate chooses cities of examination where the examination for the paper opted is not being conducted, he/she shall be allotted an examination city from the respective list and same shall be binding upon the candidate.
  - (vi) Certain examination cities may be cancelled if sufficient number of candidates does not opt for that city. Request for change of city of examination shall not be entertained under any circumstances.
  - (vii) List of Cities of Examination for OMR based Test as well as Computer based Test is given in Appendix-E also.

### 13. ADMIT CARD

- 13.1. Admit card will be available online on the website <http://www.upsee.nic.in> to every candidate. **Downloaded admit card shall be treated as valid admit card.** The candidates are advised to check the details of admit cards with regards to their category, sub-category, gender, rural weightage, Name, Father's Name etc. as mentioned on the Admit Card.
- 13.2. No candidate will be allowed to appear in the examination without admit card.
- 13.3. If any candidate is unable to download his/her admit card, he/she should contact the helpline as indicated on the website <http://www.upsee.nic.in> or send an email to the mail address [helpdeskupsee17@gmail.com](mailto:helpdeskupsee17@gmail.com) latest by **12<sup>th</sup> April, 2017**.
- 13.4. A plea that a candidate failed to receive the information for appearing at the Examination will not be accepted as a ground for the refund of fee or any other redressal. UPSEE-2017 may withdraw the permission to appear in UPSEE-2017 granted by mistake to a candidate who is not eligible to appear at the UPSEE-2017 even if an Admit Card has been issued and produced by the candidate before the concerned Centre Superintendent at the Examination Centre.
- 13.5. In case of any reported correction, the final corrected admit card will have to be downloaded from website <http://www.upsee.nic.in> or <https://aktu.ac.in> before the examination date.
- 13.6. **Since successful candidates are required to produce the Admit Card at the time of counselling and admission, it should be carefully preserved until the admission process is completed.**

### 14. MEDIUM AND MODE OF EXAMINATION & EVALUATION

All question papers (except part B of paper-4) will carry objective multiple-choice questions. Answers of Paper 1, paper 2, Paper 3 and paper 4 will be evaluated by OMR methodology. All question papers for undergraduate admissions (except paper-4) will be in Hindi and English both, but in case of any ambiguity, the English version shall be considered final. The candidates appearing in the UPSEE-2017 have the option to answer part B of Paper-4 either in English or in Hindi. In all cases, the Standard English numerals must be used.

### 15. COUNSELLING

- 15.1. Successful candidates will be required to participate in the counseling process. The information about Counseling procedure, Counselling Schedule and all relevant information regarding counselling etc., will be notified on the website: <https://aktu.ac.in> or <http://www.upsee.nic.in>.

## 16. EXAMINATION FEE

The examination fee for the On-Line Application is as follows:

For Male / Transgender Candidates of General/ OBC Category	For SC/ST Category and Female Candidates of All the category
Rs. 1200/-	Rs. 600/-

The examination fee has to be submitted On-Line through Credit/debit Card/ Net Banking while submitting the On-Line Application. Please note that the bank may additionally charge service charges plus applicable taxes while making the payment through Credit/Debit card/ Net banking.

## 17. TUITION FEES

- 17.1. The tuition fees in Govt. / Govt. aided colleges / institutes shall be as per latest orders of Government of U.P applicable in the respective colleges/institutes. However, few courses are under self finance scheme and the details of the fee for such courses can be obtained by respective colleges/institutions. However, information about amount of the hostel and other fee can be obtained from the institute.
- 17.2. The fees in Private Institutions / Govt. aided Institutions running self finance courses will be as per the latest notification/orders issued by Govt. of Uttar Pradesh/ Fee Fixation Committee and same is available on website <http://www.afrcup.in>.

## 18. LAST DATE OF SUBMISSION OF ON-LINE APPLICATION FORM

Application Form for UPSEE-2017 can be submitted On-Line only through website <http://www.upsee.nic.in> from **18<sup>th</sup> January 2017, 11:00 AM**. The Last Date of filling and submitting the On-Line Application Form is **28<sup>th</sup> February 2017, 05:00 PM**.

## HOW TO FILL ON-LINE APPLICATION FORM (UG & PG COURSES)

The On-Line application to UPSEE-2017 can be filled and submitted as per clause 18, clause 19, clause 20 and clause 21 of the Information Brochure as given below.

### 19. AVAILABILITY OF INFORMATION BROCHURE

The Information Brochure will be available ON LINE on the websites <http://www.upsee.nic.in> only. The same can be downloaded and/or printed for reference by the candidates. The application form can be filled in On-Line through Internet from any place of convenience.

### 20. HOW TO FILL AND SUBMIT THE ON-LINE APPLICATION FORM

#### 20.1. APPLICATION PROCEDURE

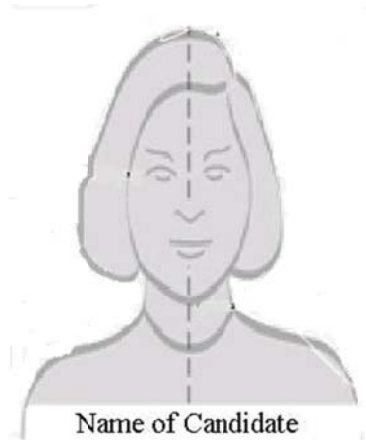
The online application can be made from 11:00 AM, 18<sup>th</sup> Jan 2017 till 05:00 PM of 28<sup>th</sup> February 2017 through the website <http://www.upsee.nic.in>. The On-Line Application Form is self explanatory. For assistance, in case of any difficulty in filling up ON-LINE application form, candidate may contact at Toll Free Number 1800-180-0161 or send an email at [helpdeskupsee17@gmail.com](mailto:helpdeskupsee17@gmail.com) with subject line "Seeking Help".

#### 20.2. The On-Line application form submission consists of following three simple steps.

- (i) Registration (Filling up of Personal and other Details)
- (ii) Uploading of Scanned Images of Photograph, Signature and Thumb Impression
- (iii) Payment of Examination Fee and Printing of the "Confirmation Page"

#### 20.3. Before, a candidate starts filling the On-Line application Form, he/she must be ready with the following:

- (i) A personal mobile phone number and/or a personal E-Mail id.
- (ii) **Photograph:** A clear scanned image of his/her recent color passport size photograph (**3.5cm X 4.5cm**) in **JPEG** Format with a maximum size of **100 KB**. The photograph must be front facing to the camera in a manner that full face shows. The background should be either white or off-white and uncluttered. The photograph should be colour with name of the candidate printed on it as shown in the sketch below. It should be without cap or goggles. Spectacles are allowed. Candidates with unclear photograph are liable to be rejected. Candidates may keep 6-8 identical photographs in reserve for use at the time of entrance examination.



- (iii) A clear scanned image of his/her signature (3.5cm X 1.5cm) in JPEG Format with a maximum size of **30 KB**.
  - (iv) A clear scanned image of his/her left thumb impression (3.5cm X 1.5cm) in JPEG Format with a maximum size of **30 KB**
- 20.4.** Once ready with this, he/she may proceed to following steps. Visit the website <http://www.upsee.nic.in> (Please use the browser Internet Explorer 7 or above) and choose the appropriate link as follows for filling up the application form.
- (v) Follow the link “**UP State Entrance Examination for UG (UPSEE-2017)**” for filling the application form for admission to Under Graduate programmes: B.Tech./ B.Pharm/BHMCT/BFAD/BFA/ Direct admission to 2<sup>nd</sup> year of B.Tech./ B.Pharm and
  - (vi) Follow the link “**UP State Entrance Examination for PG (UPSEE-2017)**” for filling the application form for admission to PG programmes : MBA/MCA/(Dual Degree) and Direct admission to 2<sup>nd</sup> year of MCA.

You may now start filling the application by clicking the link “**Apply**” at the bottom of the page. A new screen containing the Instructions and Procedure for online submission of Application Form appears. Read this page carefully and thereafter follow the link “**Click here to proceed**” at the bottom of the page which takes you to the ON-Line Application Form. Now start filling the Application Form.

### **Step1: Registration and Filling up of Personal, Educational and other Details**

- (1) The On-Line Application Form is self explanatory. You are required to fill up all the personal details such as Name, Father’s Name, Mother’s Name, Domicile of your parent, state from where you have passed or appearing in the qualifying examination, Communication details

such as address, mobile phone number, email etc., Course Apply details such as qualifying examination detail, subjects in the qualifying examination etc. You are also required to choose paper as per eligibility, choice of city for examination centre etc during the filling of the online application form.

- (2) After filling these details, you are required to choose “**Password**” and security question. You are required to remember this “**Password**” till the examination is over. **Please note that this Password alongwith Application Number generated by the system will be required in future in order to login into the system again.** You are advised not to share this password with anyone.
- (3) For making changes in the Application Form, you may click the “**EDIT**” Button at the bottom as many times as you want.
- (4) **After completion of the Application Form, you may submit the application form by clicking “SUBMIT” Button. Once you click “SUBMIT” Button, a Review page showing all the crucial information filled by you appears on the screen. Now, check all the information on the Review Page. If you want to change/ modify some of the information provided in the Application Form, click the “EDIT APPLICATION FORM DATA” Button and modify the entries in Application Form as desired and “SUBMIT”. You can repeat this process as many times as you want.**
- (5) **Once you are satisfied with all the entries and want to submit the Application Form, click the “FINAL SUBMIT” Button. Please note that once you submit the application form by clicking the “FINAL SUBMIT” Button, the On-Line Application Form is finally submitted and you will not be able to modify/change/edit the entries of your Application Form. Therefore, you are advised to click “FINAL SUBMIT” Button only when you are completely satisfied with entries on the application form, part of which has been shown on the “Review Page”.**
- (6) Before “**FINAL SUBMIT**” Button, you will notice a Declaration at the bottom. Please read the declaration and accept the declaration by ticking the check box named “I agree” . Unless you accept the declaration by ticking the given check box, you will not be able to submit the form.
- (7) After Final Submission of the Application Form, Step 1 is completed and an **Application Number** is generated by the system. **You are required to note this APPLICATION NUMBER for all future correspondences and in order to be able to Login again.**
- (8) **Now you may proceed with Step 2. If you wish to complete the step 2 at later time, please Logout. Thereafter, Login again with your APPLICATION NUMBER and PASSWORD at a convenient time and complete the Step 2.**



## **Step 2: Uploading of Scanned Images of Photograph, Signature and Left Hand Thumb Impression**

- (1) Once Step 1 is complete, then you may proceed now with Step 2 for uploading of the scanned images.
  - (i) Upload a clear scanned image of his/her recent passport size color photograph (3.5cm X 4.5cm) in JPEG Format with a maximum size of 100 KB. The photograph must be front facing to the camera in a manner that full face shows. The background should be either white or off-white and uncluttered.
  - (ii) Upload a clear scanned image of his/her signature (3.5cm X 1.5cm) in JPEG Format with a maximum size of 30 KB.
  - (iii) Upload a clear scanned image of his/her left thumb impression (3.5cm X 1.5cm) in JPEG Format with a maximum size of 30 KB
  
- (2) **Please check/review that images that have been uploaded are clear and correct before pressing the “SAVE” Button. Once “SAVE” Button is pressed, you will not be able to change the images. Therefore, before pressing the “SAVE” Button, make it doubly sure that uploaded images are correct and clear. If images that have been uploaded are not proper or appears blurred, then you must upload a proper and clear image(s) again. Please note that an Application Form with blurred photograph, thumb impression or signature is liable to be rejected.**
  
- (3) Once you are satisfied with uploaded images, then you may press the “SAVE” Button. Once “SAVE” Button is pressed, images are finally uploaded and now you will not be able to change the image(s).
  
- (4) You may now proceed with Step 3 for making payment of examination fee. **If you wish to complete the Step 3 at a later time, please logout. Thereafter, Login again with your APPLICATION NUMBER and PASSWORD at a convenient time and complete the step 3.**

## **Step 3: Payment of Examination Fee through Credit Card / Debit Card/ Netbanking and Downloading of “Confirmation Page”**

After completion of Step 1 and Step 2, applicant may proceed with Step 3 for payment of Examination Fee. The examination fee can be paid On-Line ONLY through **Credit Card / Debit Card / Net Banking.**

- (1) For making payment through Credit Card / Debit Card / Netbanking, choose appropriate

“**Mode of Payment**” and click the link “**Proceed for Payment**” to make the payment of examination fee. All VISA/Master cards are accepted. You should be ready with your Credit Card/ Debit Card/Net Banking details. Please note that, in addition to the examination fee, bank may charge extra amount as service charge and/or taxes as applicable.

- (2) After making payment, a payment **Transaction Number** is generated. **You are required to note this Transaction Number for future correspondences.**
  
- (3) **If the payment is successful, a link appears on the screen/page named “Download Confirmation Page”. You must download this “Confirmation Page” by clicking this link and save the “Confirmation Page” for record. You are also advised to take two copies of print-outs of this “Confirmation page” and keep them preserved for record and future communication. Now your application form is complete. You may log out. Please note that this “Confirmation Page” is not required to be sent to the University / UPSEE-2017 office. Your “Application Number” is also printed on this “Confirmation Page”.**
  
- (4) Please note that you can view your Application Form later also. For this, you are required to Login again at the website <http://www.upsee.nic.in> using **your Application Number and Password**. Although, you will not be able to edit/modify your application Form.
  
- (5) **Failed Transaction:** In case, your transaction is failed for some reason, whatsoever, then you will not be able to download the “Confirmation Page”. If you are unable to download the “Confirmation page” and your account is debited, it means that transaction could not be updated at NIC server of UPSEE-2017. In case, you do not succeed to download the “Confirmation page”, it indicates that your transaction has failed and you are required to make the Payment of Examination Fee again and download the confirmation page as explained in Point No (13) to Point No (16) above.
  
- (6) However, the amount of Examination Fee against the failed transactions, which could not be updated on NIC Server of UPSEE-2017, shall be automatically refunded by the Bank after Reconciliation and shall be credited to the account from which the payment was made using your debit card/ credit card / Net Banking. In case, amount debited against the failed transaction is not refunded to your account within FIVE DAYS, you may send an email as follows.

**To** : [helpdeskupsee17@gmail.com](mailto:helpdeskupsee17@gmail.com)

**Subject:** Failed Transaction

Please do not forget to mention the following in your mail.

- A) **Your Application Number,**
- B) **Transaction Number, and**
- C) **Date of Birth**

- (7) Please do not send the hard copy / soft copy / print-out of the Confirmation page or any other document to the University at this stage.
- (8) In case of any difficulty in filling up the On-Line Application Form, you may contact UPSEE -2017 Helpdesk at **Toll Free Number: 1800-180-0161** between 10:00 AM to 05:00 PM or send an email to [helpdeskupsee17@gmail.com](mailto:helpdeskupsee17@gmail.com) with *subject line : Seeking Help*.

## 21. KEY ELEMENTS OF ON-LINE APPLICATION FORM

Read carefully the entire Information Brochure before filling the On-Line Application Form. The On-Line Application Form is self explanatory. Following are the key elements of the Application Form which will appear in the application (not necessarily in the order).

- (1) **Name of the Candidate:** Write your FULL NAME (in English Capital Letters) as recorded in your High School or equivalent examination certificate
- (2) **Father's Name:** Write FULL NAME (in English Capital Letters).
- (3) **Mother's Name:** Write FULL NAME (in English Capital Letters).
- (4) **Date of Birth:** Fill your date of birth exactly as recorded in your High School or equivalent examination certificate in dd/mm/yyyy format.
- (5) **Nationality:** Choose "INDIAN" if your Nationality is Indian otherwise choose "OTHERS"
- (6) **Gender:** Choose Male or Female or Third Gender (Transgender) whichever is applicable.
- (7) **Parent's Domicile:** Choose "Uttar Pradesh" if at least one of your parents (Father/Mother) is domicile of U.P., Choose "Other than Uttar Pradesh" if none of your parents is domicile of U.P. and choose "GDDA" if belongs to clause 8.5 of Information Brochure.
- (8) **Address for Communication:** Write your complete mailing address with pin code in CAPITAL LETTERS for postal communication.

**Contact Mobile Phone Number:** Write your mobile number. This mobile number will be used for communication with you during examination/admission process.

**E-Mail address:** Write your E-Mail address. This mail address will be used for communication with you during examination/admission process.

**(9) Qualifying Examination Details:**

- (a) Examination:** Choose appropriate option(s) whether you have passed or are appearing in Intermediate (10+2)/ Diploma in Engg./Diploma in Pharmacy/ Diploma in Agriculture Engg./Diploma in Architecture/Graduate
- (b) Qualifying Examination Passed/ Appearing from college situated in :** Choose “Uttar Pradesh” if you have passed or are appearing in qualifying examination form UP otherwise choose “Other than Uttar Pradesh”.
- (c) Year of Passing / Appearing:** Write year of passing or appearing, whichever is applicable, the qualifying examination.
- (10) Subjects in Qualifying Examination:** Choose the subject group in which you have passed / are appearing in, Qualifying Examination.
- (11) Choice of City of Centre for Entrance Examination in order of preference:** Indicate three distinct choices for city of examination from where you wish to appear in UPSEE 2017. Refer to Clause 12 or Appendix-E of the Information Brochure for city of examination.
- (12) Category:** Choose applicable category whether you are a candidate of UPGE, UPSC, UPST, UPBC, UPGD, GDSC, GDST, GDBC, GDDA, OSGE. . Refer to Clause 8.1 to 8.6 of this Information Brochure
- (13) Sub-Category:** Choose suitable subcategory depending upon whether you belong to sub-category UPFF, UPAF or UPHC otherwise choose “Not Applicable” if you do not belong to any of these sub-categories. Refer to Clause 9.2 to 9.9 of this Information Brochure.
- (14) Rural Weightage Claimed:** Choose “YES” if you are eligible for and want to claim rural Weightage otherwise choose “NO”. Refer to clause 10 of Information Brochure for rural weightage eligibility.
- (15) Seeking Admission For:** Choose appropriate option First Year for UG or 2<sup>nd</sup> Year (Lateral Entry) or First Year for PG. Please note that this choice is linked with your qualification and subjects in the qualifying examination. Please refer to clause 3 & 4 of the Information Brochure.
- (16) Course(s) APPLIED FOR:** Choose appropriate course name(s) to which you are seeking admission.
- (17) Papers in which you wish to appear in UPSEE-2017:** Choose appropriate paper(s) in which you wish to appear. Refer Clause 4 of the Information Brochure.

- (18) **Photograph:** Upload scanned image of your recent 3.5 cm x 4.5 cm color photograph in JPEG format. The photograph which are not clear will be considered as an attempt of the act of impersonation and application form is liable to be rejected.
- (19) **Signature:** Upload scanned image of your signature in JPEG format.
- (20) **Left Thumb Impression:** Upload scanned image of your Left Thumb Impression in JPEG format.
- (21) **Declaration:** Read the declaration and accept the declaration by ticking the check box named “I agree” provided. Unless you accept the declaration by ticking the given check box, you will not be able to submit the form.
- (22) **Mode of Payment:** Choose the appropriate mode (Credit Card / Debit Card / Net Banking) of making payment of the prescribed examination fee and make the payment. Please note that in addition to the examination fee, bank may charge additional amount as service charge and taxes as applicable on the transaction.
- (23) **Fee Amount in Rupees:** Examination fee is Rs 1200.00 for Male/ Transgender candidates of General/OBC Category and Rs 600.00 for SC/ST candidates and female candidates of all categories. Please refer to Clause 16 of the Information Brochure.

### SYLLABI FOR UPSEE-2017

#### PAPER – 1 (PHYSICS, CHEMISTRY & MATHEMATICS)

##### **Section A, PHYSICS**

**Measurement:** Dimensional analysis and error estimation, dimensional compatibility and significant figures.

**Motion in one dimension:** Average velocity, instantaneous velocity, one-dimensional motion with constant accelerations, freely falling bodies.

**Laws of Motion:** Force and inertia, Newton's laws of motion, and their significance.

**Motion in two dimensions:** Projectile motion, uniform circular motion, tangential and radial acceleration in curve-linear motion, relative motion and relative acceleration.

**Work, Power and Energy:** Work done by a constant and variable forces, kinetic and potential energy, power, Conservative and non conservative forces, conservation of energy, gravitational energy, work energy theorem, potential energy stored in a spring.

**Linear Momentum & collisions:** Linear momentum & impulse, conservation of linear momentum for two particle system, collisions, collision in one dimension, collision in two dimension, rocket propulsion.

**Rotation of a rigid body about a fixed axis:** Angular velocity and angular acceleration, rotational kinematics, rotational motion with constant angular acceleration relationship between angular and linear quantities, rotational energy, moment of inertia for a ring, rod, spherical shell, sphere and plane lamina, torque and angular acceleration, work and energy in rotational motion, rolling motion of a solid sphere and cylinder.

**Gravitation:** Gravitational field, Kepler's laws and motion of planets, planetary and satellite motion, geostationary satellite.

**Oscillatory motion:** Harmonic motion, oscillatory motion of mass attached to a spring, kinetic & potential energy, Time Period of a simple pendulum, comparing simple and harmonic motion with uniform circular motion, forced oscillations, damped oscillations and resonance.

**Mechanics of solids and fluids:** States of matter young's modulus, bulk modulus, shear modulus of rigidity, variations of pressure with depth, Buoyant forces and Archimedes principle, Pascal's law, Bernoulli's theorem and its application, surface energy, surface tension, angle of contact, capillary rise, coefficient of viscosity, viscous force, terminal velocity, Stoke's law, stream line motion, Reynold's numbers.

**Heat and thermodynamics:** First law of thermodynamics, specific heat of an ideal gas at constant volume and constant pressure, relation between them, thermodynamics process (reversible, irreversible, isothermal, adiabatic), second law of thermodynamics, concept of entropy and concept of absolute scale, efficiency of a Carnot engine, thermal conductivity, Newton's law of cooling, black body radiation, Wien's displacement law, Stefan's law.

**Wave:** Wave motion, phase, amplitude and velocity of wave, newton's formula for longitudinal waves, propagation of sound waves in air, effect of temperature and pressure on velocity of sound, Laplace's correction, Principle of superposition, formation of standing waves, standing waves in strings and pipes, beats, Doppler's effect.

**Electrostatics:** Coulomb's law, electric field and potential due to point charge, dipole and its field along the axis and perpendicular to axis, electric flux, Gauss's theorem and its applications to find the field due to infinite sheet of charge, and inside the hollow conducting sphere, capacitance, parallel plate capacitor

with air and dielectric medium between the Plates, series and parallel combination of capacitors, energy of a capacitor, displacement currents.

**Current Electricity:** Concept of free and bound electrons, drift velocity and mobility, electric current, Ohm's law, resistivity, conductivity, temperature dependency of resistance, resistance in series and parallel combination, Kirchoff's law and their application to network of resistances, principle of potentiometer, effect of temperature on resistance and its application.

**Magnetic Effect of Current:** Magnetic field due to current, Biot-Savart's law, magnetic field due to solenoid, motion of charge in a magnetic field, force on a current carrying conductors and torque on current loop in a magnetic field, magnetic flux, forces between two parallel current carrying conductors, moving coil galvanometer and its conversion into ammeter and voltmeter.

**Magnetism in Matter:** The magnetization of substance due to orbital and spin motions of electrons, magnetic moment of atoms, diamagnetism, paramagnetism, ferromagnetism, earth's magnetic field and its components and their measurement.

**Electromagnetic induction:** Induced e.m.f., Faraday's laws, Lenz's law, electromagnetic induction, self and mutual induction, B-H curve, hysteresis loss and its importance, eddy currents.

**Ray Optics and optical instruments:** Sources of light, luminous intensity, luminous flux, illuminance, photometry, wave nature of light, Huygen's theory for propagation of light and rectilinear propagation of light, reflection of light, total internal reflection, reflection and refraction at spherical surfaces, focal length of a combination of lenses, spherical and chromatic aberration and their removal, refraction and dispersion of light due to a prism, simple and compound microscope, reflecting and refracting telescope, magnifying power and resolving power.

**Wave Optics:** Coherent and incoherent sources of light, interference, young's double slit experiment diffraction due to a single slit, linearly polarized light, Polaroid.

**Modern Physics:** Photo-electric equation, matter waves, quantization, Planck's hypothesis, Bohr's model of hydrogen atom and its spectra, ionisation potential, Rydberg constant, solar spectrum and Fraunhofer lines, fluorescence and phosphorescence, X-Rays and their productions, characteristic and continuous spectra.

Nuclear Instability, radioactive decay laws, Emission of  $\alpha$ ,  $\beta$ ,  $\gamma$  rays, Mass - defect, Mass Energy equivalence, Nuclear Fission Nuclear Reactors, Nuclear Fusion.

Classification of conductors, Insulators and semiconductors on the basis of energy bands in solids, PN junction, PN Diode, junction Transistors, Transistor as an amplifier and Oscillator.

Principles of Logic Gates ( AND, OR and NOT ) Analog Vs Digital communication, Difference between Radio and television, Signal propagation, Principle of LASER and MASER, Population Inversion, Spontaneous and stimulated Emission.

## **Section B, CHEMISTRY**

**Atomic Structure:** Bohr's concept. Quantum numbers, Electronic configuration, molecular orbital theory for homonuclear molecules, Pauli's exclusion principle.

**Chemical Bonding:** Electrovalency, co-valency, hybridization involving s,p and d orbitals hydrogen bonding.

**Redox Reactions:** Oxidation number, oxidising and reducing agents, balancing of equations.

**Chemical Equilibrium and Kinetics:** Equilibrium constant (for gaseous system only) Le Chaterlier's principle, ionic equilibrium, Ostwald's dilution law, hydrolysis, pH and buffer solution, solubility product, common-ion effect, rate constant and first order reaction.

**Acid - Base Concepts:** Bronsted Lowry & Lewis.

**Electrochemistry:** Electrode potential and electro-chemical series.

**Catalysis:** Types and applications.

**Colloids:** Types and preparation, Brownian movement, Tyndall effect, coagulation and peptization.

**Colligative Properties of Solution:** Lowering of vapour pressure, Osmotic pressure, depression of freezing point, elevation of boiling point, determination of molecular weight.

**Periodic Table:** Classification of elements on the basis of electronic configuration, properties of s,p and d block elements, ionization potential, electronegativity & electron affinity.

**Preparation and Properties of the following:** Hydrogen peroxide. copper sulphate, silver nitrate, plaster of paris, borax, Mohr's salt, alums, white and red lead, microcosmic salt and bleaching powder, sodium thiosulphate.

**Thermochemistry:** Exothermic & endothermic reactions Heat of reaction, Heat of combustion & formation, neutralisation, Hess's law.

**General Organic Chemistry:** Shape of organic compounds, Inductive effect, mesomeric effect, electrophiles & nucleophiles, Reaction intermediates: carboniumion, carbanions & free radical, Types of organic reactions, Cannizzaro Friedel Craft, Perkin, Aldol condensation.

**Isomerism:** Structural, Geometrical & Optical

**IUPAC:** Nomenclature of simple organic compounds.

**Polymers:** Addition & condensation polymers

**Carbohydrates:** Monosaccharides.

**Preparation and Properties Of the Followings:** Hydrocarbons, monohydric alcohols, aldehydes, ketones, monocarboxylic acids, primary amines, benzene, nitrobenzene, aniline, phenol, benzaldehyde, benzoic acid, Grignard Reagent.

**Solid State:** Structure of simple ionic compounds, Crystal imperfections (point defects only), Born-Haber cycle

**Petroleum:** Important industrial fractions, cracking, octane number, anti knocking compounds.

### **Section C, MATHEMATICS**

**Algebra:** Sets relations & functions, De-Morgan's Law, Mapping Inverse relations, Equivalence relations, Peano's axioms, Definition of rationals and integers through equivalence relation, Indices and surds, Solutions of simultaneous and quadratic equations, A.P., G.P. and H.P., Special sums i.e.  $\sum n^2$  and  $\sum n^3$  ( $n \in \mathbb{N}$ ), Partial fraction, Binomial theorem for any index, exponential series, Logarithm and Logarithmic series. Determinants and their use in solving simultaneous linear equations, Matrices, Algebra of matrices, Inverse of a matrix, Use of matrix for solving equations.

**Probability:** Definition, Dependent and independent events, Numerical problem on addition and multiplication, theorem of probability.

**Trigonometry:** Identities, Trigonometric equations, properties of triangles, solution of triangles, heights and distances, Inverse function, Complex numbers and their properties, Cube roots of unity, De-Moivre's theorem.

**Co-ordinate Geometry:** Pair of straight lines, Circles, General equation of second degree, parabola, ellipse and hyperbola, tracing of conics.

**Calculus:** Limits & continuity of functions, Differentiation of function of function, tangents & normal, Simple examples of Maxima & Minima, Indeterminate forms, Integration of function by parts, by substitution and by partial fraction, definite integral, application to volumes and surfaces of frustums of sphere, cone and cylinder. Differential equations of first order and of first degree.



**Vectors** : Algebra of vectors, scalar and vector products of two and three vectors and their applications.

**Dynamics** : Velocity, composition of velocity, relative velocity, acceleration, composition of accelerations, Motion under gravity, Projectiles, Laws of motion, Principles of conservation of momentum and energy, direct impact of smooth bodies.

**Statics**: Composition of coplanar, concurrent and parallel forces moments and couples resultant of set of coplanar forces and condition of equilibrium, determination of centroid in simple cases, Problems involving friction.

## **PAPER – 2 (PHYSICS, CHEMISTRY & BIOLOGY)**

### **Section A, PHYSICS**

**Measurement**: Dimensional analysis and error estimation, dimensional compatibility and significant figures.

**Motion in one dimension**: Average velocity, instantaneous velocity, one-dimensional motion with constant accelerations, freely falling bodies.

**Laws of Motion**: Force and inertia, Newton's laws of motion, and their significance.

**Motion in two dimensions**: Projectile motion, uniform circular motion, tangential and radial acceleration in curve-linear motion, relative motion and relative acceleration.

**Work, Power and Energy**: Work done by a constant and variable forces, kinetic and potential energy, power, Conservative and non conservative forces, conservation of energy, gravitational energy, work energy theorem, potential energy stored in a spring.

**Linear Momentum & collisions**: Linear momentum & impulse, conservation of linear momentum for two particle system, collisions, collision in one dimension, collision in two dimension, rocket propulsion.

**Rotation of a rigid body about a fixed axis**: Angular velocity and angular acceleration, rotational kinematics, rotational motion with constant angular acceleration relationship between angular and linear quantities, rotational energy, moment of inertia for a ring, rod, spherical shell, sphere and plane lamina, torque and angular acceleration, work and energy in rotational motion, rolling motion of a solid sphere and cylinder.

**Gravitation**: Gravitational field, Kepler's laws and motion of planets, planetary and satellite motion, geostationary satellite.

**Oscillatory motion**: Harmonic motion, oscillatory motion of mass attached to a spring, kinetic & potential energy, Time Period of a simple pendulum, comparing simple and harmonic motion with uniform circular motion, forced oscillations, damped oscillations and resonance.

**Mechanics of solids and fluids**: States of matter young's modulus, bulk modulus, shear modulus of rigidity, variations of pressure with depth, Buoyant forces and Archimedes principle, Pascal's law, Bernoulli's theorem and its application, surface energy, surface tension, angle of contact, capillary rise, coefficient of viscosity, viscous force, terminal velocity, Stoke's law, stream line motion, Reynold's numbers.

**Heat and thermodynamics**: First law of thermodynamics, specific heat of an ideal gas at constant volume and constant pressure, relation between them, thermodynamics process (reversible, irreversible, isothermal, adiabatic), second law of thermodynamics, concept of entropy and concept of absolute scale, efficiency of a Carnot engine, thermal conductivity, Newton's law of cooling, black body radiation, Wien's displacement law, Stefan's law.

**Wave**: Wave motion, phase, amplitude and velocity of wave, newton's formula for longitudinal waves, propagation of sound waves in air, effect of temperature and pressure on velocity of sound, Laplace's

correction, Principle of superposition, formation of standing waves, standing waves in strings and pipes, beats, Doppler's effect.

**Electrostatics:** Coulomb's law, electric field and potential due to point charge, dipole and its field along the axis and perpendicular to axis, electric flux, Gauss's theorem and its applications to find the field due to infinite sheet of charge, and inside the hollow conducting sphere, capacitance, parallel plate capacitor with air and dielectric medium between the Plates, series and parallel combination of capacitors, energy of a capacitor, displacement currents.

**Current Electricity:** Concept of free and bound electrons, drift velocity and mobility, electric current, Ohm's law, resistivity, conductivity, temperature dependency of resistance, resistance in series and parallel combination, Kirchoff's law and their application to network of resistances, principle of potentiometer, effect of temperature on resistance and its application.

**Magnetic Effect of Current:** Magnetic field due to current, Biot-Savart's law, magnetic field due to solenoid, motion of charge in a magnetic field, force on a current carrying conductors and torque on current loop in a magnetic field, magnetic flux, forces between two parallel current carrying conductors, moving coil galvanometer and its conversion into ammeter and voltmeter.

**Magnetism in Matter:** The magnetization of substance due to orbital and spin motions of electrons, magnetic moment of atoms, diamagnetism, paramagnetism, ferromagnetism, earth's magnetic field and its components and their measurement.

**Electromagnetic induction:** Induced e.m.f., Faraday's laws, Lenz's law, electromagnetic induction, self and mutual induction, B-H curve, hysteresis loss and its importance, eddy currents.

**Ray Optics and optical instruments:** Sources of light, luminous intensity, luminous flux, illuminance, photometry, wave nature of light, Huygen's theory for propagation of light and rectilinear propagation of light, reflection of light, total internal reflection, reflection and refraction at spherical surfaces, focal length of a combination of lenses, spherical and chromatic aberration and their removal, refraction and dispersion of light due to a prism, simple and compound microscope, reflecting and refracting telescope, magnifying power and resolving power.

**Wave Optics:** Coherent and incoherent sources of light, interference, young's double slit experiment diffraction due to a single slit, linearly polarized light, Polaroid.

**Modern Physics:** Photo-electric equation, matter waves, quantization, Planck's hypothesis, Bohr's model of hydrogen atom and its spectra, ionisation potential, Rydberg constant, solar spectrum and Fraunhofer lines, fluorescence and phosphorescence, X-Rays and their productions, characteristic and continuous spectra.

Nuclear Instability, radioactive decay laws, Emission of  $\alpha$ ,  $\beta$ ,  $\gamma$  rays, Mass - defect, Mass Energy equivalence, Nuclear Fission Nuclear Reactors, Nuclear Fusion.

Classification of conductors, Insulators and semiconductors on the basis of energy bands in solids, PN junction, PN Diode, junction Transistors, Transistor as an amplifier and Oscillator.

Principles of Logic Gates ( AND, OR and NOT ) Analog Vs Digital communication, Difference between Radio and television, Signal propagation, Principle of LASER and MASER, Population Inversion, Spontaneous and stimulated Emission.

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**Atomic Structure:** Bohr's concept. Quantum numbers, Electronic configuration, molecular orbital theory for homonuclear molecules, Pauli's exclusion principle.

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**Chemical Equilibrium and Kinetics:** Equilibrium constant (for gaseous system only) Le Chaterlier's principle, ionic equilibrium, Ostwald's dilution law, hydrolysis, pH and buffer solution, solubility product, common-ion effect, rate constant and first order reaction.

**Acid - Base Concepts:** Bronsted Lowry & Lewis.

**Electrochemistry:** Electrode potential and electro-chemical series.

**Catalysis:** Types and applications.

**Colloids:** Types and preparation, Brownian movement, Tyndall effect, coagulation and peptization.

**Colligative Properties of Solution:** Lowering of vapour pressure, Osmotic pressure, depression of freezing point, elevation of boiling point, determination of molecular weight.

**Periodic Table:** Classification of elements on the basis of electronic configuration, properties of s,p and d block elements, ionization potential, electronegativity & electron affinity.

**Preparation and Properties of the following:** Hydrogen peroxide. copper sulphate, silver nitrate, plaster of paris, borax, Mohr's salt, alums, white and red lead, microcosmic salt and bleaching powder, sodium thiosulphate.

**Thermochemistry:** Exothermic & endothermic reactions Heat of reaction, Heat of combustion & formation, neutralisation, Hess's law.

**General Organic Chemistry:** Shape of organic compounds, Inductive effect, mesomeric effect, electrophiles & nucleophiles, Reaction intermediates: carboniumion, carbanions & free radical, Types of organic reactions, Cannizzaro Friedel Craft, Perkin, Aldol condensation.

**Isomerism:** Structural, Geometrical & Optical

**IUPAC:** Nomenclature of simple organic compounds.

**Polymers:** Addition & condensation polymers

**Carbohydrates:** Monosaccharides.

**Preparation and Properties Of the Followings:** Hydrocarbons, monohydric alcohols, aldehydes, ketones, monocarboxylic acids, primary amines, benzene, nitrobenzene, aniline, phenol, benzaldehyde, benzoic acid, Grignard Reagent.

**Solid State:** Structure of simple ionic compounds, Crystal imperfections (point defects only), Born-Haber cycle

**Petroleum:** Important industrial fractions, cracking, octane number, anti knocking compounds.

## **Section C, BIOLOGY**

### **Zoology**

**Origin of Life:** Oparin's theory, Miller's Experiment, Viruses - structure, properties, distribution, classification and pathogenesis (Eg. AIDS, CANCER), Viroids & Prions, Biotic balance.

**Organic Evolution:** Relationship among organisms and Evidences of organic Evolution - Principles of Evolution - Lamarkism, Darwinism and Speciation.

**Mechanism of Organic Evolution:** Variations - Definition, causes and types, Mutations (Principles of Hugo de'Veries), Role of mutations in speciation. Evolution through ages and human evolution

**Human Genetics and Eugenics:** Human hereditary traits, study of Twins, A.B.O. blood groups and their inheritance, Rh-factor, Sex determination. Chromosomal aberrations, Important human syndromes, Sex linked characters and their inheritance, Applied Genetics - eugenics, euthenics, euphenics & I.Q. Test.

**Applied Biology:** Wild life of India - Endangered species: Biosphere Reserves, National Parks and sanctuaries, Project Tiger, Conservation of wild life, Bio-energy, Poultry, Fisheries (edible fishes), Human

Population, Population explosion, problems & control. Test - Tube babies, & Amniocentesis, Application of Biotechnology in human welfare. Human Aging.

**Mammalian Anatomy (Eg. Rabbit):** Reproductive system (excluding embryonic development) Osteology, structure and organization of different systems.

**Animal Physiology:**

(A) *Animal Nutrition:* Food, Balanced diet, Nutritional imbalances and deficiency diseases, Digestion, Absorption, Assimilation of food, (comparison between human and Rabbit).

(B) *Animal Excretion and Osmoregulation:* Chemical nature of excretory products in various animals, Physiology of excretion, Function of liver and kidney (Homeostatic regulatory functions of kidneys), Formation of urine, Osmoregulation by kidneys.

(C) *Respiratory system:* Exchange and transport of gases (O<sub>2</sub> and Co<sub>2</sub>) factors affecting O<sub>2</sub> and Co<sub>2</sub> transport, Cellular respiration, different lung volumes, breathing and sound production.

(D) *Nervous systems:* Central, autonomic and peripheral nervous system, Receptors, Effectors, Reflex-action. Nature and conduction of Nerve- impulses, Synapse, Sense organs - Structure & working of Eye & Ear, Biochemistry of vision and taste buds.

(E) *Endocrine System:* Different endocrine glands and Hormones - definition, types, characteristics and their functions, (in relation to human beings), Hormonal disorders and pheromones.

(F) *Circulatory System:* Circulation of body fluids- Blood and lymph, Open and closed vascular systems, Structure and working physiology of Heart, Comparison between arteries and veins, Lymphatic system.

(G) *Animal Diversity:* Classification of Animal kingdom (Based on Storar & Eusinger), Characteristic feature of different phyla and classes with examples.

**Detailed studies of followings:**

(a) Protozoa

(i) Amoeba- Habit & Habitat, structure, locomotion, reproduction, Osmoregulation, Parasitic amoebae - Entamoeba histolytica and Entamoeba gingivalis, structure, diseases caused by them and their control measures.

(ii) Plasmodium vivax-life-cycle, malaria therapy and control.

(iii) Protozoan and diseases

(b) Porifera: A simple sponge ( Leucosolenia); Detailed study of structure & physiology, Sponge industry.

(c) Coelenterata: Hydra - Habit and Habitat, morphology, tissue differentiation in relation to physiological division of labour and regeneration.

(d) Aschelminthes: Ascaris- morphology, life-cycle, therapy and control.

(e) Annelida: Pheretima posthuma - Bionomics and economic importance.

(f) Arthropoda: (Periplanata): Structure- external and internal.

**Comparison between Periplanata and Blatta.**

(i) Housefly & Mosquito: structure and life – cycle

(ii) Economic importance of insets & their control.

**Botany**

**Plant Cell:** Structure & functions electron microscopic structured mitochondria, Plastids centrosomes. Lysosomes, microsomes, endoplasmic reticulum, Nucleus, Golgibodes, D.N.A & R.N.A. Cytoplasm, membranes and cell wall.

**Protoplasm:** structure, components physical and chemical properties.

Cell divison (formation) - free cell formation, Amitosis & Meosis, Duplication of D.N.A.

**Ecology:** Ecological factors (atmospheric, edaphic, climatic, geological & biotic factors).

**Ecosystem:** Structure, components of ecosystem eg. Water soluble minerals and gases, producers consumers, decomposers, Pond and forest ecosystem.

Atmospheric pollution-causes and control, Types of pollution - Detergents, chemicals automobile exhaust, Radioactive matter, Smog, sound, Pesticides.

**Genetics:** Mendalism, Mendals experiment and law of inheritance.

Modern Classification of plant kingdom- (according to Ostwald & Tippo) (outline).

**Seeds in angiospermic plants:** description of development of angiospermic plants (life history of angiospermic plants).

**Fruits:** Dispersal of fruits and seeds

**Cell differentiation Plant Tissue:** Meristimatic classification of meristimatic & permanet tissue and functions and classification of tissue system.

**Anatomy of Root, stem and leaf:** difference between dicot and Monocot stem. Secondary growth of stem and root. Anatomy of hydrophytes, Xeophytes & Mesophytes.

**Important phylums:**

Algae: Habitat, general characters & uses, description of ulothrix & spirogyra.

Bacteria: structure - types of nutrition, reproduction and economic importance.

Fungi: structure description of Rhizopus and yeast and their economic importance, Fermentation.

Broyophyta: structure and economic importance, description of funaria (Moss)

Pteridophyta: general structures of pteridophytes description of fern (Droypteris)

General study of gymnosperms and life history of cycas.

Classification of angiospermn,

Description of families - identification and economic importance

Cruciferae, Malvaceae, Leguminosae, compositeae, cucurbitaceae.

**Soil:**

Absorption of water through root hairs osmosis, Translocation and Root pressure

Nitrogen cycle.

Special modes of nutrition in plants (Autotrophic, heterotrophic, Parasites, saprophytes, Symbionts insectivorous and their ecological relation.

**Photosynthesis:** Chloroplast, light, chlorophyll and Carbon dioxide, Mechanism of photosynthesis formation of A.T.P. and their functions and importance of photosynthesis.

Transpiration: factors and importance, Mechanism of opening and closing of stomata.

Respiration: aerobic, anaerobic respiration, mechanism of respiration (Glycolysis, Kreb's cycle, E.T.S.)

Growth & movement: definition of growth, Region of growth & their measurements, types of movements in plants, Growth harmone.

## **PAPER – 3 (AG-I, AG II & AG III)**

### **AG – I: AGRICULTURAL PHYSICS AND CHEMISTRY**

#### **Agricultural Physics**

Unit, measurement, Vernier, screw gauge, Force-analysis, force parallelogram, momentum of force, equilibrium of forces, velocity and acceleration, speed, laws of motion, gravitational motion, acceleration due to gravity, circular motion, Centrifugal and centripetal forces, pressure, Capillary force and tension, atmospheric surface-barometer, Boyle's law, friction and simple example of its laws, Working of common

pumps, operation, performance, power and energy, heat and temperature, radiation, convection and conduction, heat conductance, specific heat in relation to solids, physical change in the solid due to heat, latent heat, relationship between heat and work, dewpoint, relative humidity and its determination, formation of clouds, fog, frost, snow and hail, weather and its forecasting.

### **Agricultural Chemistry**

Matter - solid and liquid, physical and chemical changes, element, mixture, compound, laws of chemical combination, laws of conservation, laws of proportion, laws of gases, explanation of above laws in reference to atomic principle, atomic laws, new & old concepts, definition, simple explanation and inter-relationship of the following:

Valency, atomic weight, molecular weight, equivalent weight, structure of atom, Avogadro's hypothesis and its uses, ionic theory, difference between atom and ion, explanation of the following with the help of ionic theory, electrolysis, acid, alkali, salt, water, hydrolysis and neutralisations, oxidation and reduction, classification of elements.

**Inorganic Chemistry:** Water and its hardness, methods of treatment of hard water and soft water, occurrence of compounds, properties and uses of the following elements nitrogen, ammonia, nitric acid, carbon, carbon dioxide, phosphoric acid, sulphur dioxide, sulphuric acid, chlorine, hydrochloric acid. Occurrence, properties, uses and their functions in the plants of the following: Sodium, sodium chloride, sodium hydroxide, sodium carbonate, sodium bicarbonate, sodium phosphate, sodium nitrate, potassium sulphate, Calcium, calcium oxide, calcium carbonate, calcium sulphate and calcium nitrate, Iron, sulphate and iron phosphate, aluminium, aluminium sulphate and aluminium phosphate Nitrogen cycle, Fixation of nitrogen in the soil, function of Super-phosphate and phosphorus in plant, nitrogen fertilizers.

**Organic Chemistry:** Formation of organic compounds, physical properties, nomenclature, general knowledge of the following compounds, simple formulae, general properties and main uses, Structural formula of the following: Hydrocarbon (saturated and unsaturated) alcohol ethyl alcohol and glycol, aldehyde and ketones, formaldehyde, acetone, amine and oxide, methyl and ethylamine, urea, Acids: acetic, benzoic, lactic, Oxalic acids, fats and oils, soap and saponification, carbohydrates, glucose, fructose, starch, simple methods of making benzene and phenol and their properties.

## **AG – II: AGRICULTURAL ENGINEERING AND STATISTICS**

### **Agricultural Engineering**

Properties of different materials used in agricultural implements, Classification of plough their merits, comparison, common troubles in their operation and precautions, maintenance, assembly, cost and comparison of cultivation harrow, hoe, float, scraper and seed drill, draft of implements. Their measurements, factors affecting draft. Water lifts, their discharge, capacities, command area, and cost of irrigation ( water lifts should include common water lifts and low lift pumps ). Tillage and ploughing, types of ploughing and their merits. Types and objects tillage. Chemical and Physical effects of tillage practices for different crops. Transmission of power through gears. Pulleys and belts, hand operated chaff cutters, cane crusher, winnowing fan, and splat threshers.

### **Agricultural Statistics**

Collection of data, classification and tabulation, frequency distribution, mean and their kinds, merits and demerits. Measurements of dispersion.

## **AG – III: AGRONOMY & AGRICULTURAL BOTANY**

### **Agronomy**

**Crops:** Cultivation, practices of common crops of India and their varieties..

**Soils:** Origin, classification and physical properties of soils, soil conservation.

**Manures And Manuring:** Nutrients for plants growth, uptake of N.P.K. organic and inorganic fertilizers, farmyard and green manures, their properties and method of application, knowledge of following manures and fertilizer: FYM, compost, urinated soil, castor and groundnut cake, ammonium sulphate, sodium nitrate, super phosphate, potassium sulphate, urea, CAN ammonium chloride and mixtures.

**Irrigation & Drainage:** Methods, measurement and type of irrigation and drainage systems, Cultivation practices of common vegetable and fruit crops.

### **Agricultural Botany**

External morphology of plants, function and modification of stem, root and leaves, structure and function of different parts of flower, type of inflorescence, pollen and pollination, classification, structure, germination and dispersal of seeds, type of function and their dispersal, internal morphology of plant cell, reproductive organs of angiosperms, knowledge of structure of rlltharis, Absorption, Respiration, Transpiration and carbon assimilation, root pressure, Translocation of foods and storage, Introductory knowledge of Taxonomy and plant kingdom specially Regional and Horticultural plants laminaries, Cruciferease, Leguminaceae, Cucurbitaceae, Solonaceae, Malbaceae, Elementry Knowledge of mosses, ferns, mucors, bacteria.

## **PAPER – 4 (APTITUDE TEST FOR ARCHITECTURE)**

### **Part – A: Mathematics & Aesthetic Sensitivity**

#### **MATHEMATICS**

**Algebra:** Sets relations & functions, De-Morgan's Law, Mapping Inverse relations, Equivalence relations, Peano's axioms, Definition of rationals and integers through equivalence relation, Indices and surds, Solutions of simultaneous and quadratic equations, A.P., G.P. and H.P., Special sums i.e.  $\sum n^2$  and  $\sum n^3$  ( $n \in \mathbb{N}$ ), Partial fraction, Binomial theorem for any index, exponential series, Logarithm and Logarithmic series. Determinants and their use in solving simultaneous linear equations, Matrices, Algebra of matrices, Inverse of a matrix, Use of matrix for solving equations.

**Probability:** Definition, Dependent and independent events, Numerical problem on addition and multiplication, theorem of probability.

**Trigonometry:** Identities, Trigonometric equations, properties of triangles, solution of triangles, heights and distances, Inverse function, Complex numbers and their properties, Cube roots of unity, De-Moivre's theorem.

**Co-ordinate Geometry:** Pair of straight lines, Circles, General equation of second degree, parabola, ellipse and hyperbola, tracing of conics.

**Calculus:** Limits & continuity of functions, Differentiation of function of function, tangents & normal, Simple examples of Maxima & Minima, Indeterminate forms, Integration of function by parts, by substitution and by partial fraction, definite integral, application to volumes and surfaces of frustums of sphere, cone and cylinder. Differential equations of first order and of first degree.

**Vectors :** Algebra of vectors, scalar and vector products of two and three vectors and their applications.

**Dynamics** : Velocity, composition of velocity, relative velocity, acceleration, composition of accelerations, Motion under gravity, Projectiles, Laws of motion, Principles of conservation of momentum and energy, direct impact of smooth bodies.

**Statics:** Composition of coplanar, concurrent and parallel forces moments and couples resultant of set of coplanar forces and condition of equilibrium, determination of centroid in simple cases, Problems involving friction.

### **Aesthetic sensitivity**

Aesthetic sensitivity Test is aimed to evaluate a candidate for aesthetic Perception, Imagination, and Observation; Creativity and Communication; and Architectural awareness.

- Visualizing three dimensional objects from two dimensional drawings
- Visualizing different sides / surfaces of three dimensional objects.
- Identifying commonly used materials and objects based on their textural qualities.
- Analytical Reasoning
- Mental Ability
- Imaginative comprehension and expression
- Architectural awareness

### **Part- B: Drawing Aptitude**

The Drawing Aptitude Test is aimed to evaluate a candidate for his understanding of Scale and Proportion; sense of perspective, colour and; understanding of the effects of light on objects through shades and shadows

- Ability to sketch a given object proportionately and rendering the same in visually appealing manner
- Visualising and drawing the effects of light on the objects and their shadow cast on the surroundings.
- Sense of Perspective Drawing
- Combining and composing given three dimensional elements to form a building or structural form
- Creating interesting two dimensional compositions using given shapes or planner forms
- Creating visual harmony using colours in given composition
- Understanding of scale and sense of proportion

## **PAPER – 5 (APTITUDE TEST FOR GENERAL AWARENESS (BHMCT/BFAD/BFA))**

### **(A) Reasoning & Logical Deduction:**

- Geometrical designs & Identification
- Selection of related letters / words / numbers / figures
- Identification of odd thing / item out from a group
- Completion of numerical series based on the pattern / logic
- Fill in the blanks of the series based on the numerical pattern and logic of the series
- Syllogisms (logic based questions), Identification of logic & selection of correct answers based on the logic

### **(B) Numerical Ability & Scientific Aptitude:**

- Arithmetical questions up to 10<sup>th</sup> standard



- Calculation of fraction, percentages, square roots etc.
- Profit & Loss and Interest calculations
- Data / Table analysis, Graph & Bar Diagram and Pie Chart analysis
- Questions related to common use of science (Physics & Chemistry)
- Health & Nutrition

**(C) General Knowledge:**

- Current affairs / Events (Political, Social, Cultural & Economics)
- Historical events
- Geography including Tourist Places / Spots
- Current affairs relating to Business & Trade
- Countries & Currencies
- Latest Who's Who?
- Sports & Games

**(D) English Language:**

- Word Meanings
- Antonyms & Synonyms
- Meaning of Phrases & Idioms
- Fill in the blanks
- Complete / Improvement of the sentences with correct use of Pronouns, Verbs, Adverbs & Adjectives
- Reading comprehension's followed by questions

**PAPER – 6 (APTITUDE TEST FOR DIPLOMA HOLDERS IN ENGINEERING)**

Engineering Mechanics, Engineering Graphics, Basic Electrical Engg., Basic Electronics Engg., Elements of computer science, Elementary Biology, Basic Workshop Practice and Physics/Chemistry/Maths of Diploma standard.

**PAPER – 7 (APTITUDE TEST FOR DIPLOMA HOLDERS IN PHARMACY)**

1. Pharmaceutics-I
2. Pharmaceutical Chemistry - I
3. Pharmacognosy
4. Biochemistry and Clinical Pathology
5. Human Anatomy and Physiology
6. Health Education & Community Pharmacy
7. Pharmaceutics - II
8. Pharmaceutical Chemistry - II
9. Pharmacology and Toxicology
10. Pharmaceutical Jurisprudence
11. Drug Store and Business management
12. Hospital and Clinical Pharmacy

## PAPER – 8 (APTITUDE TEST FOR B.SC. GRADUATE IN ENGINEERING)

**Linear Algebra:** Matrix Algebra, Systems of linear equations, Eigen values and eigen vectors.

**Calculus:** Mean value theorems, Theorems of integral calculus, Evaluation of definite and improper integrals, Partial Derivatives, Maxima and minima, multiple integrals, Fourier series. Vector identities, Directional derivatives, Line, Surface and Volume integrals, Stokes, Gauss and Green's theorems.

**Differential equations:** First order equation (linear and nonlinear), Higher order linear differential equations with constant coefficients, Method of variation of parameters, Cauchy's and Euler's equations, Initial and boundary value problems, Linear partial differential equations with constant coefficients of 2<sup>nd</sup> order and their classifications and variable separable method.

**Complex variables:** Analytic functions, Cauchy's integral theorem and integral formula, Taylor's and Laurent' series, Residue theorem, solution integrals.

**Probability and Statistics:** Sampling theorems, Conditional probability, Mean, median, mode and standard deviation, Random variables, Discrete and continuous distributions, Poisson, Normal and Binomial distribution, Correlation and regression analysis.

**Fourier Series:** Periodic functions, Trigonometric series, Fourier series of period  $2\pi$ , Eulers formulae, Functions having arbitrary period, Change of interval, Even and odd functions, Half range sine and cosine series.

**Transform Theory:** Laplace transform, Laplace transform of derivatives and integrals, Inverse Laplace transform, Laplace transform of periodic functions, Convolution theorem, Application to solve simple linear and simultaneous differential equations.

Fourier integral, Fourier complex transform, Fourier sine and cosine transforms and applications to simple heat transfer equations. Z – transform and its application to solve difference equations.

## PAPER – 9 (APTITUDE TEST FOR MBA)

The test is aimed at evaluating the verbal ability, quantitative aptitude, logical & abstract reasoning and knowledge of current affairs. The following is a brief description of contents of the test paper.

**Section A (English Language):** Grammar, vocabulary, uncommon words, sentence completion, synonyms, antonyms, relationship between words & phrases and comprehension of passages.

**Section B (Numerical Aptitude):** Numerical calculation, arithmetic, simple algebra, geometry and trigonometry, Interpretation of graphs, charts and tables.

**Section C (Thinking and Decision Making):** Creative thinking, unfamiliar relationships, verbal reasoning, finding patternstrends and Assessment of figures & diagrams.

**Section D (General Awareness):** Knowledge of current affairs and other issues related to trade, industry, economy, sports, culture and science.

## PAPER – 10 (APTITUDE TEST FOR MCA)

### (i) MATHEMATICS

**Modern Algebra:** Idempotent law, identities, complementary laws, Demorgan's theorem, mapping, inverse relation, equivalence relation, Pano's Axiom, definition of rational numbers and integers through equivalence relation.

**Algebra:** Surds, solution of simultaneous and quadratic equations, arithmetic, geometric and harmonic progression, Binomial theorem for any index, logarithms, exponential and logarithmic series, determinants.

**Probability:** Definition, dependent and independent events, numerical problems on addition and multiplication of probability, theorems of probability.

**Trigonometry:** Simple identities, trigonometric equations, properties of triangles, use of mathematical tables, solution of triangles, height and distance, inverse functions, DeMoiver's theorem.

**Co-Ordinate Geometry:** Co-ordinate geometry of the straight lines, pair of straight lines, circle, parabola, ellipse and hyperbola and their properties.

**Calculus:** Differentiation of function of functions, tangents and normal, simple examples of maxima of minima, limits of function, integration of function (by parts, by substitution and by partial fraction), definite integral (application to volumes and surfaces of frustums of sphere, cone and cylinder).

**Vectors:** Position vector, addition and subtraction of vectors, scalar and vector products and their applications.

**Dynamics:** Velocity, composition of velocity, relative velocity, acceleration, composition of acceleration, motion under gravity, projectiles, laws of motions, principles of conservation of momentum and energy, direct impact of smooth bodies, pulleys.

**Statics:** Composition of co-planar, concurrent and parallel forces, moments and couples, resultant of set of coplanar forces and conditions of equilibrium, determination of Centroides in simple case, problems involving friction.

### (ii) STATISTICS

Theory of probability, Mean, Median, Mode, Dispersion and Standard Deviation.

### (iii) LOGICAL ABILITY

Questions to test analytical and reasoning capability of candidates.

## PAPER- 11 APTITUDE TEST FOR 2nd Year MCA (Lateral Entry)

### (I) MATHEMATICAL STRUCTURES

**Modern Algebra and Matrices:** Algebraic structures and general properties, semigroups, groups. Rings and Fields: definitions, elementary properties and standard results. Matrices, operation on matrices, Inverse and rank of a matrix, Eigen values, eigenvectors and system of linear equations.

**Set Theory:** Introduction, sets and cardinals, combination of sets, multisets and set identities. Relations - definition, operations on relations, composite relations, properties of relations, partial order relations. Functions - definition, classification of functions, operations on functions, recursively defined functions.

**Number Theory and Methods of Proof:** Natural numbers, factorization and prime numbers, floor and ceiling functions. Methods of proof – Introduction, direct and indirect methods of proof, mathematical Induction.

**Combinatorics and Probability:** Introduction, counting techniques, Pigeonhole principle. Probability –definition, sample space, algebra of events, axioms of probability, prior and posterior probability, Bayes theorem.

(II) **COMPUTING CONCEPTS**

**Principles of Computer Science:** Computer organization - evaluation of computers, computer arithmetic, control design, processor design, input output organization, memory organization. Data Structures – Arrays, lists, stacks, queues. Trees and graphs - definition, properties and applications. Analysis of algorithms.

**Proposition logic and Boolean Algebra:** Propositions, truth tables, tautology, contradiction, algebra of propositions. Binary systems, axioms and theorems of Boolean algebra, Boolean functions and digital circuits.

**Numerical Techniques:** Floating point Arithmetic, solution of the system of linear equations, roots of polynomials, interpolation and curve fitting.

**Theory of Computation:** Finite-state machines, regular and non-regular languages, Turing machines and applications.

(III) **REASONING ABILITY**

Questions in this part will be aimed to assess the reasoning and logical ability of the candidates

**(i) LIST OF BRANCHES OF ALL THE COURSES**

<b>NAME OF BRANCHES</b>	<b>BRANCH CODE</b>	<b>STREAM</b>
Aeronautical Engineering	AE	B.Tech.
Agricultural Engineering	AG	B.Tech
Applied Electronics & Instrumentation	AI	B.Tech
Architecture	AR	B.Arch.
Automobile Engineering	AU	B.Tech.
Bio Chemical Engineering	BC	B.Tech
Building Engg. & Construction Technology (Architecture)	BE	B.Arch.
Bio Medical Engineering	BM	B.Tech.
Bachelor of Pharmacy	BP	B.Pharm
Bio-Technology	BT	B.Tech.
Chemical & Alcohol Technology	CA	B.Tech.
Civil Engineering	CE	B.Tech.
Chemical Engineering	CH	B.Tech.
Computer Science	CO	B.Tech.
Computer Science & Engineering	CS	B.Tech.
Computer Science & Information Technology	CSI	B.Tech.
Electronics & Communication Engineering	EC	B.Tech.
Electrical Engineering	EE	B.Tech.
Electronics & Instrumentation Engineering	EI	B.Tech.
Electronics Engineering	EL	B.Tech.
Electrical & Electronics Engineering	EN	B.Tech.
Electronics & Telecomm Engineering	ET	B.Tech.
Electronics Instrumentation & Control	EX	B.Tech.
Environmental Engineering	EV	B.Tech.
Electronics & Computer Engineering	ECZ	B.Tech.
Electrical & Computer Engineering	EZ	B.Tech.
Fashion & Apparel Design	FD	B.FAD
Food Technology	FT	B.Tech.
Hotel Management	HM	BHMCT
Instrumentation & Control	IC	B.Tech.
Interior Design (Architecture )	ID	B.Arch
Instrumentation Engineering	IN	B.Tech.
Industrial Production Engg.	IP	B.Tech.
Information Technology	IT	B.Tech.
Leather Technology	LT	B.Tech.
Mechanical Engineering	ME	B.Tech.
Manufacturing Technology	MF	B.Tech.
Man Made Fiber Technology	MM	B.Tech.

Marine Engineering	MR	B.Tech.
Material & Metallurgical Engineering	MST	B.Tech.
Metallurgical Engineering	MT	B.Tech.
Mechanical & Industrial Engineering	MX	B.Tech.
Oil Technology	OT	B.Tech.
Production Engineering	PE	B.Tech.
Planning (Architecture)	PA	B.Arch.
Production & Industrial Engineering	PI	B.Tech.
Plastic Technology	PL	B.Tech.
Paint Technology	PT	B.Tech.
Textile Chemistry	TC	B.Tech.
Textile Technology	TT	B.Tech.
Textile Engineering	TX	B.Tech.
Fine Arts	FA	BFA

**(ii) LIST OF BRANCHES OF MBA & MCA COURSES**

<b>NAME OF BRANCHES</b>	<b>BRANCH CODE</b>	<b>STREAM</b>
Master of Business Administration (MBA)	M1	MBA
Master of Business Administration _Business Economics	M2	MBA
Master of Business Administration _Finance & Control	M3	MBA
Master of Business Administration _Tourism Management	M4	MBA
Master of Business Administration _International Business (IB)	M5	MBA
Master of Business Administration _Financial Management (FM)	M6	MBA
Master of Business Administration _Agri. Business	M17	MBA
Master of Business Administration _Marketing	M20	MBA
Master of Business Administration _E-Commerce	M21	MBA
Master of Business Administration _Human Research & Development	M22	MBA
Master of Computer Applications	MCA	MCA

**List of Institutions/Branches/Intake of UG & PG Courses**

Please see the Website: <http://www.upsee.nic.in> or <https://aktu.ac.in>

**CERTIFICATE – 1 (प्रमाण पत्र-1)****अनुसूचित जाति / जनजाति (UPSC/UPST/GDSC/GDST)**

(अभ्यर्थी के जन्म जिले के जिला मजिस्ट्रेट / प्रथम श्रेणी मजिस्ट्रेट द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0 ..... पुत्र/पुत्री श्री .....  
 निवासी गाँव/शहर ..... तहसील ..... जिला .....  
 प्रदेश ..... का जन्म ..... जाति में हुआ था और यह जाति अनुसूचित जाति/जनजाति  
 आदेश (संशोधन) एक्ट 1956 के अन्तर्गत भारत सरकार/उत्तर प्रदेश शासन .....  
 सरकार द्वारा मान्य अनुसूचित जाति/जनजाति है।

अभ्यर्थी के हस्ताक्षर

दिनांक

स्थान

हस्ताक्षर

नाम

मोहर

जिला अधिकारी / अतिरिक्त जिला अधिकारी /

सिटी मजिस्ट्रेट / परगना मजिस्ट्रेट / तहसीलदार

Note: Proforma of certificate shall be changed according to latest Govt. order.

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## CERTIFICATE – 2 (प्रमाण पत्र-2)

### उत्तर प्रदेश के अन्य पिछड़े वर्ग के लिए जाति प्रमाण पत्र का प्रपत्र (UPBC/GDBC)

यह प्रमाणित किया जाता है कि श्री/श्रीमती /कुमारी ..... सुपुत्र/सुपुत्री  
श्री .....निवासी ग्राम .....  
तहसील ..... नगर ..... जिला ..... उत्तर प्रदेश राज्य की  
..... पिछडी जाति के व्यक्ति हैं। यह जाति उत्तर प्रदेश लोक सेवा अनुसूचित जातियों ।  
अनुसूचित जनजातियों तथा पिछडे वर्गों के लिए आरक्षण अधिनियम, 1994 की अनुसूची – 1 के अन्तर्गत  
मान्यता प्राप्त है।

यह भी प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी ..... उक्त  
अधिनियम 1994 की अनुसूची –2 (अधिसूचना संख्या –22/16/92–का 02/1995 टी0 सी0 दिनांक  
8 दिसम्बर, 1995 द्वारा यथा संशोधित) से आच्छादित नहीं है।

श्री/श्रीमती/कुमारी ..... तथा अथवा उनका परिवार उत्तर प्रदेश के  
ग्राम ..... श्री/श्रीमती/कुमारी ..... नगर .....  
जिला ..... में सामान्यतया रहता है।

अभ्यर्थी के हस्ताक्षर

हस्ताक्षर

दिनांक

नाम

स्थान

मोहर

जिला अधिकारी / अतिरिक्त जिला अधिकारी /

सिटी मजिस्ट्रेट / परगना मजिस्ट्रेट / तहसीलदार

नोट– अभ्यर्थी ध्यान दें कि उ0प्र0 के अन्य पिछड़े वर्ग के लिए जाति प्रमाण अप्रैल 01, 2017 के पश्चात का बना हुआ होना  
आवश्यक है क्योंकि कीमीलेयर के अन्तर्गत आने वाले अभ्यर्थियों को आरक्षण का लाभ अनुमन्य नहीं है।

### CERTIFICATE – 3 (प्रमाण पत्र-3)

उत्तर प्रदेश के मूल/सामान्य निवासी के पुत्र/पुत्री (UPGD/GDSC/GDST/GDBC)  
(उस जिले के अधिकारी द्वारा प्रमाणित जिस जिले के माता/पिता निवासी है)

यह प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के पिता/माता का नाम) .....  
पिता/माता श्री/कु0(अभ्यर्थी का नाम)..... उत्तर प्रदेश के  
गाँव/शहर ..... तहसील ..... जिला ..... के मूल  
निवासी हैं तथा श्री/कु0 (अभ्यर्थी का नाम) ..... अपने पिता/माता पर  
पूर्णतया आश्रित हैं। उक्त पते पर श्री/कु0 (अभ्यर्थी का नाम) ..... के  
माता/पिता सामान्यतः निवास करते हैं।

दिनांक  
स्थान

हस्ताक्षर जिला मजिस्ट्रेट  
पूरा नाम  
पदनाम  
मुहर (जिला मजिस्ट्रेट की सील)

जिला मजिस्ट्रेट अथवा जिला मजिस्ट्रेट द्वारा अधिकृत अपर जिला मजिस्ट्रेट/सब डिवीजन मजिस्ट्रेट द्वारा  
प्रमाण पत्र ही मान्य होंगे जो शा0आ0 सं0-157/तीन -2003-77(II)/83 दिनांक 18 फरवरी, 2003 के  
अधीन जारी किया जायेगा।

नोट- प्रमाण पत्र-3 अभ्यर्थी के माता/पिता का बना होना चाहिए क्योंकि अभ्यर्थी जिन्होंने अर्हकारी परीक्षा  
उत्तर प्रदेश के बाहर स्थित किसी विद्यालय से उत्तीर्ण की है परन्तु उनके माता/पिता उत्तर प्रदेश के  
मूल/स्थायी निवास हैं परीक्षा में बैठने के पात्र हैं।

### CERTIFICATE – 4 (प्रमाण पत्र-4) (Sub-Category UPPF)

उत्तर प्रदेश लोक सेवा (शारीरिक रूप से विकलांग, स्वतंत्रता संग्राम सेनानी के आश्रितों और भूतपूर्व  
सैनिकों के लिए आरक्षण) अधिनियम, 1993 के अनुसार स्वतंत्रता संग्राम सेनानी के आश्रित के प्रमाण पत्र  
का प्रपत्र

प्रमाणित किया जाता है कि श्री/श्रीमती (स्वतंत्रता संग्राम सेनानी का नाम) .....  
निवासी ग्राम ..... तहसील ..... नगर .....  
जिला ..... उत्तर प्रदेश लोक सेवा (शारीरिक रूप से विकलांग, स्वतंत्रता संग्राम सेनानी  
के आश्रितों और भूतपूर्व सैनिकों के लिए आरक्षण) अधिनियम 1993 के अनुसार स्वतंत्रता संग्राम सेनानी हैं  
और श्री/श्रीमती/कु0(आश्रित अभ्यर्थी का नाम) .....  
पुत्र/पुत्री/पौत्र/अविवाहित पौत्री उपरांकित अधिनियम, 1993 के ही प्रावधानों के अनुसार उक्त  
श्री/श्रीमती (स्वतंत्रता संग्राम सेनानी) ..... के आश्रित हैं।

दिनांक  
स्थान

हस्ताक्षर  
पूरा नाम एवं पदनाम  
मुहर (जिला मजिस्ट्रेट की सील)

Note: Proforma of certificate may be changed according to latest Govt. order.

### CERTIFICATE – 5 (प्रमाण पत्र-5)

उत्तर प्रदेश/सेना दल (Sub-Category UPAF)

(अंतिम यूनिट के आफिसर कमान्डिंग/जिला सैनिक कल्याण बोर्ड द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के पिता अथवा माता का नाम) .....  
निवासी गाँव/शहर ..... तहसील ..... जिला .....  
.उत्तर प्रदेश, के दिनांक .....को सेवा निवृत्त (Superannuated) युद्ध में मारे गये/अपंग हो  
गये/उत्तर प्रदेश में वर्तमान में तैनात है। वे भारतीय थलसेना/जलसेना/वायुसेना के स्थान .....  
..... दिनांक..... से दिनांक ..... तक कार्यरत थे/हैं।

दिनांक  
स्थान

यूनिट कमान्डिंग आफिसर के हस्ताक्षर  
नाम  
मोहर

(जिला मजिस्ट्रेट द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी) ..... निवासी .....  
.उत्तर प्रदेश गाँव/शहर ..... तहसील ..... जिला ..... उपरोक्त सेना  
दल के सेवा निवृत्त (Superannuated) युद्ध में मारे गये या अपंग हो गये कर्मचारी जो उत्तर प्रदेश के  
स्थायी निवासी हैं/थे, के पुत्र/पुत्री हैं अथवा प्रवेश परीक्षा की तिथि ( अप्रैल 16/22 /23 अप्रैल, 2017)  
को उत्तर प्रदेश भारतीय थलसेना/जल सेना/वायुसेना में कार्यरत थे/हैं।

दिनांक  
स्थान

हस्ताक्षर  
नाम  
मोहर

### CERTIFICATE – 6 (प्रमाण पत्र-6) (Sub-Category UPHC)

शारीरिक विकलांग के अधिमान के लिए प्रमाण पत्र (मुख्य चिकित्सा अधिकारी द्वारा प्रमाणित)

- 1- यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी) .....पुत्र/पुत्री  
श्री (पिता का नाम) .....नीचे लिखे कारणों से शारीरिक रूप से विकलांग  
हैं।  
(केवल मुख्य चिकित्सा अधिकारी ही कारण लिखें).....
2. अभ्यर्थी की उपरोक्त विकलांगता को निम्न प्रकार की विकलांगता की श्रेणी में रखा जा सकता है।  
(कृपया ✓ का निशान लगायें)

Type - I: Minimum 40% permanent Visual impairment	
Type-II: Minimum 40% permanent Locomoter disability	
Type-III: Minimum 40% permanent Speech Hearing impairment	

- 3 - यह भी प्रमाणित किया जाता है कि उपरोक्त विकलांग स्थिति अभ्यर्थी के इन्जीनियरिंग शिक्षा प्राप्त करने में बाधक नहीं होगी।

अभ्यर्थी के हस्ताक्षर  
नाम  
दिनांक

चिकित्साधिकारी के हस्ताक्षर  
नाम  
मुहर

### CERTIFICATE – 7 (प्रमाण पत्र-7)

उत्तर प्रदेश ग्रामीण क्षेत्र के लिये अधिमान (UPGE)

(कालेज के प्रधानाचार्य द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी) ..... ने .....  
..... कालेज गाँव ..... से इण्टरमीडिएट की शिक्षा प्राप्त की। यह  
कालेज तहसील ..... जिला ..... उत्तर प्रदेश के ग्रामीण क्षेत्र में  
स्थित हैं तथा ग्राम पंचायत के कार्य क्षेत्र के सीमा के अन्दर है और यह क्षेत्र औद्योगिक विकसित क्षेत्र नहीं  
है।

दिनांक

हस्ताक्षर

स्थान

नाम

मुहर

(जिला विद्यालय निरीक्षक एवं जिला मजिस्ट्रेट द्वारा प्रमाणित)

प्रधानाचार्य द्वारा दिया गया कालेज की स्थिति से संबंध उपरोक्त वक्तव्य प्रमाणित किया जाता है।

दिनांक

हस्ताक्षर जिला विद्यालय निरीक्षक

स्थान

नाम

मुहर

दिनांक

प्रति हस्ताक्षरित जिला मजिस्ट्रेट

स्थान

नाम

मुहर

### CERTIFICATE – 8 (प्रमाण पत्र-8)

#### CHARACTER CERTIFICATE FROM THE HEAD OF THE INSTITUTION LAST ATTESTED

This is to certify that Sri / Km. \_\_\_\_\_  
has been a bonafide student of \_\_\_\_\_  
from \_\_\_\_\_ to \_\_\_\_\_ and  
has passes / appeared at the \_\_\_\_\_  
examination in the year \_\_\_\_\_

#### Proctorial reports:

1. Has he / she involved himself / herself if any act of indiscipline ? Yes / No
2. Has he / she been warned, Fined or punished for any act of indiscipline? Yes / No
3. Has he / she been restricted or expelled from Hostel of College for any reason? Yes/ No
4. Has he / she been involved in any act of indisiple outside the College campus like  
group clashes or fraction fights etc. Yes/ No
5. Has he / she been addicted to drugs or intoxicants? Yes/ No

**General remarks (Please state your assessment of the student)**

**Date :**

**Signature** \_\_\_\_\_

**Name** \_\_\_\_\_

**Designation** \_\_\_\_\_

## CERTIFICATE – 9 (प्रमाण पत्र-9)

### \* FORMAT FOR MEDICAL CERTIFICATE

(To be obtained from a Chief Medical Officer or Medical Officer of a participating U.P. State Funded Engg. Institute)

This certificate has to be submitted at the time of admission in the college allotted.

Name of Candidate:		Age:		Sex:		
UPSEE-2017 Roll No.:		Category:		Subcategory & Weighatge:		
State Rank Position:		Father's Name: ( To be filled in by the Candidate )				
L.T.	M.I.	VISION	Colour Vision:			
Height	Weight		Chest	Abdomen	Without glass: With glass:	
History		Operation	Kockh's	Colics	B.P.	
		Seizures	Asthma	Piles	Diabetes	
E X A M I N A T I O N	Pulse		Tonsil	DNS	Hernia	
	Pallor		L.Nodes	CSOM	Hydrocele	
	Cardiovascular		CNS			
	Respiratory		GIT			
Genitourinary		Others				
Is the candidate physically handicapped/Disabled:		<input type="checkbox"/>	(Please tick) Yes / No			
If yes, type of handicap/disability: (Please tick ✓ the type of handicap/disability)		<input type="checkbox"/>	Type -I: Minimum 40% permanent Visual impairment			
		<input type="checkbox"/>	Type-II: Minimum 40% permanent Locomoter disability			
		<input type="checkbox"/>	e-III: Minimum 40% permanent speech and Hearing impairment			
Any other finding:						
Certified that the candidate is physically fit/unfit/temporally disqualified to pursue engineering studies						
Signature of Candidate			Signature of the issuing Medical Officer ( with Official stamp)			

## CERTIFICATE – 10 (प्रमाण पत्र-10)

### UNDERTAKING BY CANDIDATE FOR MEDICAL FITNESS

I certify that I have no such physical handicap/disability which would hinder the pursuit of studies in the courses in which I am seeking admission. If at stage it is found that I have a physical handicap/ disability which would hinder the pursuit of studies in the courses in which I am seeking admission then my admission will be liable to be cancelled. I will produce medical fitness certificate from a C.M.O./C.M.S. at the time of my joining the institution allotted by UPSEE-2017 counselling.

Dated:

Counter Signed by Father / Guardian

Signature of the Candidate

**CERTIFICATE – 11 (प्रमाण पत्र-11)**

**अखिल भारतीय सेवा के उ0प्र0 कैंडर के अधिकारियों/कर्मचारियों हेतु**

प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के माता/पिता का नाम) .....  
पदनाम .....विभाग का नाम ..... कैंडर संख्या .....  
अखिल भारतीय सेवा के उ0प्र0 कैंडर के अधिकारी/कर्मचारी है तथा वर्तमान में इस कार्यालय में कार्यरत  
हैं। यह प्रमाण पत्र इनके पुत्र/पुत्री (अभ्यर्थी का नाम) .....को उ0प्र0  
प्राविधिक विश्वविद्यालय, लखनऊ के अन्तर्गत प्रवेश हेतु प्रदान किया जाता है।

दिनांक: .....

विभागाध्यक्ष/कार्यालयाध्यक्ष का हस्ताक्षर  
नाम एवं पदनाम  
मुहर

**CERTIFICATE-12 (प्रमाण पत्र-12)  
(Income Certificate)**

क्षेत्रीय भूलेख निरीक्षक तथा लेखपाल की जांच रिपोर्ट के आधार पर प्रमाणित किया जाता है कि  
----- (आवेदक के अभिभावक/माता/पिता का नाम) सुपुत्र  
----- निवासी/ग्राम ----- परगना  
----- तहसील ----- नगर ----- जिला  
----- राज्य ----- के स्वयं की मासिक आय रूपया  
----- तथा वार्षिक आय रूपया ----- है।  
लेखपाल की रिपोर्ट के अनुसार आय का स्रोत ----- है।

स्थान:  
दिनांक:

तहसीलदार  
मुहर

नोट- अभ्यर्थी ध्यान दें कि उ0प्र0 के आर्थिक रूप से कमजोर अभ्यर्थियों के लिए प्रमाण पत्र अप्रैल 01,  
2017 के पश्चात का बना हुआ होना आवश्यक है।

## Appendix - E

The UPSEE-2017 will be held at various cities as given in the following tables. The candidates are advised to give three choices of examination cities.

- (i) **Paper 1, Paper 2, Paper 3 and Paper 4** are **OMR based Tests** and shall be held in various cities given in the **Examination City Table-I**
- (ii) **Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10, and Paper 11** are **Computer based Tests** and shall be held in various cities given in the **Examination City Table-II**.

**Examination City Table-I**  
**(OMR Based Test)**  
**[For Paper 1, Paper 2, Paper 3 and Paper 4]**

<p><b>Cities in State of U.P.</b></p> <ol style="list-style-type: none"> <li>1. Agra</li> <li>2. Firozabad</li> <li>3. Mathura</li> <li>4. Aligarh</li> <li>5. Allahabad</li> <li>6. Azamgarh</li> <li>7. Ballia</li> <li>8. Mau</li> <li>9. Bareilly</li> <li>10. Shahjahanpur</li> <li>11. Basti</li> <li>12. Banda</li> <li>13. Gonda</li> <li>14. Ambedkar Nagar</li> <li>15. Barabanki</li> <li>16. Faizabad</li> </ol>	<ol style="list-style-type: none"> <li>17. Sultanpur</li> <li>18. Deoria</li> <li>19. Gorakhpur</li> <li>20. Kushinagar</li> <li>21. Jalaun (Orai)</li> <li>22. Jhansi</li> <li>23. Etawah</li> <li>24. Kanpur Nagar</li> <li>25. Kanpur Dehat</li> <li>26. Lakhimpur Kheri</li> <li>27. Lucknow</li> <li>28. Raebareli</li> <li>29. Sitapur</li> <li>30. Bulandshahr</li> <li>31. Gautam Buddha Nagar (Noida/Greater Noida)</li> <li>32. Ghaziabad</li> <li>33. Meerut</li> </ol>	<ol style="list-style-type: none"> <li>34. Mirzapur</li> <li>35. Bijnor</li> <li>36. Moradabad</li> <li>37. Muzaffarnagar</li> <li>38. Saharanpur</li> <li>39. Ghazipur</li> <li>40. Jaunpur</li> <li>41. Varanasi</li> </ol> <p><b>Cities in Other States</b></p> <ol style="list-style-type: none"> <li>42. Bhopal</li> <li>43. Dehradun</li> <li>44. Delhi</li> <li>45. Patna</li> <li>46. Ranchi</li> <li>47. Jaipur</li> <li>48. Kolkata</li> <li>49. Mumbai</li> </ol>
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**Examination City Table-II**  
**(Computer Based Test)**  
**[For Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10, and Paper 11]**

<ol style="list-style-type: none"> <li>1. Agra</li> <li>2. Aligarh</li> <li>3. Allahabad</li> <li>4. Ambedkar nagar</li> <li>5. Bareilly</li> <li>6. Bijnaur</li> </ol>	<ol style="list-style-type: none"> <li>7. Ghaziabad</li> <li>8. Gorakhpur</li> <li>9. Gautam Buddha Nagar (Noida / Greater Noida)</li> <li>10. Jhansi</li> <li>11. Kanpur</li> </ol>	<ol style="list-style-type: none"> <li>12. Lucknow</li> <li>13. Mathura</li> <li>14. Meerut</li> <li>15. Moradabad</li> <li>16. Muzaffarnagar</li> <li>17. Varanasi</li> </ol>
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- (iii) **Candidates are advised to be very careful while giving their options for city of examination centre.** Candidates are advised to choose cities of examination on the basis of the paper he/she has opted from the respective tables i.e. **Examination City Table-I** and/or **Examination City Table-II**.
- (iv) In case, candidate has opted papers in such a manner that some of these papers are the OMR based Tests (**Paper 1, Paper 2, Paper 3 and Paper 4**) and some of these papers are Computer based Tests (**Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10 and Paper 11**), the choices for city of examination must be chosen from the **Examination City Table-II only**.

For example,

- (a) If a candidate opts for **Paper 1 only**, he/she should refer to the **Examination City Table-I**.
  - (b) If a candidate opts for **Paper 5 only**, he/she should refer to the **Examination City Table-II**.
  - (c) **If a** candidate opts for two papers **Paper 1 and Paper 5**, he/ she should refer to the **Examination City Table-II**.
- (v) If any candidate chooses cities of examination where the examination for the paper opted is not being conducted, he/she shall be allotted an examination city from the respective list and same shall be binding upon the candidate.
- (vi) Certain examination cities may be cancelled if sufficient number of candidates does not opt for that city. Request for change of city of examination shall not be entertained under any circumstances.



अनुसूचित जाति, अनुसूचित जनजाति एवं ओबीसी जातियों के नाम \*

**The list of SC/ST/OBC categories shall be as notified by the Government of Uttar Pradesh as applicable on the day of counselling / admission.**

**The benefit of reserved categories/ subcategories/ rural weightage shall be admissible only upon submission of the required certificate in the format as given in Appendix-D.**

## IMPORTANT DATES

Opening of the link for Filling and Submission of <b>On-Line</b> Application Form form through the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a>	January 18,2017 11.00 AM
Last Date for Filling and submitting the On-Line Application Form	February 28,2017 5.00 PM
On-Line Partial Correction of filled and submitted On Line Application form through the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a>	From March 27,2017 11.00 AM to March 29,2017 5.00 PM
Opening of Link for Downloading of the Admit Card from the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a>	From April 07,2017,11.00 AM till date of examination
Dates of Examination (as applicable)	April 16,2017 April 22,2017 and April 23,2017 for Various Courses
Declaration of UPSEE-2017 Result	On or before May 30, 2017
<p>Note:</p> <ul style="list-style-type: none"> <li>The Application Form can be filled On-Line only through the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a></li> <li>The Confirmation page printed after submission of On-Line Application Form need to be preserved by the candidates. Print-out/ hard copy/ photocopy of Confirmation page or any other document need not be sent to the University.</li> <li>The Admit Card shall be available to the candidates only through the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a></li> </ul>	

## SCHEDULE OF EXAMINATION

Date of Examination	Paper Code	Subjects	Timing (Total Time Period)
16 <sup>th</sup> April, 2017 (Sunday)	Paper 1	Physics, Chemistry and Mathematics	10:00 AM to 1:00 PM (3 Hours)
	Paper 2	Physics, Chemistry and Biology	
	Paper 3	AG-I, AG-II and AG-III	
	Paper 4	Aptitude Test for Architecture	2.30 PM to 5:00 PM (2 Hours 30 Minutes)
22 <sup>nd</sup> April, 2017 (Saturday)	Paper 5	Aptitude test for General Awareness (BHMCT/BFAD/BFA)	10:00 AM to 11:30 AM (1 Hour 30 Minutes)
	Paper 6	Aptitude Test for Diploma Holders in Engg.	2:30 PM to 4:00 PM (1 Hour 30 Minutes)
	Paper 7	Aptitude Test for Diploma Holders in Pharmacy	
	Paper 8	Aptitude Test for B.Sc. Graduates	
23 <sup>th</sup> April, 2017 (Sunday)	Paper 09	Aptitude Test for MBA	9:00 AM – 11:00 AM (2 Hours )
	Paper 10	Aptitude Test for MCA	1:00 PM – 3:00 PM (2 Hours )
	Paper 11	Aptitude Test for 2 <sup>nd</sup> Year MCA (Lateral Entry)	4:00 PM –6:00 PM (2 Hours )

**U.P. STATE ENTRANCE EXAMINATION**  
**Dr. A. P. J. Abdul Kalam Technical University, Uttar Pradesh**  
(Formerly U.P. Technical University, Lucknow)

Sector - 11, Jankipuram Extension, Lucknow

**INFORMATION BROCHURE**  
**UPSEE – 2018**  
[ENGLISH VERSION]

**For Admission to**

**First Year of B. Tech./B.Arch./B.Des./B.Pharm./  
BHMCT/BFAD/BFA/MBA/MBA(Integrated)  
/MCA/MCA (Integrated)**

**And**

**2<sup>nd</sup> Year of B. Tech./B.Pharm./MCA (Lateral Entry)**

***Opening Date for filling of On-Line Application:***  
**January 23, 2018 (11:00 AM)**

***Last Date for Submission of Application:***  
**March 15, 2018 (05:00 PM)**

***Date of Examinations:***  
**April 29, 2018 (Sunday)**  
**and**  
**May 05, 2018 (Saturday) & May 06, 2018 (Sunday)**

**Website**

**<http://www.upsee.nic.in>**

**Help Desk**

Toll free Number : 1800-180-0161

E-Mail : [upsee2018helpdesk@aktu.ac.in](mailto:upsee2018helpdesk@aktu.ac.in)

**Contact Address:**

Registrar

**Dr A.P.J. Abdul Kalam Technical University, Uttar Pradesh**

Sec-11, Jankipuram Extension, Lucknow – 226 031 (U.P) India

Phone: 0522 – 2771079, Fax: 0522 – 2732185

E-Mail: [registrar@aktu.ac.in](mailto:registrar@aktu.ac.in)

Website: <https://aktu.ac.in>

**For Admission to First Year of B. Tech./B.Tech.(Biotechnology)/B.Tech.(Agriculture Engg.) / B.Arch. / B.Des. / B.Pharm. /BHMCT/BFAD/BFA/ MBA/MBA(Integrated)/MCA/MCA(Integrated) and 2<sup>nd</sup> Year (Lateral Entry) of B. Tech./B.Pharm./MCA**

1. **Application to the UPSEE-2018 can be made On-Line only.** Candidates are required to fill the Application Form On-Line through the website <http://www.upsee.nic.in>.
2. On-Line application form through the website <http://www.upsee.nic.in> can be submitted from **23<sup>rd</sup> January 2018 (11:00 AM) to 15<sup>th</sup> March 2018 (05:00PM)**
3. Candidates are advised to read this Information Brochure carefully, check their eligibility and applicable reservation category etc. before filling and submitting the application form.
4. This Entrance Examination is open to the candidates who have passed the qualifying examination from any institution located in U.P. or whose parents are domicile of U.P subject to the eligibility conditions given in this Information Brochure. If the candidate has passed qualifying examination from outside U.P., he/she has to produce domicile certificate of his/her parents (**Father OR Mother only**) at the time of verification of the document.
5. **This Entrance Examination is also open to the candidates who have passed the qualifying examination from any institution located outside U.P. and whose parents (both Father and Mother) are not domicile of U.P subject to the eligibility conditions given in this Information Brochure.**
6. Please note that candidates do not need to send "Confirmation Page" printed after completion and submission of On-Line application form to the University. However, the Candidate should keep the printout of the Confirmation page for record. Candidates are also advised to note down the **Application Form Number** for any future correspondences.
7. The On-Line application to UPSEE-2018 can be filled and submitted as per clause **18**, clause **19**, clause **20** and clause **21** of the Information Brochure.
8. Candidates do not need to send hard copy / photo copy of any document, whatsoever, to the University at this stage.
9. **\*\*UP State Govt. has permitted 10% of the total sanctioned seats available for admission in first year in Technology / Architecture courses in private institutions affiliated to AKTU to be filled through merit of Non U.P. Domicile candidates without reservation subject to eligibility conditions given in this Information Brochure. Thus, 10% of the total sanctioned seats for admission in first year in Technology / Architecture courses in Private Institutions, affiliated to AKTU, shall be opened to the candidates whose parent belongs to the State other than Uttar Pradesh and has passed qualifying examination from an Institution located outside U.P. These seats shall be filled on the basis of UPSEE-2018 Merit.**
10. There is no age limit for admission to the courses covered in UPSEE-2018.
11. Accepting admission in any institution implies acceptance by the candidate and his/her parents or guardians with all the provisions given in this Information Brochure. Any change in the rules, regulations, fee and special conditions etc. of that institution shall mutatis mutandis apply to the admitted candidate.
12. Candidates filling the On-Line Application Form are required to upload scanned images of his/her latest color photograph and signature. Application forms having blurred photographs are liable to be rejected.
13. Candidates claiming advantage of reserved categories, subcategories, rural weightage etc. must be required to indicate in the Application Form and are not required to send any certificate to the University at this stage. These certificates, in original, will have to be produced at the time of Documents Verification alongwith one self attested copy of each one of them. The proforma of the certificates are given at the end of this Information Brochure at **Appendix-D**, which are subject to change even upto the date of admission, as per the orders of Govt. of Uttar Pradesh. **Note that the certificate no. 2 for OBC candidates will be entertained only if it is issued on or after 01.04.2018 (mandatory due to condition of creamy layer for OBC).**
14. Candidates who are due to appear for the qualifying examination or have appeared, but results are awaited, are also eligible to appear in the UPSEE-2018. However, the candidates in respect of whom, the result of the qualifying examination has not been declared till the date of the document verification, due to any reason whatsoever, **shall not be eligible** for admission **under any** circumstances.
15. The result of UPSEE-2018 declared by Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow shall be final. However, the candidate can get his/her answer sheets scrutinized on payment of Rs. 5000/- per paper within seven days of declaration of result. The application for scrutiny may be submitted to the Registrar, Dr. A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow (U.P.) 226031 in writing.

\*\* It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling.

16. If any document/declaration submitted by the candidate is found to be false at any stage, his/her admission shall be cancelled and he/she may be liable for prosecution under the law. In case of any legal dispute, the jurisdiction will be limited to Lucknow courts only.
17. The candidate must himself/ herself ensure about his/her eligibility to appear in the Entrance Examination. If a candidate, who is not eligible to appear in the examination, does so; he/ she will not have any claim whatsoever, for admission to any course through UPSEE-2018.
18. The Entrance Examination Fee for UPSEE-2018 is **Rs. 1300.00 for Male/Transgender candidates of General & OBC category and Rs. 650.00 for Female / Physically Handicapped candidates of all categories / SC/ST candidates.**
19. The number of Colleges / Institutions, courses and seats may increase or decrease upto the counselling dates.
20. If any of the qualifying examination Board/University awards only letter grades without providing an equivalent percentage of mark on the grade sheet, the candidate should obtain a certificate from the Board/ University specifying equivalent marks and submit it at the time of document verification. In case, such a certificate is not provided by the candidate, the decision of the Central Admission Board (CAB) regarding his / her eligibility shall be final.
21. The allotment of seat through counselling will be carried out strictly in accordance with the UPSEE-2018 merit of the candidate, subject to the order of preference given for the seats and availability of seat in the category. **Once the seat is allotted to the candidate, no change in the Institution / Branch is admissible.**
22. **The fee paid at the time of counselling by the candidate, after the allotment of seat will be forfeited** and will not be refunded under any circumstances, even if the candidate does not report for the admission to the allotted institutions.
23. **No tuition fee shall be charged from eligible SC/ST candidates** by the institutions affiliated to AKTU, Lucknow at the time of granting admission as per U.P. Govt. order no. 37 Bha.Saa./26-03-04-4(77)/02 dated:18-06-04. A relaxation in the **tuition fee amount equal to tuition fee of Government Institutions** has been granted to OBC / General Category economically weaker students by the Govt. vide order no. 4136/solah-1-2008-135/2008 dated: 8-10-08 and 2991/solah-1-2008-14(34)/2008 dated: 16-09-08. The candidate will have to produce the required prescribed certificate / documents in the institution as enforced vide G.O. no. 6048/solah-1-2008-1(17)/2008 dated 06-01-08. **Govt. orders released time to time shall be applicable.** The institutions will charge tuition fee after granting this relaxation to the eligible candidates as per the current fee structure determined by the fee determination committee available at website [www.afrcup.in](http://www.afrcup.in).
24. This Information Brochure is in both English and Hindi languages. In case of any discrepancy, the **English version shall be final** for all purposes.
25. All information in connection with UPSEE-2018 shall be made through University Website <http://www.upsee.nic.in> or <https://aktu.ac.in>. The candidates are advised to refer to this website regularly/frequently failing which AKTU will not be responsible for any loss due to the lack of communication.
26. In case of any deficiency in application form, it is likely to be rejected and sole responsibility of its consequences will lie on the candidate and representation in this regard shall not be entertained.
27. Abbreviations used:

<b>AKTU</b>	-	Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow
<b>AIU</b>	-	Association of Indian Universities
<b>UPSEE-2018</b>	-	Uttar Pradesh State Entrance Examination - 2018
<b>B. Tech.</b>	-	Bachelor of Technology
<b>B. Pharm.</b>	-	Bachelor of Pharmacy
<b>B. Arch.</b>	-	Bachelor of Architecture
<b>B. Des</b>	-	Bachelor of Design*
<b>BHMCT</b>	-	Bachelor of Hotel Management & Catering Technology
<b>BFAD</b>	-	Bachelor of Fashion & Apparel Design
<b>BFA</b>	-	Bachelor of Fine Arts
<b>MBA</b>	-	Master of Business Administration
<b>MCA</b>	-	Master of Computer Application
<b>SAT II</b>	-	Scholastic Assessment Test II

\* This Programme is currently offered by UP Institute of Design located in Noida Campus of Dr. APJ Abdul Kalam Technical University, Uttar Pradesh

**Note: UPSEE-2018 is being conducted for admission to all the Technical Institutions / Colleges affiliated to the AKTU, Lucknow. Admissions in some of the courses in the other Universities of U.P. are also done through UPSEE-2018.**

# UP STATE ENTRANCE EXAMINATION (UPSEE – 2018)

For Admission to First Year of B. Tech. / B.Tech. (Biotechnology)/ B.Tech. (Agriculture Engg.)/B.Des./B.Arch./B.Pharm./BHMCT/BFAD/BFA/MBA/MBA(Integrated) /MCA/MCA(Integrated)and 2<sup>nd</sup> Year (Lateral Entry) of B. Tech/B.Pharm./MCA

## 1. CENTRAL ADMISSION BOARD (CAB)

The entrance examination for degree level engineering institutions and other professional colleges has been assigned to Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow vide Govt. order no. 4299/सोलह-1-2017-14(54)/2012 dated 06-12-2017. The Govt. of Uttar Pradesh, Technical Education Department, has consented for the constitution of Central Admission Board (CAB) under the Chairmanship of the Vice Chancellor, Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow to supervise and control the State Entrance Examination herein after referred as UPSEE-2018 being conducted by Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow vide Govt. order no. 05/सोलह-1-2017-14(54)/2012 dated 16-01-2018. The CAB has absolute rights for conducting of UPSEE-2018, and to decide about modalities of admissions and allotment of seats. The jurisdiction of CAB extends to colleges / institutes affiliated to AKTU, Lucknow. The CAB is authorized to take every decision regarding conduct and admissions through UPSEE-2018.

## 2. MODE OF ADMISSION

### 2.1. ADMISSION TO FIRST YEAR

The Entrance Examination for admission to first year of the following courses offered at the Institutions affiliated to AKTU, Lucknow including other mentioned universities situated in territory of Uttar Pradesh for the academic year 2018-2019 shall be conducted by Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow.

- |   |                                       |
|---|---------------------------------------|
| (i) 4 years B.Tech./B.Tech.(Ag. Engg.) Course | (vii) 4 years BFAD Course             |
| (ii) 4 years B.Tech (Biotechnology) Course    | (viii) 4 years BFA Courses            |
| (iii) 4 years B.Pharm. Course                 | (ix) 2 years MBA Course               |
| (iv) 5 years B.Arch. Course                   | (x) 3 years MCA Course                |
| (v) 4 years B.Des. Course                     | (xi) 5 years MCA (Integrated) Course  |
| (vi) 4 years BHMCT Course                     | (xii) 5 years MBA (Integrated) Course |

### 2.2. DIRECT ADMISSION (LATERAL ENTRY) TO SECOND YEAR OF B.Tech./ B.Pharm./MCA

- (i)<sup>1</sup> The eligible candidates (Refer clause 3.3) seeking direct admission to second year of B.Tech. (for engineering diploma holders and B.Sc. graduates) or B.Pharm. (Only for pharmacy diploma holders) or MCA (for BCA, B.Sc (IT/ Computer Science) degree holders) in institutions affiliated to AKTU, Lucknow are required to submit the application forms by the last date. Such candidates are also required to appear in the specified paper of entrance examination.
- (ii) <sup>2</sup>Such seats are limited to a maximum of 20% of previous year sanctioned intake in institutions/ colleges for different courses at first year level.
- (iii) However for B.Tech. the students belonging to the B.Sc. stream shall be considered **ONLY AFTER** filling the seats in this category with students of Diploma stream.
- (iv) Direct admission to Second year shall **not** be made in B.Arch./BHMCT/BFAD/BFA/MBA/ Courses.

<sup>1</sup> As per AICTE Notifications F-11-140/2004-NRO/AICTE-33 dated 9-06-2004 & F.37-3/Legal/2007 dated 12.01.07 and U.P.Govt. Order no. 256/ Solah – 1 – 2007 – 1(01) / 2005 dated 14.02.07.

<sup>2</sup> Subject to change as per latest orders of Govt. of U.P. / AKTU upto the date of counselling.

- (v) The Candidate who have passed qualifying examination from other than Uttar Pradesh State and whose parents are not domicile of Uttar Pradesh State are not eligible for Direct admission to second year of B.Tech/B.Pharm/ and MCA (Lateral Entry).

## **2.2. SEATS UNDER DIFFERENT SCHEME IN FIRST YEAR**

- (i) Number of admissions in all courses offered at Institutions affiliated to AKTU, Lucknow, will be only through UPSEE-2018 after deducting the seats filled under clause 2.4.
- (ii) UP State Govt. has permitted 15% of total sanctioned seats available in Private Institutions to be filled by the Management quota /NRI candidates; and the same shall be filled up in accordance with the procedure prescribed in the Govt. orders. The remaining seats in various courses offered at all the Institutions affiliated to AKTU, Lucknow will be filled through UPSEE-2018 counselling.
- (iii) <sup>3</sup>UP State Govt. has permitted 10% of the total sanctioned seats available for admission in first year in Technology / Architecture courses in private institutions affiliated to AKTU to be filled through merit of Non U.P. Domicile candidates without reservation subject to eligibility conditions given in this Information Brochure. Thus, 10% of the total sanctioned seats for admission in first year in Technology / Architecture courses in Private Institutions, affiliated to AKTU, shall be opened to the candidates whose parent belongs to the State other than Uttar Pradesh and has passed qualifying examination from an Institution located outside U.P. These seats shall be filled on the basis of UPSEE-2018 Merit.
- (iv) Thus, for Government/ Government Aided/ Govt. Self Financed Institutes, 100% seats in all courses in first year will be filled by UPSEE-2018 qualified candidates.
- (v) For private colleges 85% seats in all the courses will be filled by UPSEE-2018 qualified candidates.

## **2.3. ADMISSION TO NON-RESIDENT INDIAN (NRI) CANDIDATES IN FIRST YEAR**

NRI candidates, who possess prescribed qualifications (clause 3.4), may get direct admission on 5% seats of total intake in Govt. / Govt. aided and Private Institutions having approval from AICTE for NRI seats on merit, subject to the latest instructions of Govt. of U.P. The detailed information will be published in the month of May 2018 in various newspapers and university website. The candidates, seeking for admission under this scheme, need not appear in UPSEE-2018. However applicants opting B.Arch. course under this category has to appear in an Aptitude Test on the day of counselling to be notified later.

## **2.4. ADMISSION TO KASHMIRI MIGRANTS IN FIRST YEAR**

Direct admission to Kashmiri Migrants in first year in each institute is to be made as per the latest instructions of AICTE and orders from U.P. Govt. Such admissions will be over and above the sanctioned intake and normally limited upto one admission per Institute affiliated to AKTU, Lucknow. The detailed information will be published in the month of May 2018 in various newspapers and University website <https://aktu.ac.in>. The candidates, opting for admission under this scheme, need not appear in UPSEE-2018.

**The B. Arch. course does not exist for such candidates.**

## **2.5. ADMISSION TO FOREIGN NATIONALS (FN) / PERSONS OF INDIAN ORIGIN (PIO) / CHILDREN OF INDIAN WORKERS IN GULF COUNTRIES (CIWGC)**

Under the approval of AICTE, identified institutions shall admit FN/PIO/CIWGC up to the extent sanctioned by AICTE as per the eligibility criteria (clause 3.5) and guidelines of the University. These supernumerary seats shall be exclusively meant for the FN/PIO/CIWGC students in undergraduate courses with the condition that under no circumstances a seat remained unfilled shall be allocated to candidates other than a FN/PIO/CIWGC. The candidates, opting for admission under this scheme, need not appear in UPSEE-2018.

**The B.Arch. course does not exist for such candidates.**

<sup>3</sup> It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling.

## 2.6. ADMISSION TO FEE WAIVER SEATS FOR ECONOMICALLY WEAKER MERITORIOUS STUDENTS

As per AICTE notification fee waiver seats for economically weaker meritorious candidates are also available in B.Tech./ B.Pharm./B.HMCT/B.FAD/BFA courses in all institutions affiliated to AKTU, Lucknow. No tuition fee will be charged from the candidates admitted against such seats. The fee waiver seats will be limited to maximum of 5% of the approved intake in the course, and will be over and above of the sanctioned intake. The economically weaker students must submit certificate no. 12 (Income Certificate) at the time of verification of documents.

**No Tuition Fee Waiver seats are available for B.Arch. Courses.**

## 3. ELIGIBILITY CRITERIA

The candidates must fulfill the eligibility criteria as given in clause 3.1/3.2/3.3 to appear in UPSEE-2018. However, the candidates appearing in the qualifying examinations are also eligible to appear, subject to the condition that they must fulfill the eligibility criteria as given in clause 3.1/3.2/3.3 at the time of counselling.

### 3.1. ELIGIBILITY TO APPEAR IN UPSEE-2018 FOR ADMISSION TO FIRST YEAR OF B.Tech. /B.Des./ B.Arch. / B. Pharm. / BHMCT / BFAD / BFA /MBA (Integrated) /MCA (Integrated)

- (i) The subject combination required in the qualifying examination (intermediate examination of U.P. Board or 10+2 level examination or its equivalent) for admission to first year of different courses shall be as follows:

Course	Compulsory Subjects	Anyone of the following Subjects
B. Tech/ B.Des/ MCA(Integrated)	Physics & Mathematics	Chemistry/ Bio-Technology / Biology / Technical Vocational subject
B. Tech.(Bio-Technology)	(i) Physics & (ii) Mathematics <b>OR</b> Biology	Chemistry/ Bio-Technology / Technical Vocational subject
B. Arch	Physics & Mathematics	Chemistry/ Computer Science/ Biology/ Engineering Drawing / Technical Vocational subject
B. Pharm.	Physics & Chemistry	Mathematics/ Bio-Technology/ Biology / Technical Vocational Subject
B. Tech. (Agriculture Engg.)	Agriculture discipline.*	
BHMCT/BFAD/BFA/ MBA(Integrated)	Any discipline.	

\* Please read point No. 3.1(vi).

- (ii) For admission to first year of B.Tech./B.Pharm./B.Des./MCA(Integrated), candidate must have clearly passed intermediate examination of U.P. Board or 10+2 level examination or its equivalent from any recognized Board / University **without grace** in required each compulsory subjects and one optional subject as given in clause 3.1 (i) and securing minimum 45% marks (40% marks for SC/ST Category candidates) **in aggregate** in required three subjects.
- (iii) For admission to first year of BHMCT/BFAD/BFA/MBA(Integrated), candidate must have clearly passed intermediate examination of U. P. Board or 10+2 level examination or its equivalent from any recognized Board / University and securing minimum 45% marks **without grace** (40% marks for SC/ST category candidates) **in aggregate**.
- (iv) For admission to first year of B. Arch., a candidate must have clearly passed intermediate examination of U. P. Board or 10 + 2 level examination or its equivalent from any recognized Board / University and securing (i) minimum 50% marks **in aggregate** and (ii) clearly passed **without grace**, each compulsory and optional subjects as given in clause 3.1(i).



- (v) A candidate possessing three years Diploma in Architecture (10+3) recognized by Central / State Govt., is also eligible for admission to first year of B. Arch. only, and provided the candidate has passed the Diploma examination securing minimum 50% marks **in aggregate without grace**. Such candidates will have to appear in the entrance examination for first year of B. Arch. Paper 4 (clause 4.3).
- (vi) For admission to first year of B.Tech. (Agriculture), candidate must have clearly passed intermediate examination of U. P. Board or 10+2 level examination or its equivalent from any recognized Board / University in agricultural subjects and secured minimum 45% marks **without grace** (40% marks for SC/ST category candidates) **in aggregate**. **All Eligible candidates for B. Tech. First year are also eligible for B. Tech. Agriculture.**
- (vii) All candidates who are eligible for admission in B. Tech. Courses are also eligible for B. Tech. (Agriculture Engineering) and B. Tech. (Biotechnology).

### 3.2. ELIGIBILITY TO APPEAR IN UPSEE-2018 FOR ADMISSION TO FIRST YEAR OF MBA/ MCA

- (i) For admission to first year of MBA in any institution affiliated to AKTU, Lucknow, a candidate must have passed Bachelors degree course of three years minimum duration from any recognized Indian University; or its equivalent, recognized by A.I.U securing minimum 50% (45% for SC/ST) marks **in aggregate**.
- (ii) For admission to first year of MCA in any institution affiliated to AKTU, Lucknow, a candidate must have passed Bachelors degree course of three years minimum duration from any recognized Indian University; or its equivalent, recognized by A.I.U. securing minimum 50% (45% for SC/ST) marks **in aggregate**. Candidate must have passed Mathematics at 10+2 level or Graduation level.
- (iii) For admission to first year of MBA/MCA in other Universities of U.P., a candidate must have passed Bachelor degree course with the eligibility conditions given in following table subject to the confirmation received from the concerned University:

Sl. No.	Name of University/ Institutions	Course(s)	Minimum pass marks at three years Graduation level	Remarks/ Compulsory conditions
1	C.S.J.M. Kanpur University, Kanpur	MBA MBA-Finance & Control(M3) MBA-Business Economic(M2) MBA-Tourism Management(M4)	As per AICTE norms.	
		MCA	As per AICTE norms.	Maths at 10+2 or Graduation level.
2	Dr. R. M. L. Avadh University, Faizabad	MBA	Graduate with 50% marks	
		MCA	Graduate	Maths at 10+2 or Graduation level.

3	M.G. Kashi Vidyapith University, Varanasi	MBA	Graduate	
		MCA	Graduate with 45% marks	Maths at 10+2 or Graduation level.
4	V.B.S. Purvanchal University, Jaunpur	MBA (M1) MBA Agri. Business (M17) MBA E-Commerce (M21) MBA Business Economics (M2) MBA Finance & Control (M3) MBA Human Research & Development (M22)	As per UPSEE norms.	
		MCA	As per UPSEE norms.	Maths at 10+2 or Graduation level
5	M.J.P. Rohilkhand University, Bareilly	MBA (General) (M1) MBA (Marketing) (M20)	Graduation 50%	
		MCA	As per UPSEE norms	Maths at 10+2 or Graduation level.
6	D.D.U. Gorakhpur University, Gorakhpur	MBA	Minimum 40% marks at Graduation level	
7	Institute of Business Studies, Ch. Charan Singh University, Meerut	MBA	Graduate	
	Sir Chhotu Ram Institute of Engineering & Technology, Ch. Charan Singh Campus, Meerut	MBA (M1) MBA-IB (M5)	Graduate	
		MCA	Graduate	Maths at 10+2 or Graduation level.
8	Dr. B.R. Ambedkar University, Agra	MBA	As per UPSEE	
		MCA	As per UPSEE	Maths at 10+2 or Graduation level.
9	Bundelkhand University, Jhansi	MBA MBA (International Business)(M5) MBA (Finance Management)(M6) MBA (Tourism Management)(M4)	50%	
		MCA	50% in B.Sc.(Maths/Stats)/BCA/ B.Sc.IT /B.Sc.(CS)/B.Sc.(IT).Maths at 10+2 level is compulsory	
10	Uttar Pradesh Vikalanga Uddhar Dr. Shakuntala Misra Vishwavidyalaya, Lucknow	MBA	Graduate	
11	Khawaja Moinuddin Chishti Urdu, Arabi-Farsi University, Lucknow.	MBA	Minimum 50% marks (45% for SC/ST) at Graduation Level	

### **3.3. ELIGIBILITY TO APPEAR IN UPSEE-2018 FOR ADMISSION TO SECOND YEAR (LATERAL ENTRY) of B. Tech./B. Pharm./MCA**

- (i) Direct Admission in second year (Lateral Entry) of B.Arch./BHMCT/BFAD/BFA/MBA courses is **not permissible**.
- (ii) Lateral entry in “B. Tech. for Engineering Diploma holders or B.Sc. Graduates with Mathematics as one of the subject at XII standard”/ “B. Pharm. for Diploma holders” in third semester (second year)/ “MCA for Graduates of BCA or B.Sc.-Information Technology/Computer Science in third semester (second year)”, is open **only in** the institutions affiliated to AKTU, Lucknow. Candidate who have passed qualifying exam from other than Uttar Pradesh State and whose parents are not domicile of UP State are not eligible for Direct admission to second year of B.Tech/ B.Pharm/ MCA (Lateral Entry).
- (iii) Candidates who have passed ‘three years Engineering Diploma from an Institution located in U.P. with minimum 45% marks (40% for SC/ST) OR ‘whose parents (Father or mother) are domicile of Uttar Pradesh’ and he/she has passed three years Engineering Diploma with minimum 45% marks (40% for SC/ST) recognized by the Board of Technical Education, U.P., in any branch of Engineering (except Agriculture Engg., Pharmacy and Architecture), are eligible for admission to Second year in any branch of Engineering / Technology.
- (iv) Candidates who have passed ‘three years Diploma in Agriculture Engg. from an Institution located in U.P. with minimum 45% marks(40% for SC/ST)’ OR ‘whose parents (Father or mother) are domicile of U.P.’ and he/she has passed three years Diploma in Agriculture Engg. with minimum 45% marks(40% for SC/ST) recognized by the Board of Technical Education, U.P., are eligible for admission to Second year of **Agriculture Engineering Branch only**.
- (v) Candidates who have passed ‘three years B.Sc. degree and passed XII standard with mathematics as one of the subject’ from any recognized University; securing minimum 45% marks (40% for SC/ST) in aggregate, are also eligible for admission to second year in any branch of Engineering/ Technology. These candidates shall be considered only after filling the supernumerary seats in this category with the candidates belonging to the Diploma stream. The candidates belonging to B.Sc. Stream shall clear the subjects Engineering Graphics/ Engineering Drawing and Engineering Mechanics of the first year Engineering programme along with the second year subjects.
- (vi) Candidates who have passed 2/3 years Diploma in Pharmacy from an Institution located in U.P. with minimum 45% marks (40% for SC/ST)’ OR ‘whose parents are domicile of U.P.’ and he/she has passed 2/3 years Diploma in Pharmacy with minimum 45% marks (40% for SC/ST) recognized by the Board of Technical Education, U.P., are eligible for admission to second year of **B.Pharm only**.
- (vii) For Admission to **2nd year of MCA course (Lateral Entry)**, in any institution affiliated to AKTU, Lucknow, a candidate must have passed Bachelors degree course of minimum three years duration in BCA, B.Sc (IT/ Computer Science) from any recognized Indian University; or its equivalent, recognized by A.I.U. securing minimum 50% (45% for SC/ST) marks in aggregate. The candidate must have passed Mathematics at 10+2 level or Graduation level.

### **3.4. ELIGIBILITY FOR ADMISSION TO NRI QUOTA IN FIRST YEAR**

NRI candidates who possess minimum requisite qualification may get direct admission on 5% seats of total intake in State Funded and Private Institutions of Uttar Pradesh in all courses except MBA/MCA/. However, applicants opting B.Arch. course under this category has to appear in Aptitude Test on the day of counselling to be notified later. The University shall fill the seats of

NRI quota (5%) seats in the following manner:

- (i) NRI quota seats shall be filled from NRIs, who
  - (a) have passed the qualifying examination with Physics, Chemistry and Mathematics from an Institution situated outside India, which is considered equivalent to (10+2) examination by the Association of Indian Universities.

**OR**

have passed High School Certificate Education (GCE) examination with Physics, Chemistry and Higher Mathematics (A) from London / Cambridge / Sri Lanka.

- (b) have appeared in SAT II examination with Mathematics level II C, Physics and Chemistry.

**The relative merit of such cases will be decided on their SAT-II score.**

- (ii) The vacant seats in NRI quota, if any, shall be filled up by such son / daughter / real brother /real sister of NRIs, who have passed intermediate or (10+2) or equivalent examination; with physics, chemistry and mathematics without grace in each of physics, chemistry and mathematics and securing minimum 60% marks (55% for SC/ST) in physics, chemistry and mathematics taken together, from an institution situated in India.
- (iii) The relative merit of candidates mentioned in (ii) will be decided based on the total marks obtained by them in physics, chemistry and mathematics. Such candidates need not appear in the UPSEE-2018.**
- (iv) All such candidates MUST submit an NRI certificate obtained from Indian Diplomatic Mission / Chancellery / High Commission under their seal at the time of counselling.
- (v) The candidate also MUST submit sufficient documents clarifying without ambiguity their true relationship with the sponsoring NRI to the satisfaction of the University.
- (vi) The candidates will be informed separately about the date of counselling and number of seats under this quota. **Candidates are required to be present in person on the day of counselling** with original documents / certificates, failing which they will loose their claim.
- (vii) The latest orders issued by Govt. of U.P. upto the date of NRI counselling shall be applicable for admission in NRI quota.**
- (viii) The detailed information will be published through Newspapers and websites: <https://aktu.ac.in> or <http://www.upsee.nic.in> in the month of May 2018.**

### **3.5. ELIGIBILITY FOR ADMISSION TO FOREIGN NATIONALS (FN) / PERSONS OF INDIAN ORIGIN (PIO) / CHILDREN OF INDIAN WORKERS IN GULF COUNTRIES (CIWGC) IN FIRST YEAR**

FN/PIO/CIWGC seats shall be filled from Foreign Nationals / PIO's/CIWGC who:

- (i) have passed the qualifying examination with Physics, Chemistry and Mathematics, which is considered equivalent to (10+2) examination by the Association of Indian Universities.
- (ii) should submit a copy of passport or equivalent evidence in support of their Nationality.

**The relative merit of such cases will be based on their qualifying examination.**

**The latest orders issued by Govt. of U.P. upto the date of admission will be applicable in FN/PIO/CIWGC.**

### **3.6. ELIGIBILITY FOR DIRECT ADMISSION TO FIRST YEAR IN PRIVATE INSTITUTIONS AT INSTITUTE LEVEL UNDER MANAGEMENT QUOTA (FOR NRI CANDIDATES) / VACANT SEATS AFTER COUNSELLING OF UPSEE-2018**

- (i) The 15% seats<sup>4</sup> in private institutions shall be filled by the Management/ NRI quota at institute level under management quota as per eligibility criteria in clause 3.4. The vacant seats in NRI/Management quota or vacant seats after counselling of UPSEE-2018 shall be filled strictly in following preference order, within fifteen days of the last date of counselling:
- (1) Firstly, by the qualified candidates of JEE (Main)-2018 fulfilling the eligibility as per clause 3.1 for B. Tech. / B.Arch. Their relative merit will be decided on their rank in respective entrance examinations.
  - (2) Secondly, by the qualified candidates of UPSEE-2018, who fulfill the eligibility as per clause 3.1. Their relative merit will be decided on their rank in UPSEE-2018.
  - (3) Thirdly, by the **merit of candidates in qualifying examination** as laid down by All India Council of Technical Education, New Delhi for admission to various programmes which are updated from time to time.
- (ii) Institute shall ensure filling of these vacant seats inviting the applications through advertisement in at least two leading newspapers of the State level and Institute website, giving at least one-week time to submit the applications on the University Portal. Admissions shall be strictly based on clause 3.6(i) mentioned above. However, applicants opting B.Arch. course under this category has to appear in Aptitude Test on the day of counselling to be notified later.

**IN ANY CASE NO PRIVATE INSTITUTION IS ALLOWED TO GIVE ADMISSION IN MORE THAN 25% SEATS TO STUDENTS FROM STATE OTHER THAN UTTAR PRADESH**

### **3.7. ELIGIBILITY FOR DIRECT ADMISSION (LATERAL ENTRY) TO SECOND YEAR IN PRIVATE INSTITUTIONS UNDER VACANT SEATS AFTER COUNSELLING OF UPSEE-2018<sup>5</sup>**

The vacant seats in B. Tech./B.Pharm./MCA course after UPSEE-2018 counselling for lateral entry (second year) shall be filled within 15 days of the last date of counselling at institute level, firstly by the qualified candidates of UPSEE-2018, who fulfill the eligibility as per clause 3.3. Their relative merit will be decided on their rank in UPSEE-2018.

Thereafter, the vacant seats, if any, will be filled on merit by such candidates who have passed the qualifying examination securing minimum 45% (40% for SC/ST) for B. Tech./B.Pharm. and 50% (45% for SC/ST) for MCA marks in aggregate without any grace marks.

Institute shall ensure the filling of these seats by inviting the applications through advertisement in at least two leading newspapers of state and institute website, and give at least one week time to submit the applications.

## **4. EXAMINATION DETAILS**

UPSEE-2018 will be conducted for eleven papers with objective multiple type questions except Drawing Aptitude test (Part B of paper 4). The candidates are required to opt papers and subjects for appearing in the entrance examination as mentioned in clause 4.3, subject to their eligibility as per clause 3. Paper 1, Paper 2, Paper 3 and Paper 4 shall be **OMR based Test only**. Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10 and Paper 11 will be **Computer Based Test only**.

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<sup>4</sup> It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling.

#### 4.1. SCORING AND NEGATIVE MARKING

- (i) All objective type questions are required to be answered on a specially designed OMR answer sheet against the respective question number. Candidate is supposed to select only one choice for correct answer in each question.
- (ii) Every objective multiple type question would carry four marks for each correct answer. More than one answers indicated against the question will be deemed as incorrect answer and no marks are awarded for the incorrect answer.
- (iii) There will be **no negative marking**. However, a record of incorrect answers given by a candidate will be kept separately.
- (iv) Answers in OMR based examination (Paper 1, Paper 2, paper 3 and Paper 4) are to be marked using ballpoint pen (Black / Blue) only. For the purpose of evaluation in these papers, the details filled in by the candidate in the OMR answer sheet will be treated as final.

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<sup>5</sup>It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling.

#### 4.2. QUESTION PAPERS AND SUBJECTS IN THE ENTRANCE EXAMINATION

Paper	Subjects	Number of Questions	Marks
Paper 1	Physics, Chemistry and Mathematics	50 objective type questions each of Physics, Chemistry and Mathematics with a total of 150 questions.	600
Paper 2	Physics, Chemistry and Biology	50 objective type questions each of Physics, Chemistry and Biology with a total of 150 questions.	600
Paper 3	AG-I, AG-II and AG-III	50 objective type questions each of AG-I, AG-II and AG-III with a total of 150 questions.	600
Paper 4	Aptitude Test for Architecture & Design Part-A: Mathematics and Aesthetic Sensitivity Part-B: Drawing Aptitude	50 objective type questions each of Mathematics and Aesthetic Sensitivity with a total of 100 questions and Two questions to test drawing aptitude.	500
Paper 5	Aptitude Test for General Awareness (BHMCT/BFAD/BFA/ MBA (Integrated))	75 objective type questions	300
Paper 6	Aptitude Test for Diploma Holders in Engineering (Lateral Entry)	75 objective type questions	300
Paper 7	Aptitude Test for Diploma Holders in Pharmacy (Lateral Entry)	75 objective type questions	300
Paper 8	Aptitude Test for B.Sc. Graduates in Engineering (Lateral Entry)	75 objective type questions	300
Paper 9	Aptitude Test for MBA	100 objective type questions	400
Paper 10	Aptitude Test for MCA	100 objective type questions	400
Paper 11	Aptitude Test for 2 <sup>nd</sup> Year MCA (Lateral Entry)	100 objective type questions	400

#### 4.3. QUESTION PAPERS REQUIRED FOR DIFFERENT COURSES

COURSE	PAPERS
B. Tech. / B. Tech. (Agriculture Engineering)/ B.Des./ MCA(Integrated)	Paper 1
B. Tech. (Bio Technology)	Paper 1 or Paper 2
B. Tech. (Agriculture Engineering) only <sup>6</sup>	Paper 3
B. Pharm.	Paper 1 or Paper 2
B. Arch. <sup>7</sup>	Paper 4
BHMCT / BFAD/BFA/ MBA(Integrated)	Paper 5

<sup>6</sup> See Clause 3.1 (vi) also.

<sup>7</sup> Diploma holders of Architecture are also required to appear in paper 4. See clause 3.1(v) also.

<b>Lateral Entry:</b> B.Tech. 2 <sup>nd</sup> Year (for Engg. Diploma Holders) B.Pharm 2 <sup>nd</sup> Year (for Pharmacy Diploma Holders) B.Tech. 2 <sup>nd</sup> Year (for B. Sc. Graduates)	Paper 6 Paper 7 Paper 8
MBA	Paper 9
MCA	Paper 10
<b>Lateral Entry: 2<sup>nd</sup> Year MCA</b>	Paper 11

## 5. SCHEDULE OF EXAMINATION

Date of Examination	Paper Code	Subjects	Timing (Total Time Period)
29 <sup>th</sup> April, 2018 (Sunday)	Paper 1	Physics, Chemistry and Mathematics	10:00 AM to 1:00 PM (3 Hours)
	Paper 2	Physics, Chemistry and Biology	
	Paper 3	AG-I, AG-II and AG-III	
	Paper 4	Aptitude Test for Architecture	3.00 PM to 5:30 PM (2 Hours 30 Minutes)
5 <sup>th</sup> May, 2018 (Saturday)	Paper 5	Aptitude test for General Awareness (BHMCT/BFAD/BFA/ MBA(Integrated))	10:00 AM to 11:30 AM (1 Hour 30 Minutes)
	Paper 6	Aptitude Test for Diploma Holders in Engg.	2:30 PM to 4:00 PM (1 Hour 30 Minutes)
	Paper 7	Aptitude Test for Diploma Holders in Pharmacy	
	Paper 8	Aptitude Test for B.Sc. Graduates	
6 <sup>th</sup> May, 2018 (Sunday)	Paper 09	Aptitude Test for MBA	9:00 AM – 11:00 AM (2 Hours )
	Paper 10	Aptitude Test for MCA	1:00 PM – 3:00 PM (2 Hours )
	Paper 11	Aptitude Test for 2 <sup>nd</sup> Year MCA (Lateral Entry)	4:00 PM –6:00 PM (2 Hours )



## 6. SYLLABUS

The Syllabus for each question paper for the UPSEE-2018 is given at Appendix–A.

## 7. EVALUATION AND DECLARATION OF RESULT

- 7.1. The results of UPSEE-2018 will be declared in the first week of June 2018.
- 7.2. Based on performance of the candidates in UPSEE-2018, separate merit lists will be prepared for each course. Merit position, score-card with total marks and marks obtained in each subject shall be available on website **after the declaration of the result.**
- 7.3. In case two or more candidates secure equal marks, inter-se-merit of such candidates shall be determined as follows:

(a) **Firstly**, by the number of incorrect answers given. A candidate giving lesser number of incorrect answers will be placed at higher merit.

(b) **Secondly**,

B. Tech./B.Des./ MCA(Integrated)	: By the marks obtained in Mathematics, Physics, Chemistry sections of Paper 1 respectively and then by age.*
B. Pharm.	: By marks obtained in Biology, Chemistry, Physics sections of Paper 2 respectively and then by age.*
B. Arch. /	: By marks obtained in Drawing Aptitude, Mathematics & Aesthetics sensitivity section of Paper 4 respectively and then by age.*
B.Tech.(Ag. Engg.)	: By marks obtained in AG-I, AG-II, AG-III section of Paper 3 respectively and then by age.*
B.Tech. (Bio-Tech.)	: Same as applicable in B.Tech./ B.Pharm
BHMCT/BFAD/BFA/ MBA/MBA(Integrated)/ MCA/Lateral entry	: *By age only

\* Candidate with higher age will be placed at higher merit.

(c) **Thirdly**, by the application number, the lowest application number will be placed at higher in the merit.

- 7.4. The cut-off percentage of marks in UPSEE-2018 for the merit of successful candidates is 25% (20% for SC/ST) as per UP State Govt. order.
- 7.5. Successful candidates shall be called for counselling according to their merit in UPSEE-2018 by giving intimation through Newspapers and website. However, the allotment of seat shall depend on the availability of the seats on the day of counselling. The successful candidates are advised to keep a close watch on websites <https://aktu.ac.in> or <http://www.upsee.nic.in> and Newspapers for counselling dates. The counselling schedule can be downloaded from the website.

## 8. CATEGORY DEFINITIONS

- 8.1. Candidates, who have passed the qualifying examination from an institution located in the State of Uttar Pradesh and who do not claim for any reserved category are eligible for admission to all the courses at all the institutions against available General (OPEN) seats. [Code: **UPGE**]  
*No category certificate required from such candidates.*

- 8.2. Candidates, who have passed the qualifying examination from an institution located in State of U.P. and are domicile of U.P. and belong to Schedule Caste (SC) of U.P. / Schedule Tribe (ST) of U.P. / Other Backward Classes of U.P. are eligible for admission against available reserved seats of their category. List of Schedule caste, Schedule Tribe and Other Backward Class are available on Appendix-F<sup>8</sup>.

[Respective Codes: **UPSC / UPST / UPBC**]

*Certificate No. 1 or 2, as applicable, is required.*

- 8.3. Candidates, who have passed the qualifying examination from an institution located outside U.P. and whose parents are domicile of U.P. and who have not claimed for any reserved category, are also eligible for admission to courses offered at all institutions under General (OPEN) category. Such candidate has to produce the domicile certificate of his/her parents (Father OR Mother only) at the time of counselling.

[Code: **UPGD**]

*Certificate No. 3 required from such candidates*

- 8.4. Candidates, who have passed the qualifying examination from an institution located outside U.P. and whose parents are domicile of U.P. and who belong to Schedule Caste of U.P. / Schedule Tribe of U.P. / Other Backward classes of U.P. are also eligible for admission against reserved seats of their category.

[Respective Codes: **GDSC/GDST/GDBC**]

*Such candidate has to produce the domicile certificate of his/her parents (**Father OR Mother only**) (Certificate No. 3) and Category Certificate (Certificate No. 1 or 2 as applicable) at the time of counselling.*

- 8.5. The domicile requirement to son/daughter of following is **relaxed** and admission is permitted to such:

- (i) defense personnel settled in U.P. on the date of Entrance Examination after retirement / being disabled in action or Defense personnel killed in action and the dependents settled in U.P. on the date of Entrance Examination. (*Certificate no. 5 is required.*)
- (ii) defense personnel who are not domicile of U.P., but are posted in U.P. on the date of Entrance Examination. (*Certificate no. 5 is required.*)
- (iii) Employee of **All India Services** belonging to U. P. cadre. (*Certificate no. 11 is required*)

[Code: **GDDA**]

***GDDA candidates will be considered as UPGD category for all other benefits.***

- 8.6. Candidates, who have passed the qualifying examination from an institution located outside U.P. and whose parents are NOT domicile of U.P.

[Code: **OSGE**]

*No category certificate required from such candidates.*

***Such candidates, along-with candidates of other categories, shall be considered only against 10 percent of the sanctioned intake of first year in Technology/ Architecture courses in Private Institutions affiliated to AKTU.***

- 8.7. Proformas of various certificates are available in Appendix –D.

<sup>8</sup> It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling.

## 9. RESERVATION OF SEATS

### 9.1. Vertical Reservation (Category):

Category	Percentage of Reservation
(a) Scheduled Caste from U.P.	21%
(b) Scheduled Tribe from U.P.	02%
(c) Other Backward Classes from U.P.	27%

### 9.2. Horizontal Reservation (Sub-category available in each category):

Sub-Category	Code	Maximum Percentage of Total Seats
(a) Dependents of Freedom Fighters from U.P.	UPFF	02%
(b) Sons / Daughters of defense personnel of U.P. either retired (superannuated) or killed / disabled in action or defense personnel posted in U.P./defense personnel domicile of U.P. & posted outside U.P.	UPAF	05%
(c) Physically Handicapped / Disabled from U.P.	UPHC	03%
(d) Female from U.P.	UPGL	20%

- 9.3. The candidates can be given **only one** type of horizontal reservation out of UPFF/UPAF/UPHC. **However, the female candidates can also claim for any one of UPFF/UPAF/UPHC alongwith UPGL.**
- 9.4. Subsequent request for the change of category / sub-category filled in Application Form **shall not** be entertained under any circumstances.
- 9.5. Category / sub-category must be supported by the relevant certificates as per proforma given in the Appendix-D to be produced at the time of counselling, failing which the candidates shall be treated in General Category.
- 9.6. The advantage of horizontal reservation in Armed force sub-category is available to sons/daughters of 'defense personnel from U.P. either retired (Superannuated) or killed / disabled in action and the dependents settled in U.P.', and 'the defense personnel posted in U.P.' on the date of Entrance Examination.
- 9.7. Certificate no. 4, 5 and 6 are required at the time of counselling, for claiming reservations in subcategories mentioned at clause 9.2 (a), (b) and (c) respectively.
- 9.8. **The seats available under Fee Waiver scheme will be notified in respective category at the time of counselling.**
- 9.9. **Please note that benefits of UPGL subcategory will automatically be given to all the Female candidates.**

## 10. WEIGHTAGE TO CANDIDATES FROM RURAL AREAS OF UTTAR PRADESH

- 10.1. A weightage of 3% of the total marks obtained at UPSEE-2018 will be given to such UPGE candidates for B.Tech./B.Pharm./B.Arch./BHMCT/BFAD/BFA/ courses, who have passed the qualifying examination from an institution situated in rural area of Uttar Pradesh.
- 10.2. For this purpose, the institutions should be situated in the jurisdiction of Gram Panchayat but the area should not be industrially developed. Such candidates must produce Certificate Number 7 at the time of counselling.
- 10.3. Rural weightage is not applicable for a candidate opting any other reservation and for a candidate opting direct admission to second year.
- 10.4. Rural weightage is not applicable for candidates under UPGD category defined in clause 8.3.

## 11. MEDICAL STANDARDS

- 11.1. Candidates will have to submit a certificate of Medical fitness/ handicapped on Certificate number 9 at the time of counselling.
- 11.2. The medical standards prescribed are given below:

### Medical Standards Applicable:

Height	Candidate should be Physically fit to pursue his/her studies in opted course.
Weight	
Chest measurement	
Heart and lungs	No abnormality
Hernia, Hydrocele, Piles etc.	Presence of any of these is to be corrected before joining.
Vision	Normal. If defective, it must be got corrected to 6/9 in the better eye and 6/12 in the worse one. Eyes should be free from congenital or any other disease.
Hearing	Normal. If defective, it must be got corrected before joining.
Physically Handicapped / Disabled	The candidate having any one type of physical handicap/ disability given below.

### Physically Handicapped / Disabled:

Type – I	Minimum 40% permanent Visual impairment
Type – II	Minimum 40% permanent Locomotors disability
Type – III	Minimum 40% permanent speech and Hearing impairment

## 12. CITY OF EXAMINATION

The UPSEE-2018 will be held at various cities as given in the following tables. The candidates are advised to give three choices of examination cities.

- (i) **Paper 1, Paper 2, Paper 3 and Paper 4** are **OMR based Tests** and shall be held in various cities given in the **Examination City Table-I**
- (ii) **Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10, and Paper 11** are **Computer based Tests** and shall be held in various cities given in the **Examination City Table-II**.

**Examination City Table-I**  
(OMR Based Test)  
[For Paper 1, Paper 2, Paper 3 and Paper 4]

<b>Cities in State of U.P.</b>	17. Sultanpur	34. Mirzapur
1. Agra	18. Deoria	35. Bijnor
2. Firozabad	19. Gorakhpur	36. Moradabad
3. Mathura	20. Kushinagar	37. Muzaffarnagar
4. Aligarh	21. Jalaun (Orai)	38. Saharanpur
5. Allahabad	22. Jhansi	39. Ghazipur
6. Azamgarh	23. Etawah	40. Jaunpur
7. Ballia	24. Kanpur Nagar	41. Varanasi
8. Mau	25. Kanpur Dehat	
9. Bareilly	26. Lakhimpur Kheri	<b>Cities in Other States</b>
10. Shahjahanpur	27. Lucknow	42. Bhopal
11. Basti	28. Raebareli	43. Dehradun
12. Banda	29. Sitapur	44. Delhi
13. Gonda	30. Bulandshahr	45. Patna
14. Ambedkar Nagar	31. Gautam Buddha Nagar (Noida/Greater Noida)	46. Ranchi
15. Barabanki	32. Ghaziabad	47. Jaipur
16. Faizabad	33. Meerut	48. Kolkata
		49. Mumbai

**Examination City Table-II**  
(Computer Based Test)  
[For Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10 and Paper 11]

1. Agra	7. Ghaziabad	12. Lucknow
2. Aligarh	8. Gorakhpur	13. Mathura
3. Allahabad	9. Gautam Buddha Nagar (Noida / Greater Noida)	14. Meerut
4. Ambedkar nagar	10. Jhansi	15. Moradabad
5. Bareilly	11. Kanpur	16. Muzaffarnagar
6. Bijnaur		17. Varanasi

- (iii) Candidates are advised to be **VERY CAREFUL** while giving their options for city of **examination centre**. Candidates are advised to choose cities of examination on the basis of the paper he/she has opted from the respective tables i.e **Examination City Table-I** and/or **Examination City Table-II**.
- (iv) In case, candidate has opted papers in such a manner that some of these papers are the OMR based Tests (**Paper 1, Paper 2, Paper 3 and Paper 4**) and some of these papers are Computer based Tests (**Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10, and Paper 11**), the choices for city of examination must be chosen from the **Examination City Table-II** only.
- For example,
- (a) If a candidate opts for **Paper 1 only**, he/she should to refer to the **Examination City Table-I**.
- (b) If a candidate opts for **Paper 5 only**, he/she should refer to the **Examination City Table-II**.
- (c) **If a candidate opts for two papers Paper 1 and Paper 5**, he/ she should refer to the **Examination City Table-II**.
- (v) If any candidate chooses cities of examination where the examination for the paper opted is not being conducted, he/she shall be allotted an examination city from the respective list and same shall be binding upon the candidate.
- (vi) Certain examination cities may be cancelled if sufficient number of candidates does not opt for that city. Request for change of city of examination shall not be entertained under any circumstances.
- (vii) List of Cities of Examination for OMR based Test as well as Computer based Test is given in Appendix-E also.

### 13. ADMIT CARD

- 13.1. Admit card will be available online on the website <http://www.upsee.nic.in> to every candidate. **Downloaded admit card shall be treated as valid admit card**. The candidates are advised to check the details of admit cards with regards to their category, sub-category, gender, rural weightage, Name, Father's Name etc. as mentioned on the Admit Card.
- 13.2. No candidate will be allowed to appear in the examination without admit card.
- 13.3. If any candidate is unable to download his/her admit card, he/she should contact the helpline as indicated on the website <http://www.upsee.nic.in> or send an email to the mail address [upsee2018helpdesk@aktu.ac.in](mailto:upsee2018helpdesk@aktu.ac.in) latest by **20<sup>th</sup> April, 2018**.
- 13.4. A plea that a candidate failed to receive the information for appearing at the Examination will not be accepted as a ground for the refund of fee or any other redressal. UPSEE-2018 may withdraw the permission to appear in UPSEE-2018 granted by mistake to a candidate who is not eligible to appear at the UPSEE-2018 even if an Admit Card has been issued and produced by the candidate before the concerned Centre Superintendent at the Examination Centre.
- 13.5. In case of any reported correction, the final corrected admit card will have to be downloaded from website <http://www.upsee.nic.in> or <https://aktu.ac.in> before the examination date.

- 13.6. Since successful candidates are required to produce the Admit Card at the time of counselling and admission, hence it should be carefully preserved until the admission process is completed.**

#### **14. MEDIUM AND MODE OF EXAMINATION & EVALUATION**

All question papers (except part B of paper-4) will carry objective multiple-choice questions. Answers of Paper 1, paper 2, Paper 3 and paper 4 will be evaluated by OMR methodology. All question papers for undergraduate admissions (except paper-4) will be in Hindi and English both, but in case of any ambiguity, the English version shall be considered final. The candidates appearing in the UPSEE-2018 have the option to answer part B of Paper-4 either in English or in Hindi. In all cases, the Standard English numerals must be used.

#### **15. COUNSELLING**

- 15.1.** Successful candidates will be required to participate in the counselling process. The information about Counselling procedure, Counselling Schedule and all relevant information regarding counselling etc., will be notified on the website: <https://aktu.ac.in> or <http://www.upsee.nic.in>.

#### **16. EXAMINATION FEE**

The examination fee for the On-Line Application is as follows:

<b>For Male / Transgender Candidates of General/ OBC Category</b>	<b>For SC/ST Category/Female/PH Candidates of All the category</b>
<b>Rs. 1300/-</b>	<b>Rs. 650/-</b>

The examination fee has to be submitted On-Line through Credit/debit Card/ Net Banking while submitting the On-Line Application. Please note that the bank may additionally charge service charges plus applicable taxes while making the payment through Credit/Debit card/ Net banking.

#### **17. TUITION FEES**

- 17.1.** The tuition fees in Govt. / Govt. aided colleges / institutes shall be as per latest orders of Government of U.P applicable in the respective colleges/institutes. However, few courses are under self finance scheme and the details of the fee for such courses can be obtained by respective colleges/institutions. However, information about amount of the hostel and other fee can be obtained from the institute itself.
- 17.2.** The fees in Private Institutions / Govt. aided Institutions running self finance courses will be as per the latest notification/orders issued by Govt. of Uttar Pradesh/ Fee Fixation Committee and same is available on website <http://www.afrcup.in>.

#### **18. LAST DATE OF SUBMISSION OF ON-LINE APPLICATION FORM**

Application Form for UPSEE-2018 can be submitted On-Line only through website <http://www.upsee.nic.in> from **23<sup>rd</sup> January 2018, 11:00 AM**. The Last Date of filling and submitting the On-Line Application Form is **15<sup>th</sup> March 2018, 05:00 PM**.

## HOW TO FILL ON-LINE APPLICATION FORM (UG & PG COURSES)

The On-Line application to UPSEE-2018 can be filled and submitted as per clause 18, clause 19, clause 20 and clause 21 of the Information Brochure as given below.

### 19. AVAILABILITY OF INFORMATION BROCHURE

The Information Brochure will be available ON LINE on the websites <http://www.upsee.nic.in> only. The same can be downloaded and/or printed for reference by the candidates. The application form can be filled in On-Line through Internet from any place of convenience.

### 20. HOW TO FILL AND SUBMIT THE ON-LINE APPLICATION FORM

#### 20.1. APPLICATION PROCEDURE

The online application can be made from 11:00 AM, 23<sup>rd</sup> Jan 2018 till 05:00 PM of 15<sup>th</sup> March 2018 through the website <http://www.upsee.nic.in>. The On-Line Application Form is self explanatory. For assistance, in case of any difficulty in filling up ON-LINE application form, candidate may contact at Toll Free Number 1800-180-0161 or send an email at [upsee2018helpdesk@aktu.ac.in](mailto:upsee2018helpdesk@aktu.ac.in) with subject line “Seeking Help”.

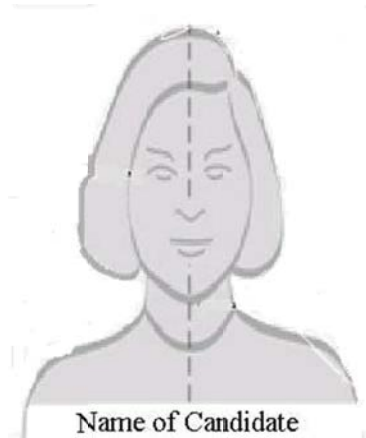
#### 20.2. The On-Line application form submission consists of following three simple steps.

- (i) Registration (Filling up of Personal and other Details)
- (ii) Uploading of Scanned Images of Photograph and Signature.
- (iii) Payment of Examination Fee and Printing of the “Confirmation Page”

#### 20.3. Before, a candidate starts filling the On-Line application Form, he/she must be ready with the following:

- (i) Aadhar Number of candidate.
- (ii) A personal mobile phone number and a personal E-Mail id.
- (iii) **Photograph:** A clear scanned image of his/her recent color passport size photograph (**3.5cm X 4.5cm**) in **JPEG** Format with a maximum size of **100 KB**. The photograph must be front facing to the camera in a manner that full face shows. The background should be either white or off-white and uncluttered. The photograph should be colour with name of the candidate printed on it as shown in the sketch below. It should be without cap or goggles. Spectacles are allowed. Candidates with unclear photograph are liable to be rejected. Candidates may keep 6-8 identical photographs in reserve for use at the time of entrance examination.





- (iv) A clear scanned image of his/her signature (3.5cm X 1.5cm) in JPEG Format with a maximum size of 30 KB.

**20.4** Once ready with this he/she may proceed to following steps. Visit the website <http://www.upsee.nic.in> (Please use the browser Internet Explorer 7 or above) and choose the appropriate link as follows for filling up the application form.

- (v) Follow the link “**UP State Entrance Examination for UG (UPSEE-2018)**” for filling the application form for admission to Under Graduate programmes: B.Tech./ B.Des./B.Arch./B.Pharm/BHMCT/BFAD/BFA/MBA(Intg.)/MCA(Intg.)/ Direct admission to 2<sup>nd</sup> year of B.Tech./ B.Pharm.
- (vi) Follow the link “**UP State Entrance Examination for PG (UPSEE-2018)**” for filling the application form for admission to PG programmes : MBA/MCA and Direct admission to 2<sup>nd</sup> year of MCA.

You may now start filling the application by clicking the link “**Apply**” at the bottom of the page. A new screen containing the Instructions and Procedure for online submission of Application Form appears. Read this page carefully and thereafter follow the link “**Click here to proceed**” at the bottom of the page which takes you to the On-Line Application Form. Now start filling the Application Form.

### **Step1: Registration and Filling up of Personal, Educational and other Details**

- (1) The On-Line Application Form is self explanatory. You are required to fill up all the personal details such as Name, Father’s Name, Mother’s Name, Domicile of your parent, state from where you have passed or appearing in the qualifying examination, Communication details

such as address, mobile phone number, email etc., Course Apply details such as qualifying examination detail, subjects in the qualifying examination etc. You are also required to choose paper as per eligibility, choice of city for examination centre etc during the filling of the online application form.

- (2) After filling these details, you are required to choose “**Password**” and security question. You are required to remember this “**Password**” till the examination is over. **Please note that this Password alongwith Application Number generated by the system will be required in future in order to login into the system again.** You are advised not to share this password with anyone.
- (3) For making changes in the Application Form, you may click the “**EDIT**” Button at the bottom as many times as you want.
- (4) **After completion of the Application Form, you may submit the application form by clicking “SUBMIT” Button. Once you click “SUBMIT” Button, a Review page showing all the crucial information filled by you appears on the screen. Now, check all the information on the Review Page. If you want to change/ modify some of the information provided in the Application Form, click the “EDIT APPLICATION FORM DATA” Button and modify the entries in Application Form as desired and “SUBMIT”. You can repeat this process as many times as you want.**
- (5) **Once you are satisfied with all the entries and want to submit the Application Form, click the “FINAL SUBMIT” Button. Please note that once you submit the application form by clicking the “FINAL SUBMIT” Button, the On-Line Application Form is finally submitted and you will not be able to modify/change/edit the entries of your Application Form. Therefore, you are advised to click “FINAL SUBMIT” Button only when you are completely satisfied with entries on the application form, part of which has been shown on the “Review Page”.**
- (6) Before “**FINAL SUBMIT**” Button, you will notice a Declaration at the bottom. Please read the declaration and accept the declaration by ticking the check box named “I agree” . Unless you accept the declaration by ticking the given check box, you will not be able to submit the form.
- (7) After Final Submission of the Application Form, Step 1 is completed and an **Application Number** is generated by the system. **You are required to note this APPLICATION NUMBER for all future correspondences and in order to be able to Login again.**
- (8) **Now you may proceed with Step 2. If you wish to complete the step 2 at later time, please Logout. Thereafter, Login again with your APPLICATION NUMBER and PASSWORD at a convenient time and complete the Step 2.**

## **Step 2: Uploading of Scanned Images of Photograph, Signature**

- (1) Once Step 1 is complete, then you may proceed now with Step 2 for uploading of the scanned images.
  - (i) Upload a clear scanned image of his/her recent passport size color photograph (3.5cm X 4.5cm) in JPEG Format with a maximum size of 100 KB. The photograph must be front facing to the camera in a manner that full face shows. The background should be either white or off-white and uncluttered.
  - (ii) Upload a clear scanned image of his/her signature (3.5cm X 1.5cm) in JPEG Format with a maximum size of 30 KB.
  
- (2) **Please check/review that images that have been uploaded are clear and correct before pressing the “SAVE” Button. Once “SAVE” Button is pressed, you will not be able to change the images. Therefore, before pressing the “SAVE” Button, make it doubly sure that uploaded images are correct and clear. If images that have been uploaded are not proper or appears blurred, then you must upload a proper and clear image(s) again. Please note that an Application Form with blurred photograph or signature is liable to be rejected.**
  
- (3) Once you are satisfied with uploaded images, then you may press the “SAVE” Button. Once “SAVE” Button is pressed, images are finally uploaded and now you will not be able to change the image(s).
  
- (4) You may now proceed with Step 3 for making payment of examination fee. **If you wish to complete the Step 3 at a later time, please logout. Thereafter, Login again with your APPLICATION NUMBER and PASSWORD at a convenient time and complete the step 3.**

## **Step 3: Payment of Examination Fee through Credit Card / Debit Card/ Net-banking/Wallets and Downloading of “Confirmation Page”**

After completion of Step 1 and Step 2, applicant may proceed with Step 3 for payment of Examination Fee. The examination fee can be paid On-Line ONLY through **Credit Card / Debit Card / Net Banking/Wallets.**

- (1) For making payment through Credit Card / Debit Card / Netbanking/Wallets, choose appropriate

“**Mode of Payment**” and click the link “**Proceed for Payment**” to make the payment of examination fee. All VISA/Master cards are accepted. You should be ready with your Credit Card/ Debit Card/Net Banking details. Please note that, in addition to the examination fee, bank may charge extra amount as service charge and/or taxes as applicable.

- (2) After making payment, a payment **Transaction Number** is generated. **You are required to note this Transaction Number for future correspondences.**
- (3) **If the payment is successful, a link appears on the screen/page named “Download Confirmation Page”. You must download this “Confirmation Page” by clicking this link and save the “Confirmation Page” for record. You are also advised to take two copies of print-outs of this “Confirmation page” and keep them preserved for record and future communication. Now your application form is complete. You may log out. Please note that this “Confirmation Page” is not required to be sent to the University / UPSEE-2018 office. Your “Application Number” is also printed on this “Confirmation Page”.**
- (4) Please note that you can view your Application Form later also. For this, you are required to Login again at the website <http://www.upsee.nic.in> using **your Application Number and Password**. Although, you will not be able to edit/modify your application Form.
- (5) **Failed Transaction:** In case, your transaction is failed for some reason, whatsoever, then you will not be able to download the “Confirmation Page”. If you are unable to download the “Confirmation page” and your account is debited, it means that transaction could not be updated at NIC server of UPSEE-2018. In case, you do not succeed to download the “Confirmation page”, it indicates that your transaction has failed and you are required to make the Payment of Examination Fee again and download the confirmation page as explained in Point No (13) to Point No (16) above.
- (6) However, the amount of Examination Fee against the failed transactions, which could not be updated on NIC Server of UPSEE-2018, shall be automatically refunded by the Bank after Reconciliation and shall be credited to the account from which the payment was made using your debit card/ credit card / Net Banking. In case, amount debited against the failed transaction is not refunded to your account within FIVE DAYS, you may send an email as follows.

**To** : [upsee2018helpdesk@aktu.ac.in](mailto:upsee2018helpdesk@aktu.ac.in)

**Subject:** Failed Transaction

Please do not forget to mention the following in your mail.

- A) **Your Application Number,**
- B) **Transaction Number**
- C) **Date of Birth, and**
- D) **Aadhar Number**

- (7) Please do not send the hard copy / soft copy / print-out of the Confirmation page or any other document to the University at this stage.
- (8) In case of any difficulty in filling up the On-Line Application Form, you may contact UPSEE -2018 **Helpdesk** at **Toll Free Number: 1800-180-0161** between 10:00 AM to 05:00 PM or send an email to [upsee2018helpdesk@aktu.ac.in](mailto:upsee2018helpdesk@aktu.ac.in) with *subject line : Seeking Help*.

## 21. KEY ELEMENTS OF ON-LINE APPLICATION FORM

Read carefully the entire Information Brochure before filling the On-Line Application Form. The On-Line Application Form is self explanatory. Following are the key elements of the Application Form which will appear in the application (not necessarily in the order).

- (1) **Name of the Candidate:** Write your FULL NAME (in English Capital Letters) as recorded in your High School or equivalent examination certificate
- (2) **Father's Name:** Write FULL NAME (in English Capital Letters).
- (3) **Mother's Name:** Write FULL NAME (in English Capital Letters).
- (4) **Date of Birth:** Fill your date of birth exactly as recorded in your High School or equivalent examination certificate in dd/mm/yyyy format.
- (5) **Nationality:** Choose "INDIAN" if your Nationality is Indian otherwise choose "OTHERS"
- (6) **Gender:** Choose Male or Female or Third Gender (Transgender) whichever is applicable.
- (7) **Parent's Domicile:** Choose "Uttar Pradesh" if at least one of your parents (Father/Mother) is domicile of U.P., Choose "Other than Uttar Pradesh" if none of your parents is domicile of U.P. and choose "GDDA" if belongs to clause 8.5 of Information Brochure.
- (8) **Aadhar Number:** This is certainly Aadhar number of candidate itself. The identity of candidate can be verified at the time of Entrance Examination / Counselling / Admission to Institute / End Semester Examinations during course studies by Institute/University.
- (9) **Address for Communication:** Write your complete mailing address with pin code in CAPITAL LETTERS for postal communication.
- (10) **Contact Mobile Phone Number:** Write your mobile number. This mobile number will be used for communication with you during examination/admission process.
- (11) **E-Mail address:** Write your E-Mail address. This mail address will be used for communication with you during examination/admission process.

**(12) Qualifying Examination Details:**

- (a) **Examination:** Choose appropriate option(s) whether you have passed or are appearing in Intermediate (10+2)/ Diploma in Engg./Diploma in Pharmacy/ Diploma in Agriculture Engg./Diploma in Architecture/Graduate
- (b) **Qualifying Examination Passed/ Appearing from college situated in:** Choose “Uttar Pradesh” if you have passed or are appearing in qualifying examination form UP otherwise choose “Other than Uttar Pradesh”.
- (c) **Year of Passing / Appearing:** Write year of passing or appearing, whichever is applicable, the qualifying examination.
- (13) Subjects in Qualifying Examination:** Choose the subject group in which you have passed / are appearing in, Qualifying Examination.
- (14) Choice of City of Centre for Entrance Examination in order of preference:** Indicate three distinct choices for city of examination from where you wish to appear in UPSEE 2018. Refer to Clause 12 or Appendix-E of the Information Brochure for city of examination.
- (15) Category:** Choose applicable category whether you are a candidate of UPGE, UPSC, UPST, UPBC, UPGD, GDSC, GDST, GDBC, GDDA, OSGE. . Refer to Clause 8.1 to 8.6 of this Information Brochure
- (16) Sub-Category:** Choose suitable subcategory depending upon whether you belong to sub-category UPPF, UPAF or UPHC otherwise choose “Not Applicable” if you do not belong to any of these sub-categories. Refer to Clause 9.2 to 9.9 of this Information Brochure.
- (17) Rural Weightage Claimed:** Choose “YES” if you are eligible for and want to claim rural Weightage otherwise choose “NO”. Refer to clause 10 of Information Brochure for rural weightage eligibility.
- (18) Seeking Admission For:** Choose appropriate option First Year for UG or 2<sup>nd</sup> Year (Lateral Entry) or First Year for PG. Please note that this choice is linked with your qualification and subjects in the qualifying examination. Please refer to clause 3 & 4 of the Information Brochure.
- (19) Course(s) APPLIED FOR:** Choose appropriate course name(s) to which you are seeking admission.
- (20) Papers in which you wish to appear in UPSEE-2018:** Choose appropriate paper(s) in which you wish to appear. Refer Clause 4 of the Information Brochure.

- (21) **Photograph:** Upload scanned image of your recent 3.5 cm x 4.5 cm color photograph in JPEG format. The photograph which are not clear will be considered as an attempt of the act of impersonation and application form is liable to be rejected.
- (22) **Signature:** Upload scanned image of your signature in JPEG format.
- (23) **Declaration:** Read the declaration and accept the declaration by ticking the check box named “I agree” provided. Unless you accept the declaration by ticking the given check box, you will not be able to submit the form.
- (24) **Mode of Payment:** Choose the appropriate mode (Credit Card / Debit Card / Net Banking) of making payment of the prescribed examination fee and make the payment. Please note that in addition to the examination fee, bank may charge additional amount as service charge and taxes as applicable on the transaction.
- (25) **Fee Amount in Rupees:** Examination fee is Rs 1300.00 for Male/ Transgender candidates of General/OBC Category and Rs 650.00 for SC/ST candidates/ Physically Handicapped candidates and female candidates of all categories. Please refer to Clause 16 of the Information Brochure.

**SYLLABI FOR UPSEE-2018****PAPER – 1 (PHYSICS, CHEMISTRY & MATHEMATICS)****Section A, PHYSICS**

**Measurement:** Dimensional analysis and error estimation, dimensional compatibility and significant figures.

**Motion in one dimension:** Average velocity, instantaneous velocity, one-dimensional motion with constant accelerations, freely falling bodies.

**Laws of Motion:** Force and inertia, Newton's laws of motion, and their significance.

**Motion in two dimensions:** Projectile motion, uniform circular motion, tangential and radial acceleration in curve-linear motion, relative motion and relative acceleration.

**Work, Power and Energy:** Work done by a constant and variable forces, kinetic and potential energy, power, Conservative and non-conservative forces, conservation of energy, gravitational energy, work energy theorem, potential energy stored in a spring.

**Linear Momentum & collisions:** Linear momentum & impulse, conservation of linear momentum for two particle system, collisions, collision in one dimension, collision in two dimension, rocket propulsion.

**Rotation of a rigid body about a fixed axis:** Angular velocity and angular acceleration, rotational kinematics, rotational motion with constant angular acceleration relationship between angular and linear quantities, rotational energy, moment of inertia for a ring, rod, spherical shell, sphere and plane lamina, torque and angular acceleration, work and energy in rotational motion, rolling motion of a solid sphere and cylinder.

**Gravitation:** Gravitational field, Kepler's laws and motion of planets, planetary and satellite motion, geostationary satellite.

**Oscillatory motion:** Harmonic motion, oscillatory motion of mass attached to a spring, kinetic & potential energy, Time Period of a simple pendulum, comparing simple and harmonic motion with uniform circular motion, forced oscillations, damped oscillations and resonance.

**Mechanics of solids and fluids:** States of matter young's modulus, bulk modulus, shear modulus of rigidity, variations of pressure with depth, Buoyant forces and Archimedes principle, Pascal's law, Bernoulli's theorem and its application, surface energy, surface tension, angle of contact, capillary rise, coefficient of viscosity, viscous force, terminal velocity, Stoke's law, stream line motion, Reynold's numbers.

**Heat and thermodynamics:** First law of thermodynamics, specific heat of an ideal gas at constant volume and constant pressure, relation between them, thermodynamics process (reversible, irreversible, isothermal, adiabatic), second law of thermodynamics, concept of entropy and concept of absolute scale, efficiency of a Carnot engine, thermal conductivity, Newton's law of cooling, black body radiation, Wien's displacement law, Stefan's law.

**Wave:** Wave motion, phase, amplitude and velocity of wave, Newton's formula for longitudinal waves, propagation of sound waves in air, effect of temperature and pressure on velocity of sound, Laplace's correction, Principle of superposition, formation of standing waves, standing waves in strings and pipes, beats, Doppler's effect.

**Electrostatics:** Coulomb's law, electric field and potential due to point charge, dipole and its field along the axis and perpendicular to axis, electric flux, Gauss's theorem and its applications to find the field due to infinite sheet of charge, and inside the hollow conducting sphere, capacitance, parallel plate capacitor



with air and dielectric medium between the Plates, series and parallel combination of capacitors, energy of a capacitor, displacement currents.

**Current Electricity:** Concept of free and bound electrons, drift velocity and mobility, electric current, Ohm's law, resistivity, conductivity, temperature dependency of resistance, resistance in series and parallel combination, Kirchhoff's law and their application to network of resistances, principle of potentiometer, effect of temperature on resistance and its application.

**Magnetic Effect of Current:** Magnetic field due to current, Biot-Savart's law, magnetic field due to solenoid, motion of charge in a magnetic field, force on a current carrying conductors and torque on current loop in a magnetic field, magnetic flux, forces between two parallel current carrying conductors, moving coil galvanometer and its conversion into ammeter and voltmeter.

**Magnetism in Matter:** The magnetization of substance due to orbital and spin motions of electrons, magnetic moment of atoms, diamagnetism, paramagnetism, ferromagnetism, earth's magnetic field and its components and their measurement.

**Electromagnetic induction:** Induced e.m.f., Faraday's laws, Lenz's law, electromagnetic induction, self and mutual induction, B-H curve, hysteresis loss and its importance, eddy currents.

**Ray Optics and optical instruments:** Sources of light, luminous intensity, luminous flux, illuminance, photometry, wave nature of light, Huygen's theory for propagation of light and rectilinear propagation of light, reflection of light, total internal reflection, reflection and refraction at spherical surfaces, focal length of a combination of lenses, spherical and chromatic aberration and their removal, refraction and dispersion of light due to a prism, simple and compound microscope, reflecting and refracting telescope, magnifying power and resolving power.

**Wave Optics:** Coherent and incoherent sources of light, interference, young's double slit experiment diffraction due to a single slit, linearly polarized light, Polaroid.

**Modern Physics:** Photo-electric equation, matter waves, quantization, Planck's hypothesis, Bohr's model of hydrogen atom and its spectra, ionization potential, Rydberg constant, solar spectrum and Fraunhofer lines, fluorescence and phosphorescence, X-Rays and their productions, characteristic and continuous spectra.

Nuclear Instability, radioactive decay laws, Emission of  $\alpha$ ,  $\beta$ ,  $\gamma$  rays, Mass - defect, Mass Energy equivalence, Nuclear Fission Nuclear Reactors, Nuclear Fusion.

Classification of conductors, Insulators and semiconductors on the basis of energy bands in solids, PN junction, PN Diode, junction Transistors, Transistor as an amplifier and Oscillator.

Principles of Logic Gates ( AND, OR and NOT ) Analog Vs Digital communication, Difference between Radio and television, Signal propagation, Principle of LASER and MASER, Population Inversion, Spontaneous and stimulated Emission.

## **Section B, CHEMISTRY**

**Atomic Structure:** Bohr's concept. Quantum numbers, Electronic configuration, molecular orbital theory for homonuclear molecules, Pauli's exclusion principle.

**Chemical Bonding:** Electrovalency, co-valency, hybridization involving s, p and d orbitals hydrogen bonding.

**Redox Reactions:** Oxidation number, oxidising and reducing agents, balancing of equations.

**Chemical Equilibrium and Kinetics:** Equilibrium constant (for gaseous system only) Le Chatelier's principle, ionic equilibrium, Ostwald's dilution law, hydrolysis, pH and buffer solution, solubility product, common-ion effect, rate constant and first order reaction.

**Acid-Base Concepts:** Bronsted Lowry & Lewis. **Electrochemistry:** Electrode potential and electrochemical series. **Catalysis:** Types and applications.

**Colloids:** Types and preparation, Brownian movement, Tyndall effect, coagulation and peptization.

**Colligative Properties of Solution:** Lowering of vapor pressure, Osmotic pressure, depression of freezing point, elevation of boiling point, determination of molecular weight.

**Periodic Table:** Classification of elements on the basis of electronic configuration, properties of s,p and d block elements, ionization potential, electronegativity & electron affinity.

**Preparation and Properties of the following:** Hydrogen peroxide. copper sulfate, silver nitrate, plaster of paris, borax, Mohr's salt, alums, white and red lead, microcosmic salt and bleaching powder, sodium thiosulfate.

**Thermochemistry:** Exothermic & endothermic reactions Heat of reaction, Heat of combustion & formation, neutralization, Hess's law.

**General Organic Chemistry:** Shape of organic compounds, Inductive effect, mesomeric effect, electrophiles & nucleophiles, Reaction intermediates: carbonium ion, carbanions & free radical, Types of organic reactions, Cannizzaro Friedel Craft, Perkin, Aldol condensation.

**Isomerism:** Structural, Geometrical & Optical

**IUPAC:** Nomenclature of simple organic compounds.

**Polymers:** Addition & condensation polymers

**Carbohydrates:** Monosaccharides.

**Preparation and Properties Of the Followings:** Hydrocarbons, monohydric alcohols, aldehydes, ketones, monocarboxylic acids, primary amines, benzene, nitrobenzene, aniline, phenol, benzaldehyde, benzoic acid, Grignard Reagent.

**Solid State:** Structure of simple ionic compounds, Crystal imperfections (point defects only), Born-Haber cycle

**Petroleum:** Important industrial fractions, cracking, octane number, anti-knocking compounds.

### **Section C, MATHEMATICS**

**Algebra:** Sets relations & functions, De-Morgan's Law, Mapping Inverse relations, Equivalence relations, Peano's axioms, Definition of rationals and integers through equivalence relation, Indices and surds, Solutions of simultaneous and quadratic equations, A.P., G.P. and H.P., Special sums i.e.  $\sum n^2$  and  $\sum n^3$  ( $n \in \mathbb{N}$ ), Partial fraction, Binomial theorem for any index, exponential series, Logarithm and Logarithmic series. Determinants and their use in solving simultaneous linear equations, Matrices, Algebra of matrices, Inverse of a matrix, Use of matrix for solving equations.

**Probability:** Definition, Dependent and independent events, Numerical problem on addition and multiplication, theorem of probability.

**Trigonometry:** Identities, Trigonometric equations, properties of triangles, solution of triangles, heights and distances, Inverse function, Complex numbers and their properties, Cube roots of unity, De-Moivre's theorem.

**Co-ordinate Geometry:** Pair of straight lines, Circles, General equation of second degree, parabola, ellipse and hyperbola, tracing of conics.

**Calculus:** Limits & continuity of functions, Differentiation of function of function, tangents & normal, Simple examples of Maxima & Minima, Indeterminate forms, Integration of function by parts, by substitution and by partial fraction, definite integral, application to volumes and surfaces of frustums of sphere, cone and cylinder. Differential equations of first order and of first degree.

**Vectors:** Algebra of vectors, scalar and vector products of two and three vectors and their applications.

**Dynamics:** Velocity, composition of velocity, relative velocity, acceleration, composition of accelerations, Motion under gravity, Projectiles, Laws of motion, Principles of conservation of momentum and energy, direct impact of smooth bodies.

**Statics:** Composition of coplanar, concurrent and parallel forces moments and couples resultant of set of coplanar forces and condition of equilibrium, determination of centroid in simple cases, Problems involving friction.

## **PAPER – 2 (PHYSICS, CHEMISTRY & BIOLOGY)**

### **Section A, PHYSICS**

**Measurement:** Dimensional analysis and error estimation, dimensional compatibility and significant figures.

**Motion in one dimension:** Average velocity, instantaneous velocity, one-dimensional motion with constant accelerations, freely falling bodies.

**Laws of Motion:** Force and inertia, Newton's laws of motion, and their significance.

**Motion in two dimensions:** Projectile motion, uniform circular motion, tangential and radial acceleration in curve-linear motion, relative motion and relative acceleration.

**Work, Power and Energy:** Work done by a constant and variable forces, kinetic and potential energy, power, Conservative and non-conservative forces, conservation of energy, gravitational energy, work energy theorem, potential energy stored in a spring.

**Linear Momentum & collisions:** Linear momentum & impulse, conservation of linear momentum for two particle system, collisions, collision in one dimension, collision in two dimension, rocket propulsion.

**Rotation of a rigid body about a fixed axis:** Angular velocity and angular acceleration, rotational kinematics, rotational motion with constant angular acceleration relationship between angular and linear quantities, rotational energy, moment of inertia for a ring, rod, spherical shell, sphere and plane lamina, torque and angular acceleration, work and energy in rotational motion, rolling motion of a solid sphere and cylinder.

**Gravitation:** Gravitational field, Kepler's laws and motion of planets, planetary and satellite motion, geostationary satellite.

**Oscillatory motion:** Harmonic motion, oscillatory motion of mass attached to a spring, kinetic & potential energy, Time Period of a simple pendulum, comparing simple and harmonic motion with uniform circular motion, forced oscillations, damped oscillations and resonance.

**Mechanics of solids and fluids:** States of matter young's modulus, bulk modulus, shear modulus of rigidity, variations of pressure with depth, Buoyant forces and Archimedes principle, Pascal's law, Bernoulli's theorem and its application, surface energy, surface tension, angle of contact, capillary rise, coefficient of viscosity, viscous force, terminal velocity, Stoke's law, stream line motion, Reynold's numbers.

**Heat and thermodynamics:** First law of thermodynamics, specific heat of an ideal gas at constant volume and constant pressure, relation between them, thermodynamics process (reversible, irreversible, isothermal, adiabatic), second law of thermodynamics, concept of entropy and concept of absolute scale, efficiency of a Carnot engine, thermal conductivity, Newton's law of cooling, black body radiation, Wien's displacement law, Stefan's law.

**Wave:** Wave motion, phase, amplitude and velocity of wave, Newton's formula for longitudinal waves, propagation of sound waves in air, effect of temperature and pressure on velocity of sound, Laplace's

correction, Principle of superposition, formation of standing waves, standing waves in strings and pipes, beats, Doppler's effect.

**Electrostatics:** Coulomb's law, electric field and potential due to point charge, dipole and its field along the axis and perpendicular to axis, electric flux, Gauss's theorem and its applications to find the field due to infinite sheet of charge, and inside the hollow conducting sphere, capacitance, parallel plate capacitor with air and dielectric medium between the Plates, series and parallel combination of capacitors, energy of a capacitor, displacement currents.

**Current Electricity:** Concept of free and bound electrons, drift velocity and mobility, electric current, Ohm's law, resistivity, conductivity, temperature dependency of resistance, resistance in series and parallel combination, Kirchhoff's law and their application to network of resistances, principle of potentiometer, effect of temperature on resistance and its application.

**Magnetic Effect of Current:** Magnetic field due to current, Biot-Savart's law, magnetic field due to solenoid, motion of charge in a magnetic field, force on a current carrying conductors and torque on current loop in a magnetic field, magnetic flux, forces between two parallel current carrying conductors, moving coil galvanometer and its conversion into ammeter and voltmeter.

**Magnetism in Matter:** The magnetization of substance due to orbital and spin motions of electrons, magnetic moment of atoms, diamagnetism, paramagnetism, ferromagnetism, earth's magnetic field and its components and their measurement.

**Electromagnetic induction:** Induced e.m.f., Faraday's laws, Lenz's law, electromagnetic induction, self and mutual induction, B-H curve, hysteresis loss and its importance, eddy currents.

**Ray Optics and optical instruments:** Sources of light, luminous intensity, luminous flux, illuminance, photometry, wave nature of light, Huygen's theory for propagation of light and rectilinear propagation of light, reflection of light, total internal reflection, reflection and refraction at spherical surfaces, focal length of a combination of lenses, spherical and chromatic aberration and their removal, refraction and dispersion of light due to a prism, simple and compound microscope, reflecting and refracting telescope, magnifying power and resolving power.

**Wave Optics:** Coherent and incoherent sources of light, interference, young's double slit experiment diffraction due to a single slit, linearly polarized light, Polaroid.

**Modern Physics:** Photo-electric equation, matter waves, quantization, Planck's hypothesis, Bohr's model of hydrogen atom and its spectra, ionisation potential, Rydberg constant, solar spectrum and Fraunhofer lines, fluorescence and phosphorescence, X-Rays and their productions, characteristic and continuous spectra.

Nuclear Instability, radioactive decay laws, Emission of  $\alpha$ ,  $\beta$ ,  $\gamma$  rays, Mass - defect, Mass Energy equivalence, Nuclear Fission Nuclear Reactors, Nuclear Fusion.

Classification of conductors, Insulators and semiconductors on the basis of energy bands in solids, PN junction, PN Diode, junction Transistors, Transistor as an amplifier and Oscillator.

Principles of Logic Gates ( AND, OR and NOT ) Analog Vs Digital communication, Difference between Radio and television, Signal propagation, Principle of LASER and MASER, Population Inversion, Spontaneous and stimulated Emission.

## **Section B, CHEMISTRY**

**Atomic Structure:** Bohr's concept. Quantum numbers, Electronic configuration, molecular orbital theory for homonuclear molecules, Pauli's exclusion principle.

**Chemical Bonding:** Electrovalency, co-valency, hybridization involving s,p and d orbitals hydrogen bonding.

**Redox Reactions:** Oxidation number, oxidising and reducing agents, balancing of equations.

**Chemical Equilibrium and Kinetics:** Equilibrium constant (for gaseous system only) Le Chaterlier's principle, ionic equilibrium, Ostwald's dilution law, hydrolysis, pH and buffer solution, solubility product, common-ion effect, rate constant and first order reaction.

**Acid - Base Concepts:** Bronsted Lowry & Lewis. **Electrochemistry:** Electrode potential and electro-chemical series. **Catalysis:** Types and applications.

**Colloids:** Types and preparation, Brownian movement, Tyndall effect, coagulation and peptization.

**Colligative Properties of Solution:** Lowering of vapor pressure, Osmotic pressure, depression of freezing point, elevation of boiling point, determination of molecular weight.

**Periodic Table:** Classification of elements on the basis of electronic configuration, properties of s,p and d block elements, ionization potential, electronegativity & electron affinity.

**Preparation and Properties of the following:** Hydrogen peroxide. copper sulfate, silver nitrate, plaster of Paris, borax, Mohr's salt, alums, white and red lead, microcosmic salt and bleaching powder, sodium thiosulfate.

**Thermochemistry:** Exothermic & endothermic reactions Heat of reaction, Heat of combustion & formation, neutralisation, Hess's law.

**General Organic Chemistry:** Shape of organic compounds, Inductive effect, mesmeric effect, electrophiles & nucleophiles, Reaction intermediates: carbonium ion, carbanions & free radical, Types of organic reactions, Cannizzaro Friedel Craft, Perkin, Aldol condensation.

**Isomerism:** Structural, Geometrical & Optical

**IUPAC:** Nomenclature of simple organic compounds.

**Polymers:** Addition & condensation polymers

**Carbohydrates:** Monosaccharides.

**Preparation and Properties Of the Followings:** Hydrocarbons, monohydric alcohols, aldehydes, ketones, monocarboxylic acids, primary amines, benzene, nitrobenzene, aniline, phenol, benzaldehyde, benzoic acid, Grignard Reagent.

**Solid State:** Structure of simple ionic compounds, Crystal imperfections (point defects only), Born-Haber cycle

**Petroleum:** Important industrial fractions, cracking, octane number, anti-knocking compounds.

### **Section-C BIOLOGY Zoology**

**Origin of Life:** Oparin's theory, Miller's Experiment, Viruses - structure, properties, distribution, classification and pathogenesis (Eg. AIDS, CANCER), Viroids & Prions, Biotic balance.

**Organic Evolution:** Relationship among organisms and Evidences of organic Evolution - Principles of Evolution - Lamarckism, Darwinism and Speciation.

**Mechanism of Organic Evolution:** Variations - Definition, causes and types, Mutations (Principles of Hugo de'vries), Role of mutations in speciation. Evolution through ages and human evolution

**Human Genetics and Eugenics:** Human hereditary traits, study of Twins, A.B.O. blood groups and their inheritance, Rh-factor, Sex determination. Chromosomal aberrations, Important human syndromes, Sex linked characters and their inheritance, Applied Genetics - eugenics, euthenics, euphenics & I.Q. Test.

**Applied Biology:** Wild life of India - Endangered species: Biosphere Reserves, National Parks and sanctuaries, Project Tiger, Conservation of wild life, Bio-energy, Poultry, Fisheries (edible fishes), Human

Population, Population explosion, problems & control. Test - Tube babies, & Amniocentesis, Application of Biotechnology in human welfare. Human Aging.

**Mammalian Anatomy (Eg. Rabbit):** Reproductive system (excluding embryonic development) Osteology, structure and organization of different systems.

**Animal Physiology:**

(A) *Animal Nutrition:* Food, Balanced diet, Nutritional imbalances and deficiency diseases, Digestion, Absorption, Assimilation of food, (comparison between human and Rabbit).

(B) *Animal Excretion and Osmoregulation:* Chemical nature of excretory products in various animals, Physiology of excretion, Function of liver and kidney (Homeostatic regulatory functions of kidneys), Formation of urine, Osmoregulation by kidneys.

(C) *Respiratory system:* Exchange and transport of gases (O<sub>2</sub> and Co<sub>2</sub>) factors affecting O<sub>2</sub> and Co<sub>2</sub> transport, Cellular respiration, different lung volumes, breathing and sound production.

(D) *Nervous systems:* Central, autonomic and peripheral nervous system, Receptors, Effectors, Reflex-action. Nature and conduction of Nerve- impulses, Synapse, Sense organs - Structure & working of Eye & Ear, Biochemistry of vision and taste buds.

(E) *Endocrine System:* Different endocrine glands and Hormones - definition, types, characteristics and their functions, (in relation to human beings), Hormonal disorders and pheromones.

(F) *Circulatory System:* Circulation of body fluids- Blood and lymph, Open and closed vascular systems, Structure and working physiology of Heart, Comparison between arteries and veins, Lymphatic system.

(G) *Animal Diversity:* Classification of Animal kingdom (Based on Storer & Eusinger), Characteristic feature of different phyla and classes with examples.

**Detailed studies of followings:**

- (a) Protozoa
  - (i) Amoeba- Habit & Habitat, structure, locomotion, reproduction, Osmoregulation, Parasitic amoeba - Entamoeba histolytica and Entamoeba gingivalis, structure, diseases caused by them and their control measures.
  - (ii) Plasmodium vivax-life-cycle, malaria therapy and control.
  - (iii) Protozoan and diseases
- (b) Porifera: A simple sponge ( Leucosolenia); Detailed study of structure & physiology, Sponge industry.
- (c) Coelenterata: Hydra - Habit and Habitat, morphology, tissue differentiation in relation to physiological division of labour and regeneration.
- (d) Aschelminthes: Ascaris- morphology, life-cycle, therapy and control.
- (e) Annelida: Pheretima posthuma - Bionomics and economic importance.
- (f) Arthropoda: (Periplaneta): Structure- external and internal.

**Comparison between Periplaneta and Blatta.**

- (i) Housefly & Mosquito: structure and life – cycle
- (ii) Economic importance of insets & their control.

**Botany**

**Plant Cell:** Structure & functions electron microscopic structured mitochondria, Plastids centrosomes. Lysosomes, microsomes, endoplasmic reticulum, Nucleus, Golgibodes, D.N.A & R.N.A. Cytoplasm, membranes and cell wall.

**Protoplasm:** structure, components physical and chemical properties.

Cell division (formation) - free cell formation, Amitosis & Meiosis, Duplication of D.N.A.

**Ecology:** Ecological factors (atmospheric, edaphic, climatic, geological & biotic factors).

**Ecosystem:** Structure, components of ecosystem eg. Water soluble minerals and gases, producers consumers, decomposers, Pond and forest ecosystem.

Atmospheric pollution-causes and control, Types of pollution - Detergents, chemicals automobile exhaust, Radioactive matter, Smog, sound, Pesticides.

**Genetics:** Mendalism, Mendals experiment and law of inheritance.

Modern Classification of plant kingdom- (according to Ostwald & Tippo) (outline).

**Seeds in angiospermic plants:** description of development of angiospermic plants (life history of angiospermic plants).

**Fruits:** Dispersal of fruits and seeds

**Cell differentiation Plant Tissue:** Meristematic classification of meristematic & permanent tissue and functions and classification of tissue system.

**Anatomy of Root, stem and leaf:** difference between dicot and Monocot stem. Secondary growth of stem and root. Anatomy of hydrophytes, Xerophytes & Mesophytes.

**Important phylums:**

Algae: Habitat, general characters & uses, description of ulothrix & spirogyra.

Bacteria: structure - types of nutrition, reproduction and economic importance.

Fungi: structure description of Rhizopus and yeast and their economic importance, Fermentation.

Bryophyta: structure and economic importance, description of funaria (Moss)

Pteridophyta: general structures of pteridophytes description of fern (Droypteris)

General study of gymnosperms and life history of cycas.

Classification of angiosperm,

Description of families - identification and economic importance

Cruciferae, Malvaceae, Leguminosae, compositeae, cucurbitaceae.

**Soil:**

Absorption of water through root hairs osmosis, Translocation and Root pressure

Nitrogen cycle.

Special modes of nutrition in plants (Autotrophic, heterotrophic, Parasites, saprophytes, Symbionts insectivorous and their ecological relation.

**Photosynthesis:** Chloroplast, light, chlorophyll and Carbon dioxide, Mechanism of photosynthesis formation of A.T.P. and their functions and importance of photosynthesis.

Transpiration: factors and importance, Mechanism of opening and closing of stomata.

Respiration: aerobic, anaerobic respiration, mechanism of respiration (Glycolysis, Kreb's cycle, E.T.S.)

Growth & movement: definition of growth, Region of growth & their measurements, types of movements in plants, Growth hormone.

## **PAPER – 3 (AG-I, AG II & AG III)**

### **AG – I: AGRICULTURAL PHYSICS AND CHEMISTRY**

#### **Agricultural Physics**

Unit, measurement, Vernier, screw gauge, Force-analysis, force parallelogram, momentum of force, equilibrium of forces, velocity and acceleration, speed, laws of motion, gravitational motion, acceleration due to gravity, circular motion, Centrifugal and centripetal forces, pressure, Capillary force and tension, atmospheric surface-barometer, Boyle's law, friction and simple example of its laws, Working of common

pumps, operation, performance, power and energy, heat and temperature, radiation, convection and conduction, heat conductance, specific heat in relation to solids, physical change in the solid due to heat, latent heat, relationship between heat and work, dew point, relative humidity and its determination, formation of clouds, fog frost, snow and halls, weather and its forecasting.

### **Agricultural Chemistry**

Matter - solid and liquid, physical and chemical changes, element, mixture, compound, laws of chemical combination, laws of conservation, laws of proportion, laws of gases, explanation of above laws in reference to atomic principle, atomic laws, new & old concepts, definition, simple explanation and inter-relationship of the following:

Valency, atomic weight, molecular weight, equivalent weight, structure of atom, Avogadro's hypothesis and its uses, ionic theory, difference between atom and ion, explanation of the following with the help of ionic theory, electrolysis, acid, alkali, salt, water, hydrolysis and neutralisations, oxidation and reduction, classification of elements.

**Inorganic Chemistry:** Water and its hardness, methods of treatment of hard water and soft water, occurrence of compounds, properties and uses of the followings elements nitrogen, ammonia, nitric acid, carbon, carbon dioxide, phosphoric acid, sulfur dioxide, sulfuric acid, chlorine, hydrochloric acid. Occurrence properties, uses and their functions in the plants of the following: Sodium, sodium chloride, sodium hydroxide, sodium carbonate, sodium bicarbonate, sodium phosphate, sodium nitrate, potassium sulfate, Calcium, calcium oxide, calcium carbonate, calcium sulfate and calcium nitrate, Iron, sulfate and iron phosphate, aluminum, aluminum sulfate and aluminum phosphate Nitrogen cycle, Fixation of nitrogen in the soil, function of Super-phosphate and phosphorus in plant, nitrogen fertilizers.

**Organic Chemistry:** Formation of organic compounds, physical properties, nomenclature, general knowledge of the following compounds, simple formulae, general properties and main uses, Structural formula of the following: Hydrocarbon (saturated and unsaturated) alcohol ethyl alcohol and glycol, aldehyde and ketones, formaldehyde, acetone, amine and oxide, methyl and ethylamine, urea, Acids: acetic, benzoic, lactic, Oxalic acids, fats and oils, soap and saponification, carbohydrates, glucose, fructose, starch, simple methods of making benzene and phenol and their properties.

## **AG – II: AGRICULTURAL ENGINEERING AND STATISTICS**

### **Agricultural Engineering**

Properties of different materials used in agricultural implements, Classification of plough their merits, comparison, common troubles in their operation and precautions, maintenance, assembly, cost and comparison of cultivation harrow, hoe, float, scraper and seed drill, draft of implements. Their measurements, factors affecting draft. Water lifts, their discharge, capacities, command area, and cost of irrigation ( water lifts should include common water lifts and low lift pumps ). Tillage and ploughing, types of ploughing and their merits. Types and objects tillage. Chemical and Physical effects of tillage practices for different crops. Transmission of power through gears. Pulleys and belts, hand operated chaff cutters, cane crusher, winnowing fan, and splash threshers.

### **Agricultural Statistics**

Collection of data, classification and tabulation, frequency distribution, mean and their kinds, merits and demerits. Measurements of dispersion.



## **AG – III: AGRONOMY & AGRICULTURAL BOTANY**

### **Agronomy**

**Crops:** Cultivation, practices of common crops of India and their varieties..

**Soils:** Origin, classification and physical properties of soils, soil conservation.

**Manures And Manuring:** Nutrients for plants growth, uptake of N.P.K. organic and inorganic fertilizers, farmyard and green manures, their properties and method of application, knowledge of following manures and fertilizer: FYM, compost, urinated soil, castor and groundnut cake, ammonium sulfate, sodium nitrate, super phosphate, potassium sulfate, urea, CAN ammonium chloride and mixtures.

**Irrigation & Drainage:** Methods, measurement and type of irrigation and drainage systems, Cultivation practices of common vegetable and fruit crops.

### **Agricultural Botany**

External morphology of plants, function and modification of stem, root and leaves, structure and function of different parts of flower, type of inflorescence, pollen and pollination, classification, structure, germination and dispersal of seeds, type of function and their dispersal, internal morphology of plant cell, reproductive organs of angiosperms, knowledge of structure of rlltharis, Absorption, Respiration, Transpiration and carbon assimilation, root pressure, Translocation of foods and storage, Introductory knowledge of Taxonomy and plant kingdom specially Regional and Horticultural plants laminaries, Cruciferous, Leguminous, Cucurbitaceae, Solonaceae, Malbaceae, Elementary Knowledge of mosses, ferns, mucors, bacteria.

## **PAPER – 4 (APTITUDE TEST FOR ARCHITECTURE)**

### **Part – A: Mathematics & Aesthetic Sensitivity**

#### **MATHEMATICS**

**Algebra:** Sets relations & functions, De-Morgan's Law, Mapping Inverse relations, Equivalence relations, Peano's axioms, Definition of rationals and integers through equivalence relation, Indices and surds, Solutions of simultaneous and quadratic equations, A.P., G.P. and H.P., Special sums i.e.  $\sum n^2$  and  $\sum n^3$  ( $n \in \mathbb{N}$ ), Partial fraction, Binomial theorem for any index, exponential series, Logarithm and Logarithmic series. Determinants and their use in solving simultaneous linear equations, Matrices, Algebra of matrices, Inverse of a matrix, Use of matrix for solving equations.

**Probability:** Definition, Dependent and independent events, Numerical problem on addition and multiplication, theorem of probability.

**Trigonometry:** Identities, Trigonometric equations, properties of triangles, solution of triangles, heights and distances, Inverse function, Complex numbers and their properties, Cube roots of unity, De-Moivre's theorem.

**Co-ordinate Geometry:** Pair of straight lines, Circles, General equation of second degree, parabola, ellipse and hyperbola, tracing of conics.

**Calculus:** Limits & continuity of functions, Differentiation of function of function, tangents & normal, Simple examples of Maxima & Minima, Indeterminate forms, Integration of function by parts, by substitution and by partial fraction, definite integral, application to volumes and surfaces of frustums of sphere, cone and cylinder. Differential equations of first order and of first degree.

**Vectors :** Algebra of vectors, scalar and vector products of two and three vectors and their applications.

**Dynamics:** Velocity, composition of velocity, relative velocity, acceleration, composition of accelerations, Motion under gravity, Projectiles, Laws of motion, Principles of conservation of momentum and energy, direct impact of smooth bodies.

**Statics:** Composition of coplanar, concurrent and parallel forces moments and couples resultant of set of coplanar forces and condition of equilibrium, determination of centroid in simple cases, Problems involving friction.

**Aesthetic sensitivity**

Aesthetic sensitivity Test is aimed to evaluate a candidate for aesthetic Perception, Imagination, and Observation; Creativity and Communication; and Architectural awareness.

- Visualizing three dimensional objects from two dimensional drawings
- Visualizing different sides / surfaces of three dimensional objects.
- Identifying commonly used materials and objects based on their textural qualities.
- Analytical Reasoning
- Mental Ability
- Imaginative comprehension and expression
- Architectural awareness

**Part- B: Drawing Aptitude**

The Drawing Aptitude Test is aimed to evaluate a candidate for his understanding of Scale and Proportion; sense of perspective, color and; understanding of the effects of light on objects through shades and shadows

- Ability to sketch a given object proportionately and rendering the same in visually appealing manner
- Visualising and drawing the effects of light on the objects and their shadow cast on the surroundings.
- Sense of Perspective Drawing
- Combining and composing given three dimensional elements to form a building or structural form
- Creating interesting two dimensional compositions using given shapes or planner forms
- Creating visual harmony using colors in given composition
- Understanding of scale and sense of proportion

**PAPER – 5 (APTITUDE TEST FOR GENERAL AWARENESS (BHMCT/BFAD/BFA))**

**(A) Reasoning & Logical Deduction:**

- Geometrical designs & Identification
- Selection of related letters / words / numbers / figures
- Identification of odd thing / item out from a group
- Completion of numerical series based on the pattern / logic
- Fill in the blanks of the series based on the numerical pattern and logic of the series
- Syllogisms (logic based questions), Identification of logic & selection of correct answers based on the logic

**(B) Numerical Ability & Scientific Aptitude:**

- Arithmetical questions up to 10<sup>th</sup> standard

- Calculation of fraction, percentages, square roots etc.
- Profit & Loss and Interest calculations
- Data / Table analysis, Graph & Bar Diagram and Pie Chart analysis
- Questions related to common use of science (Physics & Chemistry)
- Health & Nutrition

**(C) General Knowledge:**

- Current affairs / Events (Political, Social, Cultural & Economics)
- Historical events
- Geography including Tourist Places / Spots
- Current affairs relating to Business & Trade
- Countries & Currencies
- Latest Who's Who?
- Sports & Games

**(D) English Language:**

- Word Meanings
- Antonyms & Synonyms
- Meaning of Phrases & Idioms
- Fill in the blanks
- Complete / Improvement of the sentences with correct use of Pronouns, Verbs, Adverbs & Adjectives
- Reading comprehension's followed by questions

**PAPER – 6 (APTITUDE TEST FOR DIPLOMA HOLDERS IN ENGINEERING)**

Engineering Mechanics, Engineering Graphics, Basic Electrical Engg., Basic Electronics Engg., Elements of computer science, Elementary Biology, Basic Workshop Practice and Physics/Chemistry/Maths of Diploma standard.

**PAPER – 7 (APTITUDE TEST FOR DIPLOMA HOLDERS IN PHARMACY)**

1. Pharmaceutics-I
2. Pharmaceutical Chemistry - I
3. Pharmacognosy
4. Biochemistry and Clinical Pathology
5. Human Anatomy and Physiology
6. Health Education & Community Pharmacy
7. Pharmaceutics - II
8. Pharmaceutical Chemistry - II
9. Pharmacology and Toxicology
10. Pharmaceutical Jurisprudence
11. Drug Store and Business management
12. Hospital and Clinical Pharmacy

## PAPER – 8 (APTITUDE TEST FOR B.SC. GRADUATE IN ENGINEERING)

**Linear Algebra:** Matrix Algebra, Systems of linear equations, Eigen values and eigen vectors.

**Calculus:** Mean value theorems, Theorems of integral calculus, Evaluation of definite and improper integrals, Partial Derivatives, Maxima and minima, multiple integrals, Fourier series. Vector identities, Directional derivatives, Line, Surface and Volume integrals, Stokes, Gauss and Green's theorems.

**Differential equations:** First order equation (linear and nonlinear), Higher order linear differential equations with constant coefficients, Method of variation of parameters, Cauchy's and Euler's equations, Initial and boundary value problems, Linear partial differential equations with constant coefficients of 2<sup>nd</sup> order and their classifications and variable separable method.

**Complex variables:** Analytic functions, Cauchy's integral theorem and integral formula, Taylor's and Laurent' series, Residue theorem, solution integrals.

**Probability and Statistics:** Sampling theorems, Conditional probability, Mean, median, mode and standard deviation, Random variables, Discrete and continuous distributions, Poisson, Normal and Binomial distribution, Correlation and regression analysis.

**Fourier Series:** Periodic functions, Trigonometric series, Fourier series of period 2 $\pi$ , Euler's formula, Functions having arbitrary period, Change of interval, Even and odd functions, Half range sine and cosine series.

**Transform Theory:** Laplace transform, Laplace transform of derivatives and integrals, Inverse Laplace transform, Laplace transform of periodic functions, Convolution theorem, Application to solve simple linear and simultaneous differential equations.

Fourier integral, Fourier complex transform, Fourier sine and cosine transforms and applications to simple heat transfer equations. Z – transform and its application to solve difference equations.

## PAPER – 9 (APTITUDE TEST FOR MBA)

The test is aimed at evaluating the verbal ability, quantitative aptitude, logical & abstract reasoning and knowledge of current affairs. The following is a brief description of contents of the test paper.

**Section A (English Language):** Grammar, vocabulary, uncommon words, sentence completion, synonyms, antonyms, relationship between words & phrases and comprehension of passages.

**Section B (Numerical Aptitude):** Numerical calculation, arithmetic, simple algebra, geometry and trigonometry, Interpretation of graphs, charts and tables.

**Section C (Thinking and Decision Making):** Creative thinking, unfamiliar relationships, verbal reasoning, finding patterns trends and Assessment of figures & diagrams.

**Section D (General Awareness):** Knowledge of current affairs and other issues related to trade, industry, economy, sports, culture and science.

## PAPER – 10 (APTITUDE TEST FOR MCA)

### (i) MATHEMATICS

**Modern Algebra:** Idempotent law, identities, complementary laws, Demorgan's theorem, mapping, inverse relation, equivalence relation, Pano's Axiom, definition of rational numbers and integers through equivalence relation.

**Algebra:** Surds, solution of simultaneous and quadratic equations, arithmetic, geometric and harmonic progression, Binomial theorem for any index, logarithms, exponential and logarithmic series, determinants.

**Probability:** Definition, dependent and independent events, numerical problems on addition and multiplication of probability, theorems of probability.

**Trigonometry:** Simple identities, trigonometric equations, properties of triangles, use of mathematical

tables, solution of triangles, height and distance, inverse functions, De-Moiver's theorem.

**Co-Ordinate Geometry:** Co-ordinate geometry of the straight lines, pair of straight lines, circle, parabola, ellipse and hyperbola and their properties.

**Calculus:** Differentiation of function of functions, tangents and normal, simple examples of maxima of minima, limits of function, integration of function (by parts, by substitution and by partial fraction), definite integral (application to volumes and surfaces of frustums of sphere, cone and cylinder).

**Vectors:** Position vector, addition and subtraction of vectors, scalar and vector products and their applications.

**Dynamics:** Velocity, composition of velocity, relative velocity, acceleration, composition of acceleration, motion under gravity, projectiles, laws of motions, principles of conservation of momentum and energy, direct impact of smooth bodies, pulleys.

**Statics:** Composition of co-planar, concurrent and parallel forces, moments and couples, resultant of set of coplanar forces and conditions of equilibrium, determination of Centroids in simple case, problems involving friction.

**(ii) STATISTICS**

Theory of probability, Mean, Median, Mode, Dispersion and Standard Deviation.

**(iii) LOGICAL ABILITY**

Questions to test analytical and reasoning capability of candidates.

**PAPER- 11 (APTITUDE TEST FOR 2nd Year MCA (Lateral Entry))**

**(I) MATHEMATICAL STRUCTURES**

**Modern Algebra and Matrices:** Algebraic structures and general properties, semigroups, groups. Rings and Fields: definitions, elementary properties and standard results. Matrices, operation on matrices, Inverse and rank of a matrix, Eigen values, eigenvectors and system of linear equations.

**Set Theory:** Introduction, sets and cardinals, combination of sets, multi sets and set identities. Relations - definition, operations on relations, composite relations, properties of relations, partial order relations. Functions - definition, classification of functions, operations on functions, recursively defined functions.

**Number Theory and Methods of Proof:** Natural numbers, factorization and prime numbers, floor and ceiling functions. Methods of proof – Introduction, direct and indirect methods of proof, mathematical Induction.

**Combinatorics and Probability:** Introduction, counting techniques, Pigeonhole principle. Probability –definition, sample space, algebra of events, axioms of probability, prior and posterior probability, Baye's theorem.

**(II) COMPUTING CONCEPTS**

**Principles of Computer Science:** Computer organization - evaluation of computers, computer arithmetic, control design, processor design, input output organization, memory organization. Data Structures – Arrays, lists, stacks, queues. Trees and graphs - definition, properties and applications. Analysis of algorithms.

**Proposition logic and Boolean Algebra:** Propositions, truth tables, tautology, contradiction, algebra of propositions. Binary systems, axioms and theorems of Boolean algebra, Boolean functions and digital circuits.

**Numerical Techniques:** Floating point Arithmetic, solution of the system of linear equations, roots of polynomials, interpolation and curve fitting.

**Theory of Computation:** Finite-state machines, regular and non-regular languages, Turing machines and applications.

**(III) REASONING ABILITY**

Questions in this part will be aimed to assess the reasoning and logical ability of the candidates.

## Appendix-B

### (i) LIST OF BRANCHES OF ALL THE COURSES

NAME OF BRANCHES	BRANCH CODE	STREAM
Aeronautical Engineering	AE	B.Tech.
Agricultural Engineering	AG	B.Tech
Applied Electronics & Instrumentation	AI	B.Tech
Architecture	AR	B.Arch.
Automobile Engineering	AU	B.Tech.
Bio Chemical Engineering	BC	B.Tech
Building Engg. & Construction Technology (Architecture)	BE	B.Arch.
Bio Medical Engineering	BM	B.Tech.
Bachelor of Pharmacy	BP	B.Pharm
Bio-Technology	BT	B.Tech.
Chemical & Alcohol Technology	CA	B.Tech.
Civil Engineering	CE	B.Tech.
Chemical Engineering	CH	B.Tech.
Computer Science	CO	B.Tech.
Computer Science & Engineering	CS	B.Tech.
Computer Science & Information Technology	CSI	B.Tech.
Electronics & Communication Engineering	EC	B.Tech.
Electrical Engineering	EE	B.Tech.
Electronics & Instrumentation Engineering	EI	B.Tech.
Electronics Engineering	EL	B.Tech.
Electrical & Electronics Engineering	EN	B.Tech.
Electronics & Telecomm Engineering	ET	B.Tech.
Electronics Instrumentation & Control	EX	B.Tech.
Environmental Engineering	EV	B.Tech.
Electronics & Computer Engineering	ECZ	B.Tech.
Electrical & Computer Engineering	EZ	B.Tech.
Fashion & Apparel Design	FD	B.FAD
Food Technology	FT	B.Tech.
Hotel Management	HM	BHMCT
Instrumentation & Control	IC	B.Tech.
Interior Design (Architecture )	ID	B.Arch
Instrumentation Engineering	IN	B.Tech.
Industrial Production Engg.	IP	B.Tech.
Information Technology	IT	B.Tech.
Leather Technology	LT	B.Tech.
Mechanical Engineering	ME	B.Tech.
Manufacturing Technology	MF	B.Tech.
Man Made Fiber Technology	MM	B.Tech.

Marine Engineering	MR	B.Tech.
Material & Metallurgical Engineering	MST	B.Tech.
Metallurgical Engineering	MT	B.Tech.
Mechanical & Industrial Engineering	MX	B.Tech.
Oil Technology	OT	B.Tech.
Production Engineering	PE	B.Tech.
Planning (Architecture)	PA	B.Arch.
Production & Industrial Engineering	PI	B.Tech.
Plastic Technology	PL	B.Tech.
Paint Technology	PT	B.Tech.
Textile Chemistry	TC	B.Tech.
Textile Technology	TT	B.Tech.
Textile Engineering	TX	B.Tech.
Fine Arts	FA	BFA

**(ii) LIST OF BRANCHES OF MBA & MCA COURSES**

NAME OF BRANCHES	BRANCH CODE	STREAM
Master of Business Administration (MBA)	M1	MBA
Master of Business Administration _Business Economics	M2	MBA
Master of Business Administration Finance & Control	M3	MBA
Master of Business Administration Tourism Management	M4	MBA
Master of Business Administration International Business (IB)	M5	MBA
Master of Business Administration Financial Management (FM)	M6	MBA
Master of Business Administration_Agri. Business	M17	MBA
Master of Business Administration Marketing	M20	MBA
Master of Business Administration_E-Commerce	M21	MBA
Master of Business Administration Human Research & Development	M22	MBA
Master of Computer Applications	MCA	MCA

**Appendix C**

**List of Institutions/Branches/Intake of UG & PG Courses**

**Please see the Website: <http://www.upsee.nic.in> or <https://aktu.ac.in>**

**CERTIFICATE – 1 (प्रमाण पत्र-1)**

**अनुसूचित जाति/जनजाति (UPSC/UPST/GDSC/GDST)**

(अभ्यर्थी के जन्म जिले के जिला मजिस्ट्रेट/प्रथम श्रेणी मजिस्ट्रेट द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0 ..... पुत्र/पुत्री श्री .....  
... निवासी गाँव/शहर ..... तहसील ..... जिला .....  
.....प्रदेश ..... का जन्म ..... जाति में हुआ था और यह जाति अनुसूचित  
जाति/जनजाति आदेश (संशोधन) एक्ट 1956 के अन्तर्गत भारत सरकार/उत्तर प्रदेश शासन .....  
..... सरकार द्वारा मान्य अनुसूचित जाति/जनजाति है।

अभ्यर्थी के हस्ताक्षर

दिनांक

स्थान

हस्ताक्षर

नाम

मोहर

जिला अधिकारी / अतिरिक्त जिला अधिकारी /

सिटी मजिस्ट्रेट / परगना मजिस्ट्रेट / तहसीलदार

Note: Proforma of certificate shall be changed according to latest Govt. order.

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## CERTIFICATE – 2 (प्रमाण पत्र-2)

### उत्तर प्रदेश के अन्य पिछड़े वर्ग के लिए जाति प्रमाण पत्र का प्रपत्र (UPBC/GDBC)

यह प्रमाणित किया जाता है कि श्री/श्रीमती /कुमारी ..... सुपुत्र/सुपुत्री  
श्री .....निवासी ग्राम .....  
तहसील ..... नगर ..... जिला ..... उत्तर प्रदेश राज्य  
की ..... पिछड़ी जाति के व्यक्ति हैं। यह जाति उत्तर प्रदेश लोक सेवा अनुसूचित  
जातियों । अनुसूचित जनजातियों तथा पिछड़े वर्गों के लिए आरक्षण अधिनियम, 1994 की अनुसूची – 1  
के अन्तर्गत मान्यता प्राप्त है।

यह भी प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी ..... उक्त  
अधिनियम 1994 की अनुसूची –2 (अधिसूचना संख्या –22/16/92–का 02/1995 टी0 सी0 दिनांक  
8 दिसम्बर, 1995 द्वारा यथा संशोधित) से आच्छादित नहीं है।

श्री/श्रीमती/कुमारी ..... तथा अथवा उनका परिवार उत्तर प्रदेश के  
ग्राम ..... नगर ..... जिला .....  
... में सामान्यतया रहता है।

अभ्यर्थी के हस्ताक्षर

दिनांक

हस्ताक्षर

नाम

स्थान

मोहर

जिला अधिकारी / अतिरिक्त जिला अधिकारी /

सिटी मजिस्ट्रेट / परगना मजिस्ट्रेट / तहसीलदार

नोट– अभ्यर्थी ध्यान दें कि उ0प्र0 के अन्य पिछड़े वर्ग के लिए जाति प्रमाण अप्रैल 01, 2018 के पश्चात का बना हुआ  
होना आवश्यक है क्योंकि कीमीलेयर के अन्तर्गत आने वाले अभ्यर्थियों को आरक्षण का लाभ अनुमन्य नहीं है।

### CERTIFICATE – 3 (प्रमाण पत्र-3)

उत्तर प्रदेश के मूल/सामान्य निवासी के पुत्र/पुत्री (UPGD/GDSC/GDST/GDBC)  
(उस जिले के अधिकारी द्वारा प्रमाणित जिस जिले के माता/पिता निवासी है)

यह प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के पिता/माता का नाम) .....  
...पिता/माता श्री/कु0(अभ्यर्थी का नाम)..... उत्तर प्रदेश के  
गाँव/शहर ..... तहसील ..... जिला ..... के मूल  
निवासी हैं तथा श्री/कु0 (अभ्यर्थी का नाम) ..... अपने पिता/माता पर  
पूर्णतया आश्रित हैं। उक्त पते पर श्री/कु0 (अभ्यर्थी का नाम) ..... के  
माता/पिता सामान्यतः निवास करते हैं।

दिनांक  
स्थान

हस्ताक्षर जिला मजिस्ट्रेट  
पूरा नाम  
पदनाम  
मुहर (जिला मजिस्ट्रेट की सील)

जिला मजिस्ट्रेट अथवा जिला मजिस्ट्रेट द्वारा अधिकृत अपर जिला मजिस्ट्रेट/सब डिवीजन मजिस्ट्रेट द्वारा  
प्रमाण पत्र ही मान्य होंगे जो शा0आ0 सं0-157/तीन -2003-77(II)/83 दिनांक 18 फरवरी, 2003 के  
अधीन जारी किया जायेगा।

नोट- प्रमाण पत्र-3 अभ्यर्थी के माता/पिता का बना होना चाहिए क्योंकि अभ्यर्थी जिन्होंने अर्हकारी  
परीक्षा उत्तर प्रदेश के बाहर स्थित किसी विद्यालय से उत्तीर्ण की है परन्तु उनके माता/पिता उत्तर  
प्रदेश के मूल/स्थाई निवासी हैं परीक्षा में बैठने के पात्र हैं।

### CERTIFICATE – 4 (प्रमाण पत्र-4) (Sub-Category UPPF)

उत्तर प्रदेश लोक सेवा (शारीरिक रूप से विकलांग, स्वतंत्रता संग्राम सेनानी के आश्रितों और भूतपूर्व  
सैनिकों के लिए आरक्षण) अधिनियम, 1993 के अनुसार स्वतंत्रता संग्राम सेनानी के आश्रित के प्रमाण पत्र  
का प्रपत्र

प्रमाणित किया जाता है कि श्री/श्रीमती (स्वतंत्रता संग्राम सेनानी का नाम) .....  
निवासी ग्राम ..... तहसील ..... नगर .....  
जिला ..... उत्तर प्रदेश लोक सेवा (शारीरिक रूप से विकलांग, स्वतंत्रता संग्राम सेनानी  
के आश्रितों और भूतपूर्व सैनिकों के लिए आरक्षण) अधिनियम 1993 के अनुसार स्वतंत्रता संग्राम सेनानी हैं  
और श्री/श्रीमती/कु0(आश्रित अभ्यर्थी का नाम) .....  
पुत्र/पुत्री/पौत्र/अविवाहित पौत्री उपरांकित अधिनियम, 1993 के ही प्रावधानों के अनुसार उक्त  
श्री/श्रीमती (स्वतंत्रता संग्राम सेनानी) ..... के आश्रित हैं।

दिनांक  
स्थान

हस्ताक्षर  
पूरा नाम एवं पदनाम  
मुहर (जिला मजिस्ट्रेट की सील)

Note: Proforma of certificate may be changed according to latest Govt. order.

## CERTIFICATE – 5 (प्रमाण पत्र-5)

उत्तर प्रदेश/सेना दल (Sub-Category UPAF)

(अंतिम यूनिट के आफिसर कमान्डिंग/जिला सैनिक कल्याण बोर्ड द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के पिता अथवा माता का नाम) .....  
निवासी गाँव/शहर ..... तहसील ..... जिला .....  
.....उत्तर प्रदेश, के दिनांक .....को सेवा निवृत्त (Superannuated) युद्ध में मारे गये/अपंग  
हो गये/उत्तर प्रदेश में वर्तमान में तैनात है। वे भारतीय थलसेना/जलसेना/वायुसेना के स्थान .....  
..... दिनांक..... से दिनांक ..... तक कार्यरत थे/हैं।

दिनांक  
स्थान

यूनिट कमान्डिंग आफिसर के हस्ताक्षर  
नाम  
मोहर

(जिला मजिस्ट्रेट द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी) ..... निवासी .....  
.....उत्तर प्रदेश गाँव/शहर ..... तहसील ..... जिला ..... उपरोक्त  
सेना दल के सेवा निवृत्त (Superannuated) युद्ध में मारे गये या अपंग हो गये कर्मचारी जो उत्तर प्रदेश  
के स्थायी निवासी हैं/थे, के पुत्र/पुत्री हैं अथवा प्रवेश परीक्षा की तिथि को उत्तर प्रदेश भारतीय  
थलसेना/जल सेना/वायुसेना में कार्यरत थे/हैं।

दिनांक  
स्थान

हस्ताक्षर  
नाम  
मोहर

## CERTIFICATE – 6 (प्रमाण पत्र-6) (Sub-Category UPHC)

शारीरिक विकलांग के अधिमान के लिए प्रमाण पत्र (मुख्य चिकित्सा अधिकारी द्वारा प्रमाणित)

1- यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी) .....पुत्र/पुत्री  
श्री (पिता का नाम) .....नीचे लिखे कारणों से शारीरिक रूप से विकलांग  
हैं।

(केवल मुख्य चिकित्सा अधिकारी ही कारण लिखें).....

2. अभ्यर्थी की उपरोक्त विकलांगता को निम्न प्रकार की विकलांगता की श्रेणी में रखा जा सकता है।  
(कृपया ✓ का निशान लगायें)

Type - I: Minimum 40% permanent Visual impairment	
Type-II: Minimum 40% permanent Locomoter disability	
Type-III: Minimum 40% permanent Speech Hearing impairment	

3- यह भी प्रमाणित किया जाता है कि उपरोक्त विकलांग स्थिति अभ्यर्थी के इन्जीनियरिंग शिक्षा प्राप्त करने में बाधक नहीं होगी।

अभ्यर्थी के हस्ताक्षर  
नाम  
दिनांक

चिकित्साधिकारी के हस्ताक्षर  
नाम  
मुहर

**CERTIFICATE – 7 (प्रमाण पत्र-7)**  
उत्तर प्रदेश ग्रामीण क्षेत्र के लिये अधिमान (UPGE)  
(कालेज के प्रधानाचार्य द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी) ..... ने .....  
..... कालेज गाँव ..... से इण्टरमीडिएट की शिक्षा प्राप्त की।  
यह कालेज तहसील ..... जिला ..... उत्तर प्रदेश के ग्रामीण क्षेत्र  
में स्थित हैं तथा ग्राम पंचायत के कार्य क्षेत्र के सीमा के अन्दर है और यह क्षेत्र औद्योगिक विकसित क्षेत्र  
नहीं है।

दिनांक ..... हस्ताक्षर .....

स्थान ..... नाम  
मुहर

(जिला विद्यालय निरीक्षक एवं जिला मजिस्ट्रेट द्वारा प्रमाणित)

प्रधानाचार्य द्वारा दिया गया कालेज की स्थिति से संबंध उपरोक्त वक्तव्य प्रमाणित किया जाता है।

दिनांक	हस्ताक्षर जिला विद्यालय निरीक्षक
स्थान	नाम
	मुहर
दिनांक	प्रति हस्ताक्षरित जिला मजिस्ट्रेट
स्थान	नाम
	मुहर

**CERTIFICATE – 8 (प्रमाण पत्र-8)**  
**CHARACTER CERTIFICATE FROM THE HEAD OF**  
**THE INSTITUTION LAST ATTESTED**

This is to certify that Sri / Km. \_\_\_\_\_  
has been a bonafide student of  
\_\_\_\_\_ from \_\_\_\_\_ to  
\_\_\_\_\_ and  
has passes / appeared at the  
\_\_\_\_\_ examination in the year \_\_\_\_\_

**Proctorial reports:**

- |   |          |
|---|----------|
| 1. Has he / she involved himself / herself if any act of indiscipline ?   | Yes / No |
| 2. Has he / she been warned, Fined or punished for any act of indiscipline?   | Yes / No |
| 3. Has he / she been restricted or expelled from Hostel of College for any reason?  | Yes/ No  |
| 4. Has he / she been involved in any act of indisiple outside the College campus like group clashes or fraction fights etc. | Yes/ No  |
| 5. Has he / she been addicted to drugs or intoxicants?  | Yes/ No  |

**General remarks (Please state your assessment of the student)**

**Date :**

Signature \_\_\_\_\_

Name \_\_\_\_\_

Designation \_\_\_\_\_

## CERTIFICATE – 9 (प्रमाण पत्र-9)

### \* FORMAT FOR MEDICAL CERTIFICATE

(To be obtained from a Chief Medical Officer or Medical Officer of a participating U.P. State Funded Engg. Institute)

This certificate has to be submitted at the time of admission in the college allotted.

Name of Candidate:				Age:	Sex:	
UPSEE-2017 Roll No.:		Category:		Subcategory & Weightage:		
State Rank Position:			Father's Name:			
( To be filled in by the Candidate )						
L.T.	M.I.	VISION	Colour Vision:			
Height	Weight		Chest	Abdomen	Without glass:	With glass:
History	Operation	Kockh's	Colics	B.P.		
	Seizures	Asthma	Piles	Diabetes		
E X A M I N A T I O N	Pulse	Tonsil	DNS	Hernia		
	Pallor	L.Nodes	CSOM	Hydrocele		
	Cardiovascular		CNS			
	Respiratory		GIT			
Genitourinary		Others				
Is the candidate physically handicapped/Disabled			(Please tick) Yes / No			
If yes, type of handicap/disability:			Type -I: Minimum 40% permanent Visual			
(Please tick ✓ the type of handicap/disability)			Type-II: Minimum 40% permanent Locomoter			
disability			Type-III: Minimum 40% permanent speech			
and			Hearing impairment			
Any other finding:						
Certified that the candidate is physically fit/unfit/temporally disqualified to pursue engineering studies						

Signature of Candidate

Signature of the issuing Medical Officer ( with Official stamp)

## CERTIFICATE – 10 (प्रमाण पत्र-10)

### UNDERTAKING BY CANDIDATE FOR MEDICAL FITNESS

I certify that I have no such physical handicap/disability which would hinder the pursuit of studies in the courses in which I am seeking admission. If at stage it is found that I have a physical handicap/ disability which would hinder the pursuit of studies in the courses in which I am seeking admission then my admission will be liable to be cancelled. I will produce medical fitness certificate from a C.M.O./C.M.S. at the time of my joining the institution allotted by UPSEE-2017 counselling.

Dated:

Counter Signed by Father / Guardian

Signature of the Candidate

## CERTIFICATE – 11 (प्रमाण पत्र-11)

### अखिल भारतीय सेवा के उ0प्र0 कैंडर के अधिकारियों/कर्मचारियों हेतु

प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के माता/पिता का नाम) .....  
..पदनाम .....विभाग का नाम ..... कैंडर संख्या .....  
.....अखिल भारतीय सेवा के उ0प्र0 कैंडर के अधिकारी/कर्मचारी है तथा वर्तमान में इस कार्यालय में  
कार्यरत हैं। यह प्रमाण पत्र इनके पुत्र/पुत्री (अभ्यर्थी का नाम) .....को  
डा0 ए0पी0जे0 अब्दुल कलाम प्राविधिक विश्वविद्यालय उत्तर प्रदेश, लखनऊ के अन्तर्गत प्रवेश हेतु प्रदान  
किया जाता है।

दिनांक: .....

हस्ताक्षर

विभागाध्यक्ष/कार्यालयाध्यक्ष का

नाम एवं पदनाम  
मुहर

## CERTIFICATE-12 (प्रमाण पत्र-12) (Income Certificate)

क्षेत्रीय भूलेख निरीक्षक तथा लेखपाल की जांच रिपोर्ट के आधार पर प्रमाणित किया जाता है कि  
----- (आवेदक के अभिभावक/माता/पिता का नाम) सुपुत्र  
----- निवासी/ग्राम ----- परगना  
----- तहसील ----- नगर ----- जिला  
----- राज्य ----- के स्वयं की मासिक आय रूपया  
----- तथा वार्षिक आय रूपया ----- है।  
लेखपाल की रिपोर्ट के अनुसार आय का स्रोत ----- है।

स्थान:

दिनांक:

तहसीलदार  
मुहर

नोट— अभ्यर्थी ध्यान दें कि उ0प्र0 के आर्थिक रूप से कमजोर अभ्यर्थियों के लिए प्रमाण पत्र अप्रैल 01,  
2018 के पश्चात का बना हुआ होना आवश्यक है।

## Appendix - E

The UPSEE-2018 will be held at various cities as given in the following tables. The candidates are advised to give three choices of examination cities.

- (i) Paper 1, Paper 2, Paper 3 and Paper 4 are OMR based Tests and shall be held in various cities given in the Examination City Table-I
- (ii) Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10, and Paper 11 are Computer based Tests and shall be held in various cities given in the Examination City Table-II.

Examination City Table-I  
(OMR Based Test)  
[For Paper 1, Paper 2, Paper 3 and Paper 4]

Cities in State of	17. Sultanpur	34. Mirzapur
U.P.	18. Deoria	35. Bijnor
1. Agra	19. Gorakhpur	36. Moradabad
2. Firozabad	20. Kushinagar	37. Muzaffarnagar
3. Mathura	21. Jalaun (Orai)	38. Saharanpur
4. Aligarh	22. Jhansi	39. Ghazipur
5. Allahabad	23. Etawah	40. Jaunpur
6. Azamgarh	24. Kanpur Nagar	41. Varanasi
7. Ballia	25. Kanpur Dehat	
8. Mau	26. Lakhimpur Kheri	Cities in Other States
9. Bareilly	27. Lucknow	42. Bhopal
10. Shahjahanpur	28. Raebareli	43. Dehradun
11. Basti	29. Sitapur	44. Delhi
12. Banda	30. Bulandshahr	45. Patna
13. Gonda	31. Gautam Buddha Nagar	46. Ranchi
14. Ambedkar Nagar	(Noida/Greater Noida)	47. Jaipur
15. Barabanki	32. Ghaziabad	48. Kolkata
16. Faizabad	33. Meerut	49. Mumbai

Examination City Table-II  
(Computer Based Test)

[For Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10, and Paper 11]

1. Agra	7. Ghaziabad	12. Lucknow
2. Aligarh	8. Gorakhpur	13. Mathura
3. Allahabad	9. Gautam Buddha Nagar (Noida / Greater Noida)	14. Meerut
4. Ambedkar nagar	10. Jhansi	15. Moradabad
5. Bareilly	11. Kanpur	16. Muzaffarnagar
6. Bijnaur		17. Varanasi

- (iii) Candidates are advised to be very careful while giving their options for city of examination centre. Candidates are advised to choose cities of examination on the basis of the paper he/she has opted from the respective tables i.e Examination City Table-I and/or Examination City Table-II.
- (iv) In case, candidate has opted papers in such a manner that some of these papers are the OMR based Tests (Paper 1, Paper 2, Paper 3 and Paper 4) and some of these papers are Computer based Tests (Paper 5, Paper 6, Paper 7, Paper 8, Paper 9, Paper 10 and Paper 11), the choices for city of examination must be chosen from the Examination City Table-II only.  
For example,
- (a) If a candidate opts for Paper 1 only, he/she should refer to the Examination City Table-I.
- (b) If a candidate opts for Paper 5 only, he/she should refer to the Examination City Table-II.
- (c) If a candidate opts for two papers Paper 1 and Paper 5, he/ she should refer to the Examination City Table-II.
- (v) If any candidate chooses cities of examination where the examination for the paper opted is not being conducted, he/she shall be allotted an examination city from the respective list and same shall be binding upon the candidate.
- (vi) Certain examination cities may be cancelled if sufficient number of candidates does not opt for that city. Request for change of city of examination shall not be entertained under any circumstances.

## Appendix-F

अनुसूचित जाति, अनुसूचित जनजाति एवं ओबीसी जातियों का नाम

**The list of SC/ST/OBC categories shall be as notified by the Government of Uttar Pradesh as applicable on the day of counselling / admission.**

**The benefit of reserved categories/ subcategories/ rural weightage shall be admissible only upon submission of the required certificate in the format as given in Appendix-D.**



## IMPORTANT DATES

Opening of the link for Filling and Submission of <b>On-Line</b> Application Form form through the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a>	January 23, 2018 (11.00 AM)
Last Date for Filling and submitting the On-Line Application Form	March 15, 2018 (5.00 PM)
On-Line Partial Correction of filled and submitted On Line Application form through the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a>	Upto April 05, 2018 (5:00Pm)
Opening of Link for Downloading of the Admit Card from the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a>	From April 20, 2018,11.00 AM till date of examination
Dates of Examination (as applicable)	April 29, 2018 May 05, 2018 and May 06, 2018 for Various Courses
Declaration of UPSEE-2018 Result	In the First week of June 2018
<p>Note:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> The Application Form can be filled On-Line only through the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a></li> <li><input type="checkbox"/> The Confirmation page printed after submission of On-Line Application Form need to be preserved by the candidates. Print-out/ hard copy/ photocopy of Confirmation page or any other document need not be sent to the University.</li> <li><input type="checkbox"/> The Admit Card shall be available to the candidates only through the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a></li> </ul>	

## SCHEDULE OF EXAMINATION

Date of Examination	Paper Code	Subjects	Timing (Total Time Period)
29 <sup>th</sup> April, 2018 (Sunday)	Paper 1	Physics, Chemistry and Mathematics	10:00 AM to 1:00 PM (3 Hours)
	Paper 2	Physics, Chemistry and Biology	
	Paper 3	AG-I, AG-II and AG-III	
	Paper 4	Aptitude Test for Architecture	3.00 PM to 5:30 PM (2 Hours 30 Minutes)
5 <sup>th</sup> May, 2018 (Saturday)	Paper 5	Aptitude test for General Awareness (BHMCT/BFAD/BFA/MBA(Intg))	10:00 AM to 11:30 AM (1 Hour 30 Minutes)
	Paper 6	Aptitude Test for Diploma Holders in Engg.	2:30 PM to 4:00 PM (1 Hour 30 Minutes)
	Paper 7	Aptitude Test for Diploma Holders in Pharmacy	
	Paper 8	Aptitude Test for B.Sc. Graduates	
6 <sup>th</sup> May, 2018 (Sunday)	Paper 09	Aptitude Test for MBA	9:00 AM – 11:00 AM (2 Hours )
	Paper 10	Aptitude Test for MCA	1:00 PM – 3:00 PM (2 Hours )
	Paper 11	Aptitude Test for 2 <sup>nd</sup> Year MCA (Lateral Entry)	4:00 PM –6:00 PM (2 Hours )

# U.P. STATE ENTRANCE EXAMINATION

Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh

(Formerly U.P. Technical University, Lucknow)

Sector -11, Jankipuram Extension, Lucknow

## INFORMATION BROCHURE

### UPSEE – 2019

[ENGLISH VERSION]

For Admission to

**First Year of B. Tech./B.Arch./B.Des./B.Pharm./  
BHMCT/BFAD/BFA/B. Voc./MBA/MBA(Integrated)  
/MCA/MCA(Integrated)/M Tech (Dual Degree)  
M.Tech\*/M. Arch\*/M. Pharm\*/M. Design\***

And

**2<sup>nd</sup> Year of B. Tech./B.Pharm./MCA (Lateral Entry)**

***Opening Date for filling of On-Line Application:***

January 23, 2019 (02:00 PM)

***Last Date for Submission of Application:***

March 15, 2019 (05:00 PM)

***Date of Examination***

April 21, 2019 (Sunday)

Website

<http://www.upsee.nic.in>

#### **Help Desk**

TOLL FREE : 1800-1800161

Alternate Contact : 0522-2336800, 0522-2336811

E-Mail : [upsee.helpdesk@aktu.ac.in](mailto:upsee.helpdesk@aktu.ac.in)

#### **Contact Address:**

Registrar

**Dr A.P.J. Abdul Kalam Technical University, Uttar Pradesh**

Sec-11, Jankipuram Extension, Lucknow – 226 031 (U.P) India

Phone: 0522 – 2771079, Fax: 0522 – 2732185

E-Mail : [registrar@aktu.ac.in](mailto:registrar@aktu.ac.in)

Website : <https://aktu.ac.in>

\* Refer Separate Admission Guidelines available on [www.upsee.nic.in](http://www.upsee.nic.in) for M. Tech/M. Pharm/M. Arch/M. Design

**For Admission to First Year of B. Tech. / B. Tech.(Biotechnology)/  
B. Tech. (Agriculture Engg.) / B. Arch. / B. Des. /B. Pharm. /BHMCT /BFAD /BFA/ B. Voc  
MBA/ MBA(Integrated) / MCA/ MCA(Integrated) / M Tech (Dual Degree) and  
2<sup>nd</sup> Year (Lateral Entry) of B. Tech./B. Pharm./MCA**

1. **Application to the UPSEE-2019 can be made On-Line only.** Candidates are required to fill the Application Form On-Line through the website <http://www.upsee.nic.in>.
2. On-Line application form through the website <http://www.upsee.nic.in> can be submitted from **23rd January 2019 (02:00 PM) to 15th March 2019 (05:00PM)**
3. Candidates are advised to read this Information Brochure carefully, check their eligibility and applicable reservation category etc. before filling and submitting the application form.
4. This Entrance Examination is open to the candidates who have passed the qualifying examination from any institution located in U.P. or whose parents are domicile of U.P subject to the eligibility conditions given in this Information Brochure. If the candidate has passed qualifying examination from outside U.P., he/she has to produce domicile certificate of his/her parents (**Father OR Mother only**) at the time of verification of the document.
5. **This Entrance Examination is also open to the candidates who have passed the qualifying examination from any institution located outside U.P. and whose parents (both Father and Mother) are not domicile of U.P. subject to the eligibility conditions given in this Information Brochure.**
6. Please note that candidates do not need to send “Confirmation Page” printed after completion and submission of On-Line application form to the University. However, the Candidate should keep the print out of the Confirmation page for record. Candidates are also advised to note down the **Application Form Number** for any future correspondences.
7. The On-Line application to UPSEE-2019 can be filled and submitted as per clause 18, clause 19, clause 20 and clause 21 of the Information Brochure.
8. Candidates do not need to send hard copy / photo copy of any document, whatsoever, to the University at this stage.
9. <sup>1</sup> **20% of the total sanctioned seats available for admission in first year in all courses in institutions affiliated to AKTU without reservation subject to eligibility conditions given in this Information Brochure. Thus, 20% of the total sanctioned seats for admission in first year of all courses in Institutions affiliated to AKTU shall be open to all the candidates. These seats shall be filled on the basis of UPSEE-2019 Merit.**
10. There is no age limit for admission to the courses covered in UPSEE-2019.
11. Accepting admission in any institution implies acceptance by the candidate and his/her parents or guardians with all the provisions given in this Information Brochure. Any change in the rules, regulations, fee and special conditions etc. of that institution shall apply to the admitted candidate.
12. Candidates filling the On-Line Application Form are required to upload scanned images of his/her latest color photograph and signature. Application forms having blurred photographs are liable to be rejected.
13. Candidates claiming advantage of reserved categories, sub-categories, rural weightage etc. must be required to indicate in the Application Form and are not required to send any certificate to the University at this stage. These certificates, in original, will have to be produced at the time of Documents Verification along with one self attested copy of each one of them. The proforma of the certificates are given at the end of this Information Brochure at Appendix-D, which are subject to change even upto the date of admission, as per the orders of Govt. of Uttar Pradesh. **Note that the Certificate No. 2 for OBC candidates will be entertained only if it is valid as on 31.07.2019, in case a certificate has no validity mentioned it should be issued on or after 01.04.2019 (mandatory due to condition of creamy layer for OBC).**
14. Candidates who are due to appear for the qualifying examination or have appeared, but results are awaited, are also eligible to appear in the UPSEE-2019. However, the candidates in respect of whom, the result of the qualifying examination has not been declared till the date of the document verification, due to any reason whatsoever, **shall not be eligible** for admission **under any circumstances**.
15. The result of UPSEE-2019 declared by Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow shall be final. However, the candidate can get his/her answer sheets scrutinized on payment of Rs. 5000/- per paper within seven days of declaration of result. The application for scrutiny may be submitted to the Registrar, Dr. A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow (U.P.)

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<sup>1</sup> May Change as per latest State Govt. order upto the date of counselling.

- 226031 in writing.
16. If any document/declaration submitted by the candidate is found to be false at any stage, his/her admission shall be cancelled, and he/she may be liable for prosecution under the law. In case of any legal dispute, the jurisdiction will be limited to Lucknow courts only.
  17. The candidate must himself/ herself ensure about his/her eligibility to appear in the Entrance Examination. If a candidate, who is not eligible to appear in the examination, does so; he/ she will not have any claim whatsoever, for admission to any course through UPSEE-2019.
  18. The Entrance Examination Fee for UPSEE-2019 is Rs. 1300.00 for Male/Transgender candidates of General & OBC category and Rs. 650.00 for Female/ Physically Handicapped candidates of all categories /SC/ST candidates.
  19. The number of Colleges / Institutions, courses and seats may increase or decrease upto the counselling dates.
  20. If any of the qualifying examination Board/University awards only letter grades without providing an equivalent percentage of mark on the gradesheet, the candidate should obtain a certificate from the Board/ University specifying equivalent marks and submit it at the time of document verification. In case, such a certificate is not provided by the candidate, the decision of the Central Admission Board (CAB) regarding his / her eligibility shall be final.
  21. The allotment of seat through counseling will be carried out strictly in accordance with the UPSEE-2019 merit of the candidate, subject to the order of preference given for the seats and availability of seat in the category. **Once the seat is allotted to the candidate, no change in the Institution / Branch is admissible.**
  22. **The fee paid at the time of counseling by the candidate, after the allotment of seat will be forfeited and will not be refunded under any circumstances, even if the candidate does not report for the admission to the allotted institutions.**
  23. No tuition fee shall be charged from eligible SC/ST candidates by the institutions affiliated to AKTU, Lucknow at the time of granting admission as per U.P. Govt. order no. 37 Bha Saa./26-03-04-4(77)/02 dated:18-06-04. A relaxation in the tuition fee amount equal to tuition fee of Government Institutions has been granted to OBC / General Category economically weaker students by the Govt. vide order no. 4136/solah-1-2008-135/2008 dated: 8-10-08 and 2991/solah-1-2008-14(34)/2008 dated: 16-09-08. The candidate will have to produce there required prescribed certificate/document since the institution as enforced vide G.O. no. 6048/solah-1-2008-1(17)/2008 dated 06-01-08. Govt. orders released time to time shall be applicable. The institutions will charge tuition fee after granting this relaxation to the eligible candidates as per the current fee structure determined by the fee determination committee.
  24. This Information Brochure is in both English and Hindi languages. In case of any discrepancy the English version shall be final for all purposes.
  25. All information about UPSEE-2019 shall be made through University Website <http://www.upsee.nic.in> or <https://aktu.ac.in>. The candidates are advised to refer to this website regularly/frequently failing which AKTU will not be responsible for any loss due to the lack of communication.
  26. In case of any deficiency in application form, it is likely to be rejected and sole responsibility of its consequences will lie on the candidate and representation in this regard shall not be entertained.
  27. Abbreviations used:
 

AKTU	-	Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow
AIU	-	Association of Indian Universities
UPSEE	-	Uttar Pradesh State Entrance Examination
B. Tech.	-	Bachelor of Technology
B. Pharm.	-	Bachelor of Pharmacy
B. Arch.	-	Bachelor of Architecture
B. Des*	-	Bachelor of Design*
BHMCT	-	Bachelor of Hotel Management & Catering Technology
BFAD	-	Bachelor of Fashion & Apparel Design
BFA	-	Bachelor of Fine Arts
MBA	-	Master of Business Administration
MCA	-	Master of Computer Application
SAT II	-	Scholastic Assessment Test II

\* This programme is currently offered by UP Institute of Design located in Noida Campus of Dr. APJ Abdul Kalam Technical University, Uttar Pradesh.

**Note:** UPSEE-2019 is being conducted for admission to all the Technical Institutions / Colleges affiliated to the AKTU, Lucknow. Admissions in some of the courses to the other Universities of U.P. are also done through UPSEE-2019.

# U P STATE ENTRANCE EXAMINATION (UPSEE – 2019)

For Admission to First Year of B.Tech./ B.Tech.(Biotechnology)/ B.Tech.(Agriculture Engg.)/  
B.Des. /B.Arch. /B.Pharm. /BHMCT /BFAD /BFA /MBA /MBA(Integrated) /MCA  
/MCA(Integrated) and 2<sup>nd</sup> Year (Lateral Entry) of B. Tech /B. Pharm./MCA

## 1. CENTRAL ADMISSION BOARD(CAB)

The entrance examination for degree level engineering institutions and other professional colleges has been assigned to Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow vide Govt. order no. 4649/सोलह-1-2018-14(54)/2012 dated 27-12-2018. The Govt. of Uttar Pradesh, Technical Education Department, has consented for the constitution of Central Admission Board (CAB) under the Chairmanship of the Vice Chancellor, Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow to supervise and control the State Entrance Examination herein after referred as UPSEE-2019 being conducted by Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow. The CAB has absolute rights for conducting of UPSEE-2019, and to decide about modalities of admissions and allotment of seats. The jurisdiction of CAB extends to colleges / institutes affiliated to AKTU, Lucknow. The CAB is authorized to take every decision regarding conduct and admissions through UPSEE-2019.

## 2. MODE OF ADMISSION

### 2.1. ADMISSION TO FIRST YEAR

The Entrance Examination for admission to first year of the following courses offered at the Institutions affiliated to AKTU, Lucknow including other mentioned universities situated in territory of Uttar Pradesh for the academic year 2019-2020 shall be conducted by Dr A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow.

1. 4 years B.Tech./B. Tech.(Ag. Engg.) Course	8. 4 years BFAD Course
2. 4 years B. Tech (Biotechnology) Course	9. 4 years BFA Courses
3. 4 years B. Pharm. Course	10. 2 years MBA Course
4. 5 years B. Arch .Course	11. 3 years MCA Course
5. 4 years B. Des. Course	12. 5 years MCA (Integrated) Course
6. 4 years BHMCT Course	13. 5 years MBA (Integrated) Course
7. 4 years B Voc Course	14. 5 years M Tech (Dual Degree) Course

### 2.2. DIRECT ADMISSION (LATERAL ENTRY) TO 2<sup>nd</sup> YEAR OF B.Tech./ B.Pharm. / MCA

- (i) <sup>2</sup>The eligible candidates (Refer clause 3.3) seeking direct admission to second year of B. Tech. (for engineering diploma holders and B.Sc. graduates) or B. Pharm. (Only for pharmacy diploma holders) or MCA (for BCA, B.Sc (IT/ Computer Science) degree holders) in institutions affiliated to AKTU, Lucknow are required to submit the application forms by the last date. Such candidates are also required to appear in the specified paper of entrance examination.
- (ii) <sup>3</sup>Such seats are limited to a maximum of 20% of previous year sanctioned intake in institutions/ colleges for different courses at first year level except B. Pharm. in which the maximum limit is 10%
- (iii) However, for B. Tech. students belonging to the B.Sc. stream shall be considered **ONLY AFTER** filling the seats in this category with students of Diploma stream.
- (iv) Direct admission to Second year shall **not** be made in B.Arch./BHMCT/BFAD/BFA/B. Des/B Voc/ MBA Courses.
- (v) The candidates who have passed qualifying examination from other than Uttar Pradesh State and whose parents are not domicile of Uttar Pradesh State are not eligible for Direct admission to second year of B. Tech/B. Pharm./ and MCA (Lateral Entry).

<sup>2</sup> As per AICTE Notifications F-11-140/2004-NRO/AICTE-33 dated 9-06-2004 & F.37-3/Legal/2007 dated 12.01.07 and U.P.Govt. Order no. 256 / Solah – 1 – 2007 – 1(01) / 2005 dated 14.02.07

<sup>3</sup> Subject to change as per latest orders of Govt. of U.P. / AKTU upto the date of counselling.

### 2.3. SEATS UNDER DIFFERENT SCHEME IN FIRST YEAR

- (i) Number of admissions in all courses offered at Institutions affiliated to AKTU, Lucknow, will be only through UPSEE-2019
- (ii) UP State Govt. has permitted 15% of total sanctioned seats available in Private Institutions to be filled by the Management quota/NRI candidates; and the same shall be filled up in accordance with the procedure prescribed in the Govt. orders. The remaining seats in various courses offered at all the Institutions affiliated to AKTU, Lucknow will be filled through UPSEE-2019 counseling.
- (iii) <sup>4</sup> 20% of the total sanctioned seats available for admission in first year in all courses in institutions affiliated to AKTU without reservation subject to eligibility conditions given in this Information Brochure. Thus, 20% of the total sanctioned seats for admission in first year of all courses in Institutions affiliated to AKTU shall be open to all the candidates. These seats shall be filled on the basis of UPSEE-2019 Merit.
- (iv) Thus, for Government/ Government Aided/ Govt. Self Financed Institutes, 100% seats in all courses in first year will be filled by UPSEE-2019 qualified candidates.
- (v) For private colleges 85% seats in all the courses will be filled by UPSEE-2019 qualified candidates.

### 2.4. ADMISSION TO NON-RESIDENT INDIAN (NRI) CANDIDATES IN FIRST YEAR

NRI candidates, who possess prescribed qualifications (clause 3.4), may get direct admission on 5% seats of total intake in Govt. / Govt. aided and Private Institutions having approval from AICTE for NRI seats on merit, subject to the latest instructions of Govt. of U.P. The detailed information will be published in the month of May 2019 in various newspapers and university website. The candidates, seeking for admission under this scheme, need not appear in UPSEE- 2019. However, applicants opting B.Arch. course under this category has to appear in an Aptitude Test on the day of counseling to be notified later.

### 2.5. ADMISSION TO KASHMIRI MIGRANTS IN FIRST YEAR

Direct admission to Kashmiri Migrants in first year in each institute is to be made as per the latest instructions of AICTE and orders from U.P. Govt. Such admissions will be over and above the sanctioned intake and normally limited upto one admission per Institute affiliated to AKTU, Lucknow. The detailed information will be published in the month of May 2019 in various news papers and University website <https://aktu.ac.in>. The candidates, opting for admission under this scheme, need not appear in UPSEE-2019.

**The B. Arch. course does not exist for such candidates.**

### 2.6. ADMISSION TO FOREIGN NATIONALS (FN) / PERSONS OF INDIAN ORIGIN (PIO) / CHILDREN OF INDIAN WORKERS IN GULF COUNTRIES(CIWGC)

Under the approval of AICTE, identified institutions shall admit FN/PIO/CIWGC up to the extent sanctioned by AICTE as per the eligibility criteria (clause 3.5) and guidelines of the University. These supernumerary seats shall be exclusively meant for the FN/PIO/CIWGC students in undergraduate courses with the condition that under no circumstances a seat remained unfilled shall be allocated to candidates other than a FN/PIO/CIWGC. The candidates, opting for admission under this scheme, need not appear in UPSEE-2019.

**The B.Arch. course does not exist for such candidates.**

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<sup>4</sup> May Change as per latest State Govt. order upto the date of counselling

## 2.7. ADMISSION TO FEE WAIVER SEATS FOR ECONOMICALLY WEAKER MERITIOUS STUDENTS

As per the AICTE notification fee waiver seats for economically weaker meritorious candidates are also available in B. Tech./ B. Pharm./B.HMCT/B.FAD/BFA courses in all institutions affiliated to AKTU, Lucknow. No tuition fee will be charged from the candidates admitted against such seats. The fee waiver seats will be limited to maximum of 5% of the approved intake in the course, and will be over and above of the sanctioned intake. The economically weaker students must submit certificate no. 12 (Income Certificate) at the time of verification of documents.

**No Tuition Fee Waiver seats are available for B.Arch. Courses.**

## 3. ELIGIBILITY CRITERIA

The candidates must fulfill the eligibility criteria as given in clause 3.1/3.2/3.3 to appear in UPSEE-2019. However, the candidates appearing in the qualifying examinations are also eligible to appear, subject to the condition that they must fulfill the eligibility criteria as given in clause 3.1/3.2/3.3 at the time of counseling.

### 3.1. ELIGIBILITY TO APPEAR IN UPSEE-2019 FOR ADMISSION TO FIRST YEAR OF B.Tech. /B.Des./ B.Arch. / B.Pharm. / BHMCT / BFAD /BFA /B Voc/ MBA (Integrated) /MCA (Integrated)/ M Tech (Dual Degree)

- (i) The subject combination required in the qualifying examination (intermediate examination of U.P. Board or 10+2 level examination or its equivalent) for admission to first year of different courses shall be as follows:

Course	Compulsory Subjects	Anyone of the following Subjects
B. Tech/ B.Des/ M Tech (Dual Degree) MCA(Integrated)	Physics & Mathematics	Chemistry/ Bio-Technology / Biology / Technical Vocational subject
B. Tech.(Bio-Technology)	(i) Physics & (ii) Mathematics <b>OR</b> Biology	Chemistry/ Bio-Technology / Technical Vocational subject
B. Arch	Physics, Chemistry & Mathematics	
B. Pharm.	Physics & Chemistry	Mathematics/ Biology
B.Tech. (Agriculture Engg.)	Agriculture discipline.*	
BHMCT/ BFAD /BFA / B Voc MBA (Integrated)	Any discipline.	

\* Please read point No. 3.1(v).

- (ii) For admission to first year of B.Tech./B.Pharm./B.Des./MCA(Integrated), M Tech (Dual Degree), candidate must have clearly passed intermediate examination of U.P. Board or 10+2 level examination or its equivalent from any recognized Board / University in each compulsory subjects and one optional subject as given in clause 3.1 (i) and securing minimum 45% marks (40% marks for SC/ST Category candidates) **in aggregate** in required three subjects. A candidate Passed Diploma (Engineering & Technology) with at least 45% marks (40% for reserved category) is also eligible for B Tech.
- (iii) For admission to first year of BHMCT/BFAD/BFA/MBA(Integrated)/B Voc, candidate must have clearly passed intermediate examination of U. P. Board or 10+2 level examination or its equivalent from any recognized Board / University and securing minimum 45% marks (40% marks for SC/ST category candidates) **in aggregate**.
- (iv) For admission to first year of B. Arch., a candidate must have clearly passed intermediate examination of U.P. Board or 10+2 level examination or its equivalent from any recognized Board/University and securing (i) minimum 50% marks **in aggregate** and (ii) with 50% marks in each compulsory subject (Physics, Chemistry and Mathematics) as given in clause 3.1(i).
- (v) For admission to first year of B.Tech.(Agriculture), candidate must have clearly passed intermediate examination of U. P. Board or 10+2 level examination or its equivalent from any recognized Board / University in agricultural subjects and secured minimum 45% marks (40% marks for SC/ST category candidates) **in aggregate**. **All Eligible candidates for B. Tech. First year are also eligible for B. Tech. Agriculture.**
- (vi) All candidates who are eligible for admission in B.Tech. Courses are also eligible for B.Tech. (Agriculture

Engineering) and B. Tech. (Biotechnology).

### 3.2. ELIGIBILITY TO APPEAR IN UPSEE-2019 FOR ADMISSION TO FIRST YEAR OF MBA/MCA

- (i) For admission to first year of MBA in any institution affiliated to AKTU, Lucknow, a candidate must have passed Bachelor's degree course of three years minimum duration from any recognized Indian University; or its equivalent, recognized by A.I.U securing minimum 50% (45% for SC/ST) marks **in aggregate**.
- (ii) For admission to first year of MCA in any institution affiliated to AKTU, Lucknow, a candidate must have passed Bachelor's degree course of three years minimum duration from any recognized Indian University; or its equivalent, recognized by A.I.U. securing minimum 50% (45% for SC/ST) marks **in aggregate**. Candidate must have passed Mathematics at 10+2 level or Graduation level.
- (iii) In any case a candidate having grace marks is not allowed for admission.
- (iv) For admission to first year of MBA/MCA in other Universities of U.P., a candidate must have passed Bachelor degree course with the eligibility conditions given in following table subject to the confirmation received from the concerned University:

Sl. No.	Name of University/ Institutions	Course(s)	Minimum pass marks at three years Graduation level	Remarks/ Compulsory conditions	
1	C.S.J.M. Kanpur University, Kanpur	MBA MBA-Finance & Control(M3) MBA-Business Economic(M2) MBA-Tourism Management(M4)	As per AICTE norms.		
		MCA	As per AICTE norms.	Maths at 10+2 or Graduation level.	
2	Dr. R. M. L. Avadh University, Faizabad	MBA	Graduate with 50% marks		
		MCA	Graduate	Maths at 10+2 or Graduation level.	
3	M.G. Kashi Vidyapith University, Varanasi	MBA	Graduate		
		MCA	Graduate with 45% marks	Maths at 10+2 or Graduation level.	
4	V.B.S. Purvanchal University, Jaunpur	MBA (M1) MBA Agri. Business (M17) MBA E-Commerce (M21) MBA Business Economics (M2) MBA Finance & Control (M3) MBA Human Research & Development (M22)	As per UPSEE norms.		
		MCA	As per UPSEE norms.	Maths at 10+2 or Graduation level	
5	M.J.P. Rohilkhand University, Bareilly	MBA (General) (M1) MBA (Marketing) (M20)	Graduation 50%		
		MCA	As per UPSEE norms	Maths at 10+2 or Graduation level.	
6	D.D.U. Gorakhpur University, Gorakhpur	MBA	Minimum 40% marks at Graduation level		
7	Institute of Business Studies, Ch. Charan Singh University, Meerut	MBA	Graduate		
		Sir Chhotu Ram Institute of Engineering & Technology, Ch. Charan Singh Campus, Meerut	MBA (M1) MBA-IB (M5)	Graduate	
			MCA	Graduate	Maths at 10+2 or Graduation level.



Sl. No.	Name of University/ Institutions	Course(s)	Minimum pass marks at three years Graduation level	Remarks/ Compulsory conditions
8	Dr. B.R. Ambedkar University, Agra	MBA	As per UPSEE	
		MCA	As per UPSEE	Maths at 10+2 or Graduation level.
9	Bundelkhand University, Jhansi	MBA MBA (Internation Business)(M5) MBA (Finance Management)(M6) MBA (Tourism Management)(M4)	50%	
		MCA	50% in B.Sc.(Maths/Stats)/B CA/ B.Sc.IT /B.Sc.(CS)/B.Sc.(IT) .Maths at 10+2 level is compulsory	
10	Dr. Shakuntala Misra Vishwavidyalaya, Lucknow	MBA	Graduate	
11	Khwaja Moinuddin Chishti Urdu, Arabi- Farsi University, Lucknow.	MBA	Minimum 50% marks (45% for SC/ST) at Graduation Level	

### 3.3. ELIGIBILITY TO APPEAR IN UPSEE-2019 FOR ADMISSION TO SECOND YEAR (LATERAL ENTRY) of B. Tech./B. Pharm./MCA

- (i) Direct Admission in second year (Lateral Entry) of B.Arch./BHMCT/BFAD/BFA/MBA courses is **not permissible**.
- (ii) Lateral entry in “B.Tech. for Engineering Diploma holders or B.Sc. Graduates with Mathematics as one of the subject at XII standard”/ “B. Pharm. for Diploma holders” in third semester (second year)/ “MCA for Graduates of BCA or B.Sc.-Information Technology/Computer Science in third semester (second year)”, is open **only in** the institutions affiliated to AKTU, Lucknow. Candidate who have passed qualifying exam from other than Uttar Pradesh State and whose parents are not domicile of UP State are not eligible for direct admission to second year of B. Tech/B. Pharm./MCA (Lateral Entry).
- (iii) Candidates who have passed three years Engineering Diploma from an Institution located in U.P. with minimum 45% marks (40% for SC/ST) OR whose parents (Father or mother) are domicile of Uttar Pradesh and he/she has passed three years Engineering Diploma with minimum 45% marks (40% for SC/ST) recognized by the Board of Technical Education, U.P., in any branch of Engineering (except Agriculture Engg., Pharmacy and Architecture), are eligible for admission to Second year in any branch of Engineering /Technology.
- (iv) Candidates who have passed three years Diploma in Agriculture Engg. From an Institution located in U.P. with minimum 45% marks (40% for SC/ST) OR ‘whose parents (Father or mother) are domicile of U.P.’ and he/she has passed three years Diploma in Agriculture Engg. with minimum 45% marks(40% for SC/ST) recognized by the Board of Technical Education, U.P., are eligible for admission to Second year of **Agriculture Engineering Branch only**.
- (v) Candidates who have passed three years B.Sc. degree and passed XII standard with mathematics as one of the subject' from any recognized University; securing minimum 45% marks (40% for SC/ST) in aggregate, are also eligible for admission to second year in any branch of Engineering/ Technology. These candidates shall be considered only after filling the supernumerary seats in this category with the candidates belonging to the Diploma stream. The candidates belonging to B.Sc. Stream shall clear the subjects Engineering Graphics/ Engineering Drawing and Engineering Mechanics of the first year Engineering programme along with the second-year subjects.
- (vi) Candidates who have passed 2/3 years Diploma in Pharmacy from an Institution located in U.P. with

minimum 45% marks (40% for SC/ST)' OR whose parents are domicile of U.P. and he/she has passed 2/3 years Diploma in Pharmacy with minimum 45% marks (40% for SC/ST) recognized by the Board of Technical Education,U.P.,are eligible for admission to second year of **B. Pharm. only**.

- (vii) For Admission to **2nd year of MCA course (Lateral Entry)**, in any institution affiliated to AKTU, Lucknow, a candidate must have passed Bachelor's degree course of minimum three years duration in BCA, B.Sc (IT/ Computer Science) from any recognized Indian University; or its equivalent, recognized by A.I.U. securing minimum 50% (45% for SC/ST) marks in aggregate. The candidate must have passed Mathematics at 10+2 level or Graduation level.

### 3.4. ELIGIBILITY FOR ADMISSION TO NRI QUOTA IN FIRSTYEAR

NRI candidates who possess minimum requisite qualification may get direct admission on 5% seats of total intake in State Funded and Private Institutions of Uttar Pradesh in all courses except MBA/MCA/. However, applicants opting B.Arch. course under this category must appear in Aptitude Test on the day of counselling to be notified later. The University shall fill the seats of NRI quota (5%) seats in the following manner:

- (i) NRI quota seats shall be filled from NRIs, who
- (a) have passed the qualifying examination with Physics, Chemistry and Mathematics from an Institution situated outside India, which is considered equivalent to (10+2) examination by the Association of Indian Universities.

**OR**

have passed High School Certificate Education (GCE) examination with Physics, Chemistry and Higher Mathematics (A) from London / Cambridge / Sri Lanka.

- (b) have appeared in SAT II examination with Mathematics level II C, Physics and Chemistry.

**The relative merit of such cases will be decided on their SAT-II score.**

- (ii) The vacant seats in NRI quota, if any, shall be filled up by such son / daughter / real brother /real sister of NRIs, who have passed intermediate or (10+2) or equivalent examination; with physics, chemistry and mathematics in each of physics, chemistry and mathematics and securing minimum 60% marks (55% for SC/ST) in physics, chemistry and mathematics taken together, from an institution situated in India.
- (iii) The relative merit of candidates mentioned in (ii) will be decided based on the total marks obtained by them in physics, chemistry and mathematics. Such candidates need not appear in UPSEE-2019.**
- (iv) All such candidates MUST submit an NRI certificate obtained from Indian Diplomatic Mission / Chancellery / High Commission under their seal at the time of counselling.
- (v) The candidate also MUST submit sufficient documents clarifying without ambiguity their true relationship with the sponsoring NRI to the satisfaction of the University.
- (vi) The candidates will be informed separately about the date of counselling and number of seats under this quota. **Candidates are required to be present in person on the day of counseling** with original documents / certificates, failing which they will lose their claim.
- (vii) The latest orders issued by Govt. of U.P. upto the date of NRI counseling shall be applicable for admission in NRI quota.**
- (viii)** The detailed information will be published through News papers and websites: <https://aktu.ac.in> or <http://www.upsee.nic.in> in the month of May 2019.

### 3.5. ELIGIBILITY FOR ADMISSION TO FOREIGN NATIONALS (FN) / PERSONS OF INDIAN ORIGIN (PIO) / CHILDREN OF INDIAN WORKERS IN GULF COUNTRIES (CIWGC) IN FIRSTYEAR

FN/PIO/CIWGC seats shall be filled from Foreign Nationals / PIO's/CIWGC who:

1. have passed the qualifying examination with Physics, Chemistry and Mathematics, which is considered equivalent to (10+2) examination by the Association of Indian Universities.
2. should submit a copy of passport or equivalent evidence in support of their Nationality.

**The relative merit of such cases will be based on their qualifying examination.**

**The latest orders issued by Govt. of U.P. upto the date of admission will be applicable in FN/PIO/CIWGC.**

### **3.6. ELIGIBILITY FOR DIRECT ADMISSION TO FIRST YEAR IN PRIVATE INSTITUTIONS AT INSTITUTE LEVEL UNDER MANAGEMENT QUOTA (FOR NRI CANDIDATES) / VACANT SEATS AFTER COUNSELLING OF UPSEE-2019**

- (i) The 15% seats<sup>5</sup> in private institutions shall be filled by the Management/ NRI quota at institute level under management quota as per eligibility criteria in clause 3.4. The vacant seats in NRI/Management quota or vacant seats after counselling of UPSEE-2019 shall be filled strictly in following preference order, within fifteen days of the last date of counselling:
  - (1) Firstly, by the qualified candidates of JEE(Main)-2019 fulfilling the eligibility as per clause 3.1 for B. Tech. / B.Arch. Their relative merit will be decided on their rank in respective entrance examinations.
  - (2) Secondly, by the qualified candidates of UPSEE-2019, who fulfill the eligibility as per clause 3.1. Their relative merit will be decided on their rank in UPSEE-2019.
  - (3) Thirdly, by the **merit of candidates in qualifying examinations** laid down by All India Council of Technical Education, New Delhi for admission to various programmes which are updated from time to time.
- (ii) Institute shall ensure filling of these vacant seats inviting the applications through advertisement in at least two leading newspapers of the State level and Institute website, giving at least one-week time to submit the applications on the University Portal. Admissions shall be strictly based on clause 3.6(i) mentioned above. However, applicants opting B.Arch. course under this category must appear in Aptitude Test on the day of counselling to be notified later.

**IN ANY CASE NO PRIVATE INSTITUTION IS ALLOWED TO GIVE ADMISSION IN MORE THAN 25% SEATS TO STUDENTS FROM STATE OTHER THAN UTTAR PRADESH**

### **3.7. ELIGIBILITY FOR DIRECT ADMISSION (LATERAL ENTRY) TO SECOND YEAR IN PRIVATE INSTITUTIONS UNDER VACANT SEATS AFTER COUNSELLING OF UPSEE-2019<sup>5</sup>**

The vacant seats in B. Tech./B. Pharm./MCA course after UPSEE-2019 counselling for lateral entry (second year) shall be filled within 15 days of the last date of counselling at institute level, firstly by the qualified candidates of UPSEE-2019, who fulfill the eligibility as per clause 3.3. Their relative merit will be decided on their rank in UPSEE-2019.

Thereafter, the vacant seats, if any, will be filled on merit by such candidates who have passed the qualifying examination securing minimum 45% (40% for SC/ST) for B. Tech./B. Pharm. and 50% (45% for SC/ST) for MCA marks in aggregate without any grace marks.

Institute shall ensure the filling of these seats by inviting the applications through advertisement in at least two leading newspapers of state and institute website and give at least one week time to submit the applications.

## **4. EXAMINATION DETAILS**

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<sup>5</sup> It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling.

UPSEE-2019 will be conducted for eight papers with objective multiple type questions except Drawing Aptitude test (Part B of Paper 3). The candidates are required to opt papers and subjects for appearing in the entrance examination as mentioned in clause 4.3, subject to their eligibility as per clause 3. All Papers shall be **OMR based Test only**.

#### 4.1. SCORING AND NEGATIVEMARKING

- (i) All objective type questions are required to be answered on a specially designed OMR answer sheet against the respective question number. Candidate is supposed to select only one choice for correct answer in each question.
- (ii) Every objective multiple type question would carry four/ five marks (B. Arch) marks for each correct answer. More than one answers indicated against the question will be deemed as incorrect answer and no marks are awarded for the incorrect answer.
- (iii) There will be **no negative marking**. However, a record of incorrect answers given by a candidate will be kept separately.
- (iv) Answers in OMR based examination are to be marked using ballpoint pen (Black / Blue) only. For evaluation in these papers, the details filled in by the candidate in the OMR answer sheet will be treated as final.

#### 4.2. QUESTION PAPERS AND SUBJECTS IN THE ENTRANCE EXAMINATION

Paper	Subjects	Number of Questions	Marks
Paper 1	Physics, Chemistry and Mathematics	50 objective type questions each of Physics, Chemistry and Mathematics with a total of 150 questions.	600
Paper 2	Physics, Chemistry and Biology	50 objective type questions each of Physics, Chemistry and Biology with a total of 150 questions.	600
Paper 3	Aptitude Test for Architecture & Design Part-A: Mathematics and Aesthetic Sensitivity Part-B: Drawing Aptitude	50 objective type questions each of Mathematics and Aesthetic Sensitivity with a total of 100 questions and Two questions to test drawing aptitude.	600
Paper 4	Aptitude Test for General Awareness (BHMCT/BFAD/BFA/ MBA (Integrated))	100 objective type questions	400
Paper 5	Aptitude Test for B.Sc. Graduates in Engineering (Lateral Entry)/ 2 <sup>nd</sup> Year MCA (Lateral Entry)	100 objective type questions	400
Paper 6	Aptitude Test for MBA/ MCA	100 objective type questions	400
Paper 7	Aptitude Test for Diploma Holders in Pharmacy (Lateral Entry)	100 objective type questions	400
Paper 8	Aptitude Test for Diploma Holders in Engineering (Lateral Entry)	100 objective type questions	400

#### 4.3. QUESTION PAPERS REQUIRED FOR DIFFERENT COURSES

COURSE	PAPERS
B. Tech. / B. Tech. (Agriculture Engineering)/ MCA (Integrated)/M Tech (Dual Degree)	Paper 1
B. Tech. (Bio Technology)	Paper 1 or Paper 2
B. Pharm.	Paper 1 or Paper 2
B. Arch.	Paper 3
B Des.	Paper 1 or Paper 3
BHMCT / BFAD/BFA/ B Voc/ MBA(Integrated)	Paper 4
<b>Lateral Entry:</b> MCA. 2 <sup>nd</sup> Year	Paper 5
B.Tech. 2 <sup>nd</sup> Year (for B. Sc. Graduates)	Paper 5
B.Pharm 2 <sup>nd</sup> Year (for Pharmacy Diploma Holders)	Paper 7
B.Tech. 2 <sup>nd</sup> Year (for Engg. Diploma Holders)	Paper 8
MBA/MCA	Paper 6

5. SCHEDULE OF EXAMINATION

<b>Date of Examination</b>	<b>Paper Code</b>	<b>Subjects</b>	<b>Timing (Total Time Period)</b>
21 <sup>st</sup> April 2019 (Sunday)	Paper 1	Physics, Chemistry and Mathematics	11:30 AM to 14:30 PM (3 Hours)
	Paper 2	Physics, Chemistry and Biology	11:30 AM to 14:30 PM (3 Hours)
	Paper 3	Aptitude Test for Architecture & Design	3.00 PM to 5:30 PM (2 Hours 30 Minutes)
	Paper 4	Aptitude test for General Awareness	9:00 AM to 11:00 AM (2 Hours)
	Paper 5	Aptitude Test for Lateral Entry in Engg	9:00 AM to 11:00 AM (2 Hours)
	Paper 6	Aptitude Test for MBA/ MCA	3.00 PM to 5:30 PM (2 Hours 30 Minutes)
	Paper 7	Aptitude Test for Diploma Holders in Pharmacy	9:00 AM to 11:00 AM (2 Hours)
	Paper 8	Aptitude Test for Lateral Entry in Engg (Diploma Holders).	9:00 AM to 11:00 AM (2 Hours)

## 6. SYLLABUS

The Syllabus for each question paper for the UPSEE-2019 is given at Appendix–A.

## 7. EVALUATION AND DECLARATION OF RESULT

- 7.1. The results of UPSEE-2019 will be declared in the first week of June 2019.
- 7.2. Based on performance of the candidates in UPSEE-2019, separate merit lists will be prepared for each course. Merit position, score-card with total marks and marks obtained in each subject shall be available on website **after the declaration of the result.**
- 7.3. In case two or more candidates secure equal marks, inter-se-merit of such candidates shall be determined as follows:

(a) **Firstly**, by the percentage of incorrect answers given. A candidate having lesser percentage of incorrect answers will be placed at higher merit.

(b) **Secondly**,

B.Tech./B. Tech (Ag. Engg.)/ MCA(Integrated) M Tech (Dual Degree)	By the marks obtained in Mathematics, Physics, sections of Paper 1 respectively and then by age.*
B.Pharm.	By marks obtained in Biology, Chemistry sections of Paper 2 respectively and then by age.*
B Arch	By marks obtained in Drawing Aptitude, Mathematics & Aesthetics sensitivity section of Paper 3 respectively and then by age.*
B.Tech.(Bio-Tech.)	Same as applicable in B.Tech./B.Pharm
B Des/BHMCT/BFAD/BFA/ B Voc/ MBA/MBA(Integrated)/MCA/Lateral entry	*By age only

\* Candidate with higher age will be placed at higher merit.

(c) **Thirdly**, by the application number, the lowest application number will be placed at higher in the merit.

- 7.4. The cut-off percentage of marks in UPSEE-2019 for the merit of successful candidates is 25% (20% for SC/ST) as per UP State Govt.order.
- 7.5. Successful candidates shall be called for counselling according to their merit in UPSEE-2019 by giving intimation through Newspapers and website. However, the allotment of seat shall depend on the availability of the seats on the day of counselling. The successful candidates are advised to keep a close watch on websites <https://aktu.ac.in> or <http://www.upsee.nic.in> and Newspapers for counseling dates. The counseling schedule can be downloaded from the website.

## 8. CATEGORY DEFINITIONS

- 8.1. Candidates, who have passed the qualifying examination from an institution located in the State of Uttar Pradesh and who do not claim for any reserved category are eligible for admission to all the courses at all the institutions against available General (OPEN) seats. [Code: UPGE]  
No category certificate required from such candidates.
- 8.2. Candidates, who have passed the qualifying examination from an institution located in State of U.P. and are domicile of U.P. and belong to Schedule Caste (SC) of U.P./Schedule Tribe (ST) of U.P./Other Backward Classes of U.P. are eligible for admission against available reserved seats of their category. List of Schedule caste, Schedule Tribe and Other Backward Class are available on Appendix-F<sup>6</sup>.

<sup>6</sup> It is as per State Govt. order and may change as per latest instructions of Govt. of U.P. upto the date of counselling

[Respective Codes: **UPSC / UPST / UPBC**]

*Certificate No. 1 or 2, as applicable, is required.*

- 8.3. Candidates, who have passed the qualifying examination from an institution located outside U.P. and whose parents are domicile of U.P. and who have not claimed for any reserved category, are also eligible for admission to courses offered at all institutions under General (OPEN) category. Such candidate must produce the domicile certificate of his/her parents (Father OR Mother only) at the time of counselling.

[Code: **UPGD**]

*Certificate No. 3 required from such candidates*

- 8.4. Candidates, who have passed the qualifying examination from an institution located outside U.P. and whose parents are domicile of U.P. and who belong to Schedule Caste of U.P. / Schedule Tribe of U.P. / Other Backward classes of U.P. are also eligible for admission against reserved seats of their category.

[Respective Codes: **GDSC/GDST/GDBC**]

*Such candidate has to produce the domicile certificate of his/her parents (**Father OR Mother only**) (Certificate No. 3) and Category Certificate (Certificate No.1 or 2 as applicable) at the time of counselling.*

- 8.5. The domicile requirement to son/daughter of following is **relaxed** and admission is permitted to such:
1. defense personnel settled in U.P. on the date of Entrance Examination after retirement / being disabled in action or Defense personnel killed in action and the dependents settled in U.P. on the date of Entrance Examination. (*Certificate no. 5 is required*)
  2. defense personnel who are not domicile of U.P., but are posted in U.P. on the date of Entrance Examination. (*Certificate no. 5 is required.*)
  3. Employee of **All India Services** belonging to U.P.cadre.(*Certificate no.11 is required*)

[Code: **GDDA**]

***GDDA candidates will be considered as UPGD category for all other benefits.***

- 8.6. Candidates, who have passed the qualifying examination from an institution located outside U.P. and whose parents are NOT domicile of U.P.

[Code: **OSGE**]

*No category certificate required from such candidates.*

***Such candidates, along-with candidates of other categories, shall be considered only against 20 percent of the sanctioned intake of first year of all courses in Private Institutions affiliated to AKTU.***

- 8.7. Proformas of various certificates are available in Appendix –D.



## 9. RESERVATION OF SEATS<sup>7</sup>

### 9.1. Vertical Reservation(Category):

Category	Percentage of Reservation
(a) Scheduled Caste from U.P.	21%
(b) Scheduled Tribe from U.P.	02%
(c) Other Backward Classes from U.P.	27%

### 9.2. Horizontal Reservation (Sub-category available in each category):

Sub-Category	Code	Maximum Percentage of Total Seats
(a) Dependents of Freedom Fighters from U.P.	UPFF	02%
(b) Sons / Daughters of defense personnel of U.P. either retired (superannuated) or killed/disabled in action or defense personnel posted in U.P./defense personnel domicile of U.P. & posted outside U.P.	UPAF	05%
(c) Divyang Jan <sup>8</sup> from U.P.	UPHC	03%
(d) Female from U.P.	UPGL	20%

9.3. The candidates can be given **only one** type of horizontal reservation out of UPFF/UPAF/UPHC. **However, the female candidates can also claim for any one of UPFF/UPAF/UPHC along with UPGL.**

9.4. Subsequent request for the change of category / sub-category filled in Application Form **shall not** be entertained under any circumstances.

9.5. Category/sub-category must be supported by the relevant certificates as per proforma given in Appendix-D to be produced at the time of counselling, failing which the candidates shall be treated in General Category

9.6. The advantage of horizontal reservation in Armed force sub-category is available to sons/daughters of 'defense personnel from U.P. either retired (Superannuated) or killed / disabled in action and the dependents settled in U.P.', and 'the defense personnel posted in U.P.' on the date of Entrance Examination.

9.7. Certificate no. 4, 5 and 6 are required at the time of counselling, for claiming reservations in subcategories mentioned at clause 9.2 (a), (b) and (c) respectively.

9.8. **The seats available under Fee Waiver scheme will be notified in respective category at the time of counselling.**

9.9. **Please note that benefits of UPGL subcategory will automatically be given to all the Female candidates of UPGD & UPGE.**

## 10. WEIGHTAGE TO CANDIDATES FROM RURAL AREAS OF UTTAR PRADESH

<sup>7</sup> Reservation Policy will be applicable as per latest instructions of Govt. of U.P. upto the date of counselling

<sup>8</sup> 60% Seats are Reserved for UPHC Category Candidates for Each Course offered in AITH : Dr. Ambedkar Institute of Technology for Handicapped, U.P.

- 10.1.** A weightage of 3% of the total marks obtained at UPSEE-2019 will be given to such UPGE candidates for B. Tech./B. Pharm./B.Arch./BHMCT/BFAD/BFA/B Voc courses, who have passed the qualifying examination from an institution situated in rural area of Uttar Pradesh.
- 10.2.** For this purpose, the institutions should be situated in the jurisdiction of Gram Panchayat but the area should not be industrially developed. Such candidates must produce Certificate Number 7 at the time of counselling.
- 10.3. Rural weightage is not applicable for a candidate opting any other reservation and for a candidate opting direct admission to second year.**
- 10.4. Rural weightage is not applicable for candidates under UPGD category defined in clause 8.3.**

**11. MEDICAL STANDARDS**

- 11.1.** Candidates will have to submit a certificate of Medical fitness/handicapped on Certificate number 9 at the time of counselling.
- 11.2.** The medical standards prescribed are given below:

**Medical Standards Applicable:**

Height	Candidate should be Physically fit to pursue his/her studies in opted course.
Weight	
Chest measurement	
Heart and lungs	No abnormality
Hernia, Hydrocele, Piles etc.	Presence of any of these is to be corrected before joining.
Vision	Normal. If defective, it must be got corrected to 6/9 in the better eye and 6/12 in the worse one. Eyes should be free from congenital or any other disease.
Hearing	Normal. If defective, it must be got corrected before joining.
Physically Handicapped / Disabled	The candidate having any one type of physical handicap/ disability given below.

**Physically Handicapped / Disabled:**

<b>Type – I</b>	Minimum 40% permanent Visual impairment
<b>Type – II</b>	Minimum 40% permanent Locomotors disability
<b>Type – III</b>	Minimum 40% permanent speech and Hearing impairment

## 12. CITY OF EXAMINATION

The UPSEE-2019 will be held at various cities as given in the following tables. The candidates are advised to give three choices of examination cities.

- (i) **All Papers are OMR based Tests** and shall be held in various cities given in the **Examination City Table**

### Examination City (OMR Based Test)

Cities in State of U.P.			
Agra	Firozabad	Mathura	Aligarh
Allahabad	Azamgarh	Ballia	Mau
Bareilly	Shahjanpur	Basti	Banda
Gonda	Ambedkar Nagar	Barabanki	Faizabad
Sultanpur	Deoria	Gorakhpur	Kushinagar
Jalaun (Orai)	Jhansi	Etawah	Kanpur Nagar
Kanpur Dehat	Lakhimpur Kheri	Lucknow	Raebareili
Sitapur	Bulandshahr	Noida	Greater Noida
Ghaziabad	Meerut	Mirzapur	Bijnaur
Moradabad	Muzaffarnagar	Saharanpur	Ghazipur
Jaunpur		Varanasi	
Cities outside U.P.			
Bhopal	Dehradun	Delhi	Delhi
Patna	Ranchi	Jaipur	Kolkata
Mumbai	Rohtak	Jammu	Guwahati
Roorkee	Chandigarh	Chennai	Banglore
Hyderabad			

- (ii) **Candidates are advised to be VERY CAREFUL while giving their options for city of examination centre.** Candidates are advised to choose cities of examination on the basis of respective table i.e **Examination City Table**
- (iii) If any candidate chooses cities of examination where the examination for the paper opted is not being conducted, he/she shall be allotted an examination city from the respective list and same shall be binding upon the candidate.
- (iv) Certain examination cities may be cancelled if sufficient number of candidates does not opt for that city. Request for change of city of examination shall not be entertained under any circumstances.

## 13. ADMITCARD

- 13.1. Admit card will be available online on the website <http://www.upsee.nic.in> to every candidate. **Downloaded admit card shall be treated as valid admit card.** The candidates are advised to check the details of admit cards with regards to their category, sub-category, gender, rural weightage, Name, Father's Name etc. as mentioned on the Admit Card.
- 13.2. No candidate will be allowed to appear in the examination without admit card.
- 13.3. If any candidate is unable to download his/her admit card, he/she should contact the helpline as indicated on the website <http://www.upsee.nic.in> or send an email to the mail address [upsee.helpdesk@aktu.ac.in](mailto:upsee.helpdesk@aktu.ac.in) latest by **20<sup>th</sup> April, 2019.**
- 13.4. A plea that a candidate failed to receive the information for appearing at the Examination will not be accepted as a ground for the refund of fee or any other redressal. UPSEE-2019 may withdraw the permission to appear in UPSEE-2019 granted by mistake to a candidate who is not eligible to appear at the UPSEE-2019 even if an Admit Card has been issued and produced by the candidate before the concerned Centre Superintendent at the Examination Centre.
- 13.5. In case of any reported correction, the final corrected admit card will have to be downloaded from

website <http://www.upsee.nic.in> or <https://aktu.ac.in> before the examination date.

- 13.6. Since successful candidates are required to produce the Admit Card at the time of counselling and admission, hence it should be carefully preserved until the admission process is completed.**

**14. MEDIUM AND MODE OF EXAMINATION & EVALUATION**

All question papers (except part B of paper-3) will carry objective multiple-choice questions. Answers of Paper 1 to Paper 8 will be evaluated by OMR methodology. All question papers for undergraduate admissions (except Part B paper-3) will be in Hindi and English both, but in case of any ambiguity, the English version shall be considered final. The candidates appearing in the UPSEE-2019 have the option to answer part B of Paper-3 either in English or in Hindi. In all cases, the Standard English numerals must be used.

**15. COUNSELLING**

- 15.1.** Successful candidates will be required to participate in the counselling process. The information about Counselling procedure, Counselling Schedule and all relevant information regarding counseling etc., will be notified on the website <http://www.upsee.nic.in>.

**16. EXAMINATION FEE**

The examination fee for the On-Line Application is as follows:

<b>For Male / Transgender Candidates of General/ OBC Category</b>	<b>For SC/ST Category/Female/PH Candidates of All the category</b>
<b>Rs. 1300/-</b>	<b>Rs. 650/-</b>

The examination fees have to be submitted On-Line through Credit/debit Card/ Net Banking while submitting the On-Line Application. Please note that the bank may additionally charge service charges plus applicable taxes while making the payment through Credit/Debit card/Net banking.

**17. TUITION FEES**

- 17.1.** The tuition fees in Govt. / Govt. aided colleges / institutes shall be as per latest orders of Government of U.P applicable in the respective colleges/institutes. However, few courses are under self finance scheme and the details of the fee for such courses can be obtained by respective colleges/institutions. However, information about amount of the hostel and other fee can be obtained from the institute itself.

- 18.** The fees in Private Institutions/Govt. aided Institutions running self-finance courses will be as per the latest notification/ orders issued by Govt. of Uttar Pradesh/ Fee Fixation Committee

**19. LAST DATE OF SUBMISSION OF ON-LINE APPLICATION FORM**

Application Form for UPSEE-2019 can be submitted On-Line only through website <http://www.upsee.nic.in> from **23<sup>rd</sup> January 2019, 02:00 PM**. The Last Date of filling and submitting the On-Line Application Form is **15<sup>th</sup> March 2019, 05:00 PM**.

## HOW TO FILL ON-LINE APPLICATION FORM (UG & PG COURSES)

The On-Line application to UPSEE-2019 can be filled and submitted as per clause 18, clause 19, clause 20 and clause 21 of the Information Brochure as given below.

### 20. AVAILABILITY OF INFORMATION BROCHURE

The Information Brochure will be available ON LINE on the websites <http://www.upsee.nic.in> only. The same can be downloaded and/or printed for reference by the candidates. The application form can be filled in On-Line through Internet from any place of convenience.

### 21. HOW TO FILL AND SUBMIT THE ON-LINE APPLICATION FORM

#### 21.1. APPLICATION PROCEDURE

The online application can be made from 02:00 PM, 23<sup>rd</sup> Jan 2019 till 05:00 PM of 15<sup>th</sup> March 2019 through the website <http://www.upsee.nic.in>. The On-Line Application Form is self-explanatory. For assistance, in case of any difficulty in filling up ON-LINE application form, candidate may contact at Toll Free Number 1800-180-0161 or send an email at [upsee.helpdesk@aktu.ac.in](mailto:upsee.helpdesk@aktu.ac.in) with subject line "Seeking Help".

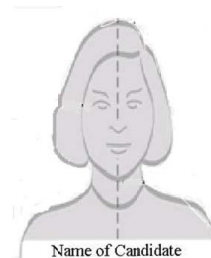
#### 21.2. The On-Line application form submission consists of following three simple steps.

1. Registration (Filling up of Personal and other Details)
2. Uploading of Scanned Images of Photograph and Signature.
3. Payment of Examination Fee and Printing of the "Confirmation Page"

#### 21.3. Before, a candidate starts filling the On-Line application Form, he/she must be ready with the following:

1. Personal Identity Document/Number.
2. A personal mobile phone number and a personal E-Mail id.

3. **Photograph:** A clear scanned image of his/her recent color passport size photograph (3.5cm X 4.5cm) in JPEG Format with a maximum size of 100 KB. The photograph must be front facing to the camera in a manner that full face shows. The back-ground should be either white or off-white and uncluttered. The photograph should be colour with name of the candidate printed on it as shown in the sketch below. It should be without cap or goggles. Spectacles are allowed.



Candidates with unclear photograph are liable to be rejected. Candidates may keep 6-8 identical photographs in reserve for use at the time of entrance examination.

4. A clear scanned image of his/her signature (3.5 cm x 1.5 cm) in JPEG format with a maximum size of 30 KB

#### 21.4. Once ready with this he/she may proceed to following steps. Visit the website <http://www.upsee.nic.in> (Please use the Latest Web Browsers (Mozilla Firefox/Google Chrome/Internet Explorer 10 or above/)) and choose the

appropriate link as follows for filling up the application form.

- Follow the link “**UP State Entrance Examination for UG (UPSEE-2019)**” for filling the application form for admission to Under Graduate Programmes: B.Tech./ B.Des./ B.Arch./ B.Pharm/ BHMCT/ BFAD/ BFA/MBA(Intg.)/MCA(Intg.)/ Direct admission to 2nd year of B.Tech./ B.Pharm.
- Follow the link “UP State Entrance Examination for PG (UPSEE-2019)” for filling the application form for admission to PG programmes : MBA/MCA and Direct admission to 2nd year of MCA. You may now start filling the application by clicking the link “Apply” at the bottom of the page

A new screen containing the Instructions and Procedure for online submission of Application Form appears. Read this page carefully and thereafter follow the link “Click here to proceed” at the bottom of the page which takes you to the On-Line Application Form. Now start filling the Application Form.

#### **1. Step1: Registration and Filling up Details of Personal, Educational and other Details**

- (i) The On-Line Application Form is self explanatory. You are required to fill up all the personal details such as Name, Father’s Name, Mother’s Name, Domicile of your parent, state from where you have passed or appearing in the qualifying examination, Communication details such as address, mobile phone number, email etc., Course Apply details such as qualifying examination detail, subjects in the qualifying examination etc. You are also required to choose paper as per eligibility, choice of city for examination centre etc during the filling of the online application form.
- (ii) After filling these details, you are required to choose “Password” and security question. You are required to remember this “Password” till the examination is over. Please note that this Password along with Application Number generated by the system will be required in future to login into the system again. You are advised not to share this password with anyone.
- (iii) Form aking changes in the Application Form, you may click the “EDIT” Button at the bottom as many times as you want.
- (iv) After completion of the Application Form, you may submit the application form by clicking “SUBMIT” Button. Once you click “SUBMIT” Button, a Review pageshowing all the crucial information filled by you appears on the screen. Now, check all the information on the Review Page. If you want to change/modify some of the information provided in the Application Form, click the “EDIT APPLICATION FORM DATA” Button and modify the entries in Application Form as desired and“SUBMIT”.You can repeat this process as many times as you want.
- (v) Once you are satisfied with all the entries and want to submit the Application Form, click the “FINAL SUBMIT” Button. Please note that once you submit the application form by clicking the “FINAL SUBMIT” Button, the On-Line Application Form is finally submitted, and you will not be able to modify/change/edit the entries of your Application Form. Therefore, you are advised to click “FINAL SUBMIT” Button only when you are completely satisfied with entries on the application form, part of which has been shown on the “ReviewPage”.
- (vi) Before “FINAL SUBMIT” Button, you will notice a Declaration at the bottom. Please read the declaration and accept the declaration by ticking the check box named “I agree”. Unless you accept the declaration by ticking the given check box, you will not be able to submit the form.
- (vii) After Final Submission of the Application Form, Step 1 is completed, and an Application

Number is generated by the system. You are required to note this APPLICATION NUMBER for all future correspondences and to be able to Login again.

- (viii) Now you may proceed with Step 2. If you wish to complete the step 2 at later time, please Logout. Thereafter, Login again with your APPLICATION NUMBER and PASSWORD at a convenient time and complete the Step2.

**2. Step 2: Uploading of Scanned Images of Photograph, Signature**

- (i) Once Step1 is complete, then you may proceed now with Step 2 for uploading of the scanned images.
- Upload a clear scanned image of his/her recent passport size color photograph (3.5cm X 4.5cm) in JPEG Format with a maximum size of 100 KB. The photograph must be front facing to the camera in a manner that full face shows. The background should be either white or off-white and uncluttered.
  - Upload a clear scanned image of his/her signature (3.5cm X 1.5cm) in JPEG Format with a maximum size of 30KB.
- (ii) Please check/review that images that have been uploaded are clear and correct before pressing the “SAVE” Button. Once “SAVE” Button is pressed, you will not be able to change the images. Therefore, before pressing the “SAVE” Button, make it doubly sure that uploaded images are correct and clear. If images that have been uploaded are not proper or appears blurred, then you must upload a proper and clear image(s) again. Please note that an Application Form with blurred photograph or signature is liable to be rejected.
- (iii) Once you are satisfied with uploaded images, then you may press the “SAVE” Button. Once “SAVE” Button is pressed, images are finally uploaded and now you will not be able to change the image(s).
- (iv) You may now proceed with Step 3 for making payment of examination fee. If you wish to complete the Step 3 at a later time, please logout. Thereafter, Login again with your APPLICATION NUMBER and PASSWORD at a convenient time and complete the step3.

**3. Step 3: Payment of Examination Fee through Credit Card / Debit Card/ Net-banking/Wallets and Downloading of “Confirmation Page”**

After completion of Step 1 and Step 2, applicant may proceed with Step 3 for payment of Examination Fee. The examination fee can be paid On-Line ONLY through Credit Card/ Debit Card / Net Banking/Wallets

- (i) For making payment through Credit Card/ Debit Card/ Net Banking/ Wallets, choose appropriate “Mode of Payment” and click the link “Proceed for Payment” to make the payment of examination fee. All VISA/Master/RuPay cards are accepted. You should be ready with your Credit Card/ Debit Card/Net Banking details. Please note that, in addition to the examination fee, bank may charge extra amount as service charge and/or taxes as applicable.
- (ii) After making payment, a payment Transaction Number is generated. You are required to note this Transaction Number for future correspondences.
- (iii) If the payment is successful, a link appears on the screen/page named “Download

Confirmation Page”. You must download this “Confirmation Page “by clicking this link and save the “Confirmation Page” for record. You are also advised to take two copies of print-outs of this “Confirmation page” and keep them preserved for record and future communication. Now your application form is complete. You may log out. Please note that this “Confirmation Page” is not required to be sent to the University/UPSEE-2019 office. Your “Application Number ”is also printed on this “Confirmation Page”.

- (iv) Please note that you can view your Application Form later also. For this, you are required to Login again at the website <http://www.upsee.nic.in> using your Application Number and Password. Although, you will not be able to edit/modify your application Form.
- (v) Failed Transaction: In case, your transaction is failed for some reason, whatsoever , then you will not be able to download the “Confirmation Page”. If you are unable to download the “Confirmation page” and your account is debited, it means that transaction could not be updated at NIC server of UPSEE-2019. In case, you do not succeed to download the “Confirmation page”, it indicates that your transaction has failed, and you are required to make the Payment of Examination Fee again and download the confirmation page as explained in Point No (13) to Point No (16) above.
- (vi) However, the amount of Examination Fee against the failed transactions, which could not be updated on NIC Server of UPSEE-2019, shall be automatically refunded by the Bank after Reconciliation and shall be credited to the account from which the payment was made using your debit card/ credit card / Net Banking. In case, amount debited against the failed transaction is not refunded to your account within FIVE DAYS, you may send an email as follows.

To : upsee.helpdesk@aktu.ac.in  
Subject : Failed Transaction

Please do not forget to mention the following in your mail.

- A) Your Application Number,
- B) Transaction Number
- C) Date of Birth, and
- D) Aadhar Number

- (vii) Please donot send the hard copy /softcopy/print-out of the Confirmation page or any other document to the University at this stage.
- (viii) In case of any difficulty in filling up the On-Line Application Form, you may contact UPSEE-2019 Helpdesk at Toll Free Number: 1800-180-0161 between 10:00 AM to 05:00 PM or send an email to [upsee.helpdesk@aktu.ac.in](mailto:upsee.helpdesk@aktu.ac.in) with subject line: Seeking Help.

## 22. KEY ELEMENTS OF ON-LINE APPLICATIONFORM

Read carefully the entire Information Brochure before filling the On-Line Application Form. The On-Line Application Form is self-explanatory. Following are the key elements of the Application Form which will appear in the application (not necessarily in the order).

1. Name of the Candidate: Write your FULL NAME (in English Capital Letters) as recorded in your High School or equivalent examination certificate
2. Father’s Name: Write FULL NAME (in English CapitalLetters).
3. Mother’s Name: Write FULL NAME (in English CapitalLetters).
4. Date of Birth: Fill your date of birth exactly as recorded in your High School or equivalent



examination certificate in dd/mm/yyyyformat.

5. Nationality: Choose “INDIAN” if your Nationality is Indian other wise choose “OTHERS”
6. Gender: Choose Male or Female or Third Gender(Transgender) which ever is applicable.
7. Parent's Domicile: Choose “Uttar Pradesh” if at least one of your parents (Father/Mother) is domicile of U.P., Choose “Other than Uttar Pradesh” if none of your parents is domicile of U.P. and choose “GDDA” if belongs to clause 8.5 of Information Brochure.
8. Aadhar Number: This is certainly Aadhar number of candidate itself. The identity of candidate can be verified at the time of Entrance Examination/ Counselling/Admission to Institute/End Semester Examinations during course studies by Institute/University
9. Address for Communication: Write your complete mailing address with pin code in CAPITAL LETTERS for postal communication
10. Contact Mobile Phone Number: Write your mobile number. This mobile number will be used for communication with you during examination/admission process
11. E-Mail address: Write your E-Mail address. This mail address will be used for communication with you during examination/admission process.
12. Qualifying Examination Details:
  - Examination: Choose appropriate option(s) whether you have passed or are appearing in Intermediate (10+2)/ Diploma in Engg./Diploma in Pharmacy/ Diploma in Agriculture Engg./Diploma in Architecture/Graduate
  - Qualifying Examination Passed/ Appearing from college situated in: Choose “Uttar Pradesh” if you have passed or are appearing in qualifying examination form UP otherwise choose “Other than UttarPradesh”.
  - Year of Passing / Appearing: Write year of passing or appearing, whichever is applicable, the qualifying examination.
13. Subjects in Qualifying Examination: Choose the subject group in which you have passed / are appearing in, Qualifying Examination.
14. Choice of City of Centre for Entrance Examination in order of preference: Indicate three distinct choices for city of examination from where you wish to appear in UPSEE 2019. Refer to Clause 12 or Appendix-E of the Information Brochure for city of examination.
15. Category: Choose applicable category whether you are a candidate of UPGE, UPSC, UPST, UPBC, UPGD ,GDSC ,GDST ,GDDB ,GDDA ,OSGE. Refer to Clause8.1 to 8.6 of this Information Brochure
16. Sub-Category: Choose suitable sub category depending upon whether you belong to sub-category UPFF, UPAF or UPHC otherwise choose “NotApplicable” if you do not belong to any of the sub-categories. Refer to Clause 9.2 to 9.9 of this Information Brochure.
17. Rural Weightage Claimed: Choose “YES” if you are eligible for and want to claim rural Weightage otherwise choose “NO”. Refer to clause 10 of Information Brochure for rural weightage eligibility.
18. Seeking Admission For: Choose appropriate option First Year for UG or 2nd Year (Lateral Entry) or First Year for PG. Please note that this choice is linked with your qualification and subjects in the qualifying examination. Please refer to clause 3 & 4 of the Information Brochure
19. Course(s) APPLIED FOR: Choose appropriate course name(s) to which you are seeking

admission.

20. Papers in which you wish to appear in UPSEE-2019: Choose appropriate paper(s) in which you wish to appear. Refer Clause 4 of the Information Brochure.
21. Photograph: Upload scanned image of your recent 3.5 cm x 4.5 cm color photograph in JPEG format. The photograph which are not clear will be considered as an attempt of the act of impersonation and application form is liable to be rejected.
22. Signature: Upload scanned image of your signature in JPEG format.
23. Declaration: Read the declaration and accept the declaration by ticking the check box named "I agree" provided. Unless you accept the declaration by ticking the given check box, you will not be able to submit the form.
24. Mode of Payment: Choose the appropriate mode (Credit Card / Debit Card / Net Banking) of making payment of the prescribed examination fee and make the payment. Please note that in addition to the examination fee, bank may charge additional amount as service charge and taxes as applicable on the transaction.
25. Fee Amount in Rupees: Examination fee is Rs 1300.00 for Male/ Transgender candidates of General/OBC Category and Rs 650.00 for SC/ST candidates/ Physically Handicapped candidates and female candidates of all categories. Please refer to Clause 16 of the Information Brochure.

### SYLLABI FOR UPSEE-2019

#### PAPER – 1 (PHYSICS, CHEMISTRY & MATHEMATICS)

##### **Section A, PHYSICS**

**Measurement:** Dimensional analysis and error estimation, dimensional compatibility and significant figures.

**Motion in one dimension:** Average velocity, instantaneous velocity, one-dimensional motion with constant accelerations, freely falling bodies.

**Laws of Motion:** Force and inertia, Newton's laws of motion, and their significance.

**Motion in two dimensions:** Projectile motion, uniform circular motion, tangential and radial acceleration in curve-linear motion, relative motion and relative acceleration.

**Work, Power and Energy:** Work done by a constant and variable forces, kinetic and potential energy, power, Conservative and non-conservative forces, conservation of energy, gravitational energy, work energy theorem, potential energy stored in a spring.

**Linear Momentum & collisions:** Linear momentum & impulse, conservation of linear momentum for two particle system, collisions, collision in one dimension, collision in two dimension, rocket propulsion.

**Rotation of a rigid body about a fixed axis:** Angular velocity and angular acceleration, rotational kinematics, rotational motion with constant angular acceleration relationship between angular and linear quantities, rotational energy, moment of inertia for a ring, rod, spherical shell, sphere and plane lamina, torque and angular acceleration, work and energy in rotational motion, rolling motion of a solid sphere and cylinder.

**Gravitation:** Gravitational field, Kepler's laws and motion of planets, planetary and satellite motion, geostationary satellite.

**Oscillatory motion:** Harmonic motion, oscillatory motion of mass attached to a spring, kinetic & potential energy, Time Period of a simple pendulum, comparing simple and harmonic motion with uniform circular motion, forced oscillations, damped oscillations and resonance.

**Mechanics of solids and fluids:** States of matter young's modulus, bulk modulus, shear modulus of rigidity, variations of pressure with depth, Buoyant forces and Archimedes principle, Pascal's law, Bernoulli's theorem and its application, surface energy, surface tension, angle of contact, capillary rise, coefficient of viscosity, viscous force, terminal velocity, Stoke's law, stream line motion, Reynold's numbers.

**Heat and thermodynamics:** First law of thermodynamics, specific heat of an ideal gas at constant volume and constant pressure, relation between them, thermodynamics process (reversible, irreversible, isothermal, adiabatic), second law of thermodynamics, concept of entropy and concept of absolute scale, efficiency of a Carnot engine, thermal conductivity, Newton's law of cooling, black body radiation, Wien's displacement law, Stefan's law.

**Wave:** Wave motion, phase, amplitude and velocity of wave, Newton's formula for longitudinal waves, propagation of sound waves in air, effect of temperature and pressure on velocity of sound, Laplace's correction, Principle of superposition, formation of standing waves, standing waves in strings and pipes, beats, Doppler's effect.

**Electrostatics:** Coulomb's law, electric field and potential due to point charge, dipole and its field along the axis and perpendicular to axis, electric flux, Gauss's theorem and its applications to find the field due to infinite sheet of charge, and inside the hollow conducting sphere, capacitance, parallel plate capacitor

with air and dielectric medium between the Plates, series and parallel combination of capacitors, energy of a capacitor, displacement currents.

**Current Electricity:** Concept of free and bound electrons, drift velocity and mobility, electric current, Ohm's law, resistivity, conductivity, temperature dependency of resistance, resistance in series and parallel combination, Kirchoff's law and their application to network of resistances, principle of potentiometer, effect of temperature on resistance and its application.

**Magnetic Effect of Current:** Magnetic field due to current, Biot-Savart's law, magnetic field due to solenoid, motion of charge in a magnetic field, force on a current carrying conductors and torque on current loop in a magnetic field, magnetic flux, forces between two parallel current carrying conductors, moving coil galvanometer and its conversion into ammeter and voltmeter.

**Magnetism in Matter:** The magnetization of substance due to orbital and spin motions of electrons, magnetic moment of atoms, diamagnetism, paramagnetism, ferromagnetism, earth's magnetic field and its components and their measurement.

**Electro magnetic induction:** Induced e.m.f., Faraday's laws, Lenz's law, electromagnetic induction, self and mutual induction, B-H curve, hysteresis loss and its importance, eddy currents.

**Ray Optics and optical instruments:** Sources of light, luminous intensity, luminous flux, illuminance, photometry, wave nature of light, Huygen's theory for propagation of light and rectilinear propagation of light, reflection of light, total internal reflection, reflection and refraction at spherical surfaces, focal length of a combination of lenses, spherical and chromatic aberration and their removal, refraction and dispersion of light due to a prism, simple and compound microscope, reflecting and refracting telescope, magnifying power and resolving power.

**Wave Optics:** Coherent and incoherent sources of light, interference, young's double slit experiment diffraction due to a single slit, linearly polarized light, Polaroid.

**Modern Physics:** Photo-electric equation, matter waves, quantization, Planck's hypothesis, Bohr's model of hydrogen atom and its spectra, ionization potential, Rydberg constant, solar spectrum and Fraunhofer lines, fluorescence and phosphorescence, X-Rays and their productions, characteristic and continuous spectra.

Nuclear Instability, radioactive decay laws, Emission of  $\alpha$ ,  $\beta$ ,  $\gamma$  rays, Mass - defect, Mass Energy equivalence, Nuclear Fission Nuclear Reactors, Nuclear Fusion.

Classification of conductors, Insulators and semiconductors on the basis of energy bands in solids, PN junction, PN Diode, junction Transistors, Transistor as an amplifier and Oscillator.

Principles of Logic Gates ( AND, OR and NOT ) Analog Vs Digital communication, Difference between Radio and television, Signal propagation, Principle of LASER and MASER, Population Inversion, Spontaneous and stimulated Emission.

## **Section B, CHEMISTRY**

**Atomic Structure:** Bohr's concept. Quantum numbers, Electronic configuration, molecular orbital theory for homo-nuclear molecules, Pauli's exclusion principle.

**Chemical Bonding:** Electrovalency, co-valency, hybridization involving s, p and d orbitals hydrogen bonding.

**Redox Reactions:** Oxidation number, oxidising and reducing agents, balancing of equations.

**Chemical Equilibrium and Kinetics:** Equilibrium constant (for gaseous system only) Le Chatelier's principle, ionic equilibrium, Ostwald's dilution law, hydrolysis, pH and buffer solution, solubility product, common-ion effect, rate constant and first order reaction.

**Acid-Base Concepts:** Bronsted Lowry & Lewis. **Electrochemistry:** Electrode potential and electro-chemical series. **Catalysis:** Types and applications.

**Colloids:** Types and preparation, Brownian movement, Tyndall effect, coagulation and peptization.

**Colligative Properties of Solution:** Lowering of vapor pressure, Osmotic pressure, depression of freezing point, elevation of boiling point, determination of molecular weight.

**Periodic Table:** Classification of elements on the basis of electronic configuration, properties of s,p and d block elements, ionization potential, electronegativity & electron affinity.

**Preparation and Properties of the following:** Hydrogen peroxide. copper sulfate, silver nitrate, plaster of paris, borax, Mohr's salt, alums, white and red lead, microcosmic salt and bleaching powder, sodium thiosulfate.

**Thermo-chemistry:** Exothermic & endothermic reactions Heat of reaction, Heat of combustion & formation, neutralization, Hess's law.

**General Organic Chemistry:** Shape of organic compounds, Inductive effect, mesomeric effect, electrophiles & nucleophiles, Reaction intermediates: carbonium ion, carbanions & free radical, Types of organic reactions, Cannizzaro Friedel Craft, Perkin, Aldol condensation.

**Isomerism:** Structural, Geometrical & Optical **IUPAC:** Nomenclature of simple organic compounds.

**Polymers:** Addition & condensation polymers **Carbohydrates:** Monosaccharides.

**Preparation and Properties Of the Followings:** Hydrocarbons, monohydric alcohols, aldehydes, ketones, monocarboxylic acids, primary amines, benzene, nitrobenzene, aniline, phenol, benzaldehyde, benzoic acid, Grignard Reagent.

**Solid State:** Structure of simple ionic compounds, Crystal imperfections (point defects only),Born-Haber cycle

**Petroleum:** Important industrial fractions, cracking, octane number, anti-knocking compounds.

### **Section C, MATHEMATICS**

**Algebra:** Sets relations & functions, De-Morgan's Law, Mapping Inverse relations, Equivalence relations, Peano's axioms, Definition of rationals and integers through equivalence relation, Indices and surds, Solutions of simultaneous and quadratic equations, A.P., G.P. and H.P., Special sums i.e.  $\sum n^2$  and  $\sum n^3$  ( $n \in \mathbb{N}$ ), Partial fraction, Binomial theorem for any index, exponential series, Logarithm and Logarithmic series. Determinants and their use in solving simultaneous linear equations, Matrices, Algebra of matrices, Inverse of a matrix, Use of matrix for solving equations.

**Probability:** Definition, Dependent and independent events, Numerical problem on addition and multiplication, theorem of probability.

**Trigonometry:** Identities, Trigonometric equations, properties of triangles, solution of triangles, heights and distances, Inverse function, Complex numbers and their properties, Cube roots of unity, De-Moivre's theorem.

**Co-ordinate Geometry:** Pair of straight lines, Circles, General equation of second degree, parabola, ellipse and hyperbola, tracing of conics.

**Calculus:** Limits & continuity of functions, Differentiation of function of function, tangents & normal, Simple examples of Maxima & Minima, Indeterminate forms, Integration of function by parts, by substitution and by partial fraction, definite integral, application to volumes and surfaces of frustums of sphere, cone and cylinder. Differential equations of first order and of first degree.

**Vectors:** Algebra of vectors, scalar and vector products of two and three vectors and their applications.

**Dynamics:** Velocity, composition of velocity, relative velocity, acceleration, composition of accelerations, Motion under gravity, Projectiles, Laws of motion, Principles of conservation of momentum and energy, direct impact of smooth bodies.

**Statics:** Composition of coplanar, concurrent and parallel forces moments and couples resultant of set of coplanar forces and condition of equilibrium, determination of centroid in simple cases, Problems involving friction.

## **PAPER – 2 (PHYSICS, CHEMISTRY & BIOLOGY)**

### **Section A, PHYSICS**

**Measurement:** Dimensional analysis and error estimation, dimensional compatibility and significant figures.

**Motion in one dimension:** Average velocity, instantaneous velocity, one-dimensional motion with constant accelerations, freely falling bodies.

**Laws of Motion:** Force and inertia, Newton's laws of motion, and their significance.

**Motion in two dimensions:** Projectile motion, uniform circular motion, tangential and radial acceleration in curve-linear motion, relative motion and relative acceleration.

**Work, Power and Energy:** Work done by a constant and variable forces, kinetic and potential energy, power, Conservative and non-conservative forces, conservation of energy, gravitational energy, work energy theorem, potential energy stored in a spring.

**Linear Momentum & collisions:** Linear momentum & impulse, conservation of linear momentum for two particle system, collisions, collision in one dimension, collision in two dimension, rocket propulsion.

**Rotation of a rigid body about a fixed axis:** Angular velocity and angular acceleration, rotational kinematics, rotational motion with constant angular acceleration relationship between angular and linear quantities, rotational energy, moment of inertia for a ring, rod, spherical shell, sphere and plane lamina, torque and angular acceleration, work and energy in rotational motion, rolling motion of a solid sphere and cylinder.

**Gravitation:** Gravitational field, Kepler's laws and motion of planets, planetary and satellite motion, geostationary satellite.

**Oscillatory motion:** Harmonic motion, oscillatory motion of mass attached to a spring, kinetic & potential energy, Time Period of a simple pendulum, comparing simple and harmonic motion with uniform circular motion, forced oscillations, damped oscillations and resonance.

**Mechanics of solids and fluids:** States of matter young's modulus, bulk modulus, shear modulus of rigidity, variations of pressure with depth, Buoyant forces and Archimedes principle, Pascal's law, Bernoulli's theorem and its application, surface energy, surface tension, angle of contact, capillary rise, coefficient of viscosity, viscous force, terminal velocity, Stoke's law, stream line motion, Reynold's numbers.

**Heat and thermodynamics:** First law of thermodynamics, specific heat of an ideal gas at constant volume and constant pressure, relation between them, thermodynamics process (reversible, irreversible, isothermal, adiabatic), second law of thermodynamics, concept of entropy and concept of absolute scale, efficiency of a Carnot engine, thermal conductivity, Newton's law of cooling, black body radiation, Wien's displacement law, Stefan's law.

**Wave:** Wave motion, phase, amplitude and velocity of wave, Newton's formula for longitudinal waves, propagation of sound waves in air, effect of temperature and pressure on velocity of sound, Laplace's

correction, Principle of superposition, formation of standing waves, standing waves in strings and pipes, beats, Doppler's effect.

**Electrostatics:** Coulomb's law, electric field and potential due to point charge, dipole and its field along the axis and perpendicular to axis, electric flux, Gauss's theorem and its applications to find the field due to infinite sheet of charge, and inside the hollow conducting sphere, capacitance, parallel plate capacitor with air and dielectric medium between the Plates, series and parallel combination of capacitors, energy of a capacitor, displacement currents.

**Current Electricity:** Concept of free and bound electrons, drift velocity and mobility, electric current, Ohm's law, resistivity, conductivity, temperature dependency of resistance, resistance in series and parallel combination, Kirchhoff's law and their application to network of resistances, principle of potentiometer, effect of temperature on resistance and its application.

**Magnetic Effect of Current:** Magnetic field due to current, Biot-Savart's law, magnetic field due to solenoid, motion of charge in a magnetic field, force on a current carrying conductors and torque on current loop in a magnetic field, magnetic flux, forces between two parallel current carrying conductors, moving coil galvanometer and its conversion into ammeter and voltmeter.

**Magnetism in Matter:** The magnetization of substance due to orbital and spin motions of electrons, magnetic moment of atoms, diamagnetism, paramagnetism, ferromagnetism, earth's magnetic field and its components and their measurement.

**Electro magnetic induction:** Induced e.m.f., Faraday's laws, Lenz's law, electromagnetic induction, self and mutual induction, B-H curve, hysteresis loss and its importance, eddy currents.

**Ray Optics and optical instruments:** Sources of light, luminous intensity, luminous flux, illuminance, photometry, wave nature of light, Huygen's theory for propagation of light and rectilinear propagation of light, reflection of light, total internal reflection, reflection and refraction at spherical surfaces, focal length of a combination of lenses, spherical and chromatic aberration and their removal, refraction and dispersion of light due to a prism, simple and compound microscope, reflecting and refracting telescope, magnifying power and resolving power.

**Wave Optics:** Coherent and incoherent sources of light, interference, young's double slit experiment diffraction due to a single slit, linearly polarized light, Polaroid.

**Modern Physics:** Photo-electric equation, matter waves, quantization, Planck's hypothesis, Bohr's model of hydrogen atom and its spectra, ionisation potential, Rydberg constant, solar spectrum and Fraunhofer lines, fluorescence and phosphorescence, X-Rays and their productions, characteristic and continuous spectra.

Nuclear Instability, radioactive decay laws, Emission of  $\alpha$ ,  $\beta$ ,  $\gamma$  rays, Mass - defect, Mass Energy equivalence, Nuclear Fission Nuclear Reactors, Nuclear Fusion.

Classification of conductors, Insulators and semiconductors on the basis of energy bands in solids, PN junction, PN Diode, junction Transistors, Transistor as an amplifier and Oscillator.

Principles of Logic Gates ( AND, OR and NOT ) Analog Vs Digital communication, Difference between Radio and television, Signal propagation, Principle of LASER and MASER, Population Inversion, Spontaneous and stimulated Emission.

## **Section B, CHEMISTRY**

**Atomic Structure:** Bohr's concept. Quantum numbers, Electronic configuration, molecular orbital theory for homonuclear molecules, Pauli's exclusion principle.

**Chemical Bonding:** Electrovalency, co-valency, hybridization involving s, p and d orbitals hydrogen bonding.

**Redox Reactions:** Oxidation number, oxidising and reducing agents, balancing of equations.

**Chemical Equilibrium and Kinetics:** Equilibrium constant (for gaseous system only) Le Chatelier's principle, ionic equilibrium, Ostwald's dilution law, hydrolysis, pH and buffer solution, solubility product, common-ion effect, rate constant and first order reaction.

**Acid - Base Concepts:** Bronsted Lowry & Lewis. **Electrochemistry:** Electrode potential and electro-chemical series. **Catalysis:** Types and applications.

**Colloids:** Types and preparation, Brownian movement, Tyndall effect, coagulation and peptization.

**Colligative Properties of Solution:** Lowering of vapor pressure, Osmotic pressure, depression of freezing point, elevation of boiling point, determination of molecular weight.

**Periodic Table:** Classification of elements on the basis of electronic configuration, properties of s,p and d block elements, ionization potential, electronegativity & electron affinity.

**Preparation and Properties of the following:** Hydrogen peroxide. copper sulfate, silver nitrate, plaster of Paris, borax, Mohr's salt, alums, white and red lead, microcosmic salt and bleaching powder, sodium thiosulfate.

**Thermochemistry:** Exothermic & endothermic reactions Heat of reaction, Heat of combustion & formation, neutralisation, Hess's law.

**General Organic Chemistry:** Shape of organic compounds, Inductive effect, mesomeric effect, electrophiles & nucleophiles, Reaction intermediates: carbonium ion, carbanions & free radical, Types of organic reactions, Cannizzaro Friedel Craft, Perkin, Aldol condensation.

**Isomerism:** Structural, Geometrical & Optical **IUPAC:** Nomenclature of simple organic compounds.

**Polymers:** Addition & condensation polymers **Carbohydrates:** Monosaccharides.

**Preparation and Properties of the Followings:** Hydrocarbons, monohydric alcohols, aldehydes, ketones, monocarboxylic acids, primary amines, benzene, nitrobenzene, aniline, phenol, benzaldehyde, benzoic acid, Grignard Reagent.

**Solid State:** Structure of simple ionic compounds, Crystal imperfections (point defect only), Born-Haber cycle

**Petroleum:** Important industrial fractions, cracking, octane number, anti-knocking compounds.

## **Section-C BIOLOGY**

### **Zoology**

**Origin of Life:** Oparin's theory, Miller's Experiment, Viruses - structure, properties, distribution, classification and pathogenesis (Eg. AIDS, CANCER), Viroids & Prions, Biotic balance.

**Organic Evolution:** Relationship among organisms and Evidences of organic Evolution - Principles of Evolution - Lamarckism, Darwinism and Speciation.

**Mechanism of Organic Evolution:** Variations - Definition, causes and types, Mutations (Principles of Hugo de Vries), Role of mutations in speciation. Evolution through ages and human evolution

**Human Genetics and Eugenics:** Human hereditary traits, study of Twins, A.B.O. blood groups and their inheritance, Rh-factor, Sex determination. Chromosomal aberrations, Important human syndromes, Sex linked characters and their inheritance, Applied Genetics - eugenics, eugenics, eugenics & I.Q. Test.

**Applied Biology:** Wild life of India - Endangered species: Biosphere Reserves, National Parks and sanctuaries, Project Tiger, Conservation of wild life, Bio-energy, Poultry, Fisheries (edible fishes), Human



Population, Population explosion, problems & control. Test - Tube babies, & Amniocentesis, Application of Biotechnology in human welfare. Human Aging.

**Mammalian Anatomy (Eg. Rabbit):** Reproductive system (excluding embryonic development) Osteology, structure and organization of different systems.

**Animal Physiology:**

(A) *Animal Nutrition:* Food, Balanced diet, Nutritional imbalances and deficiency diseases, Digestion, Absorption, Assimilation of food, (comparison between human and Rabbit).

(B) *Animal Excretion and Osmoregulation:* Chemical nature of excretory products in various animals, Physiology of excretion, Function of liver and kidney (Homeostatic regulatory functions of kidneys), Formation of urine, Osmoregulation by kidneys.

(C) *Respiratory system:* Exchange and transport of gases ( $O_2$  and  $CO_2$ ) factors affecting  $O_2$  and  $CO_2$  transport, Cellular respiration, different lung volumes, breathing and sound production.

(D) *Nervous systems:* Central, autonomic and peripheral nervous system, Receptors, Effectors, Reflex- action. Nature and conduction of Nerve- impulses, Synapse, Sense organs - Structure & working of Eye & Ear, Biochemistry of vision and taste buds.

(E) *Endocrine System:* Different endocrine glands and Hormones - definition, types, characteristics and their functions, (in relation to human beings), Hormonal disorders and pheromones.

(F) *Circulatory System:* Circulation of body fluids- Blood and lymph, Open and closed vascular systems, Structure and working physiology of Heart, Comparison between arteries and veins, Lymphatic system.

(G) *Animal Diversity:* Classification of Animal kingdom (Based on Storer & Eusinger), Characteristic feature of different phyla and classes with examples.

**Detailed studies of followings:**

- (a) Protozoa
  - (i) Amoeba-Habit & Habitat, structure, locomotion, reproduction, Osmoregulation, Parasitic amoeba - Entamoeba histolytica and Entamoeba gingivalis, structure, diseases caused by them and their control measures.
  - (ii) Plasmodium vivax-life-cycle, malaria therapy and control.
  - (iii) Protozoan and diseases
- (b) Porifera: A simple sponge ( Leucosolenia); Detailed study of structure & physiology, Sponge industry.
- (c) Coelenterata: Hydra - Habit and Habitat, morphology, tissue differentiation in relation to physiological division of labour and regeneration.
- (d) Aschelminthes: Ascaris- morphology, life-cycle, therapy and control.
- (e) Annelida: Pheretima posthuma - Bionomics and economic importance.
- (f) Arthropoda: (Periplaneta): Structure- external and internal.

**Comparison between Periplaneta and Blatta.**

- (i) House fly & Mosquito: structure and life-cycle
- (ii) Economic importance of insects & their control.

**Botany**

**Plant Cell:** Structure & functions electron microscopic structured mitochondria, Plastids centrosomes. Lysosomes, microsomes, endoplasmic reticulum, Nucleus, Golgi bodies, D.N.A & R.N.A. Cytoplasm, membranes and cell wall.

**Protoplasm:** structure, components physical and chemical properties.

Cell division (formation) - free cell formation, Amitosis & Meiosis, Duplication of D.N.A.

**Ecology:** Ecological factors (atmospheric, edaphic, climatic, geological & biotic factors).

**Ecosystem:** Structure, components of ecosystem eg. Water soluble minerals and gases, producers consumers, decomposers, Pond and forest ecosystem.

Atmospheric pollution-causes and control, Types of pollution - Detergents, chemicals automobile exhaust, Radioactive matter, Smog, sound, Pesticides.

**Genetics:** Mendalism, Mendals experiment and law of inheritance.

Modern Classification of plant kingdom- (according to Ostwald & Tipppo) (outline).

**Seeds in angiospermic plants:** description of development of angiospermic plants (life history of angiospermic plants).

**Fruits:** Dispersal of fruits and seeds

**Cell differentiation Plant Tissue:** Meristematic classification of meristematic&permanent tissue and functions and classification of tissue system.

**Anatomy of Root, stem and leaf:** difference between dicot and Monocot stem. Secondary growth of stem and root. Anatomy of hydrophytes, Xeophytes & Mesophytes.

**Important phylums:**

Algae: Habitat, general characters & uses, description of ulothrix & spirogyra. Bacteria: structure - types of nutrition, reproduction and economic importance.

Fungi: structure description of Rhizopus and yeast and their economic importance, Fermentation. Broyophyta: structure and economic importance, description of funaria (Moss)

Pteridophyta: general structures of pteridophytes description of fern (Droypteris) General study of gymnosperms and life history of cycas.

Classification of angiosperm,

Description of families - identification and economic importance Cruciferae, Malvaceae, Leguminosae, compositeae, cucurbitaceae. **Soil:**

Absorption of water through root hairs osmosis, Translocation and Root pressure Nitrogen cycle.

Special modes of nutrition in plants (Autotrophic, heterotrophic, Parasites, saprophytes, Symbionts insectivorous and their ecological relation.

**Photosynthesis:** Chloroplast, light, chlorophyll and Carbon dioxide, Mechanism of photosynthesis formation of A.T.P. and their functions and importance of photosynthesis.

Transpiration: factors and importance, Mechanism of opening and closing of stomata.

Respiration: aerobic, anaerobic respiration, mechanism of respiration (Glycolysis, Kreb's cycle, E.T.S.)

Growth & movement: definition of growth, Region of growth & their measurements, types of movements in plants, Growth harmone.

## **PAPER – 3 (APTITUDE TEST FOR ARCHITECTURE& DESIGN)**

### **Part – A: Mathematics & Aesthetic Sensitivity**

#### **MATHEMATICS**

**Algebra:** Sets relations & functions, De-Morgan's Law, Mapping Inverse relations, Equivalence relations, Peano's axioms, Definition of rationals and integers through equivalence relation, Indices and surds, Solutions of simultaneous and quadratic equations, A.P., G.P. and H.P., Special sums i.e.  $\sum n^2$  and  $\sum n^3$  ( $n \sum N$ ), Partial fraction, Binomial theorem for any index, exponential series, Logarithm and Logarithmic series. Determinants and their use in solving simultaneous linear equations, Matrices, Algebra of matrices, Inverse of a matrix, Use of matrix for solving equations.

**Probability:** Definition, Dependent and independent events, Numerical problem on addition and multiplication, theorem of probability.

**Trigonometry:** Identities, Trigonometric equations, properties of triangles, solution of triangles, heights and distances, Inverse function, Complex numbers and their properties, Cube roots of unity, De-Moivre's theorem.

**Co-ordinate Geometry:** Pair of straight lines, Circles, General equation of second degree, parabola, ellipse

and hyperbola, tracing of conics.

**Calculus:** Limits & continuity of functions, Differentiation of function of function, tangents & normal, Simple examples of Maxima & Minima, Indeterminate forms, Integration of function by parts, by substitution and by partial fraction, definite integral, application to volumes and surfaces of frustums of sphere, cone and cylinder. Differential equations of first order and of first degree.

**Vectors :** Algebra of vectors, scalar and vector products of two and three vectors and their applications.

**Dynamics:** Velocity, composition of velocity, relative velocity, acceleration, composition of accelerations, Motion under gravity, Projectiles, Laws of motion, Principles of conservation of momentum and energy, direct impact of smooth bodies.

**Statics:** Composition of coplanar, concurrent and parallel forces moments and couples resultant of set of coplanar forces and condition of equilibrium, determination of centroid in simple cases, Problems involving friction.

### **Aesthetic sensitivity**

Aesthetic sensitivity Test is aimed to evaluate a candidate for aesthetic Perception, Imagination, and Observation; Creativity and Communication; and Architectural awareness.

- Visualizing three dimensional objects from two dimensional drawings
- Visualizing different sides / surfaces of three dimensional objects.
- Identifying commonly used materials and objects based on their textural qualities.
- Analytical Reasoning
- Mental Ability
- Imaginative comprehension and expression
- Architectural awareness

### **Part- B: Drawing Aptitude**

The Drawing Aptitude Test is aimed to evaluate a candidate for his understanding of Scale and Proportion; sense of perspective, color and; understanding of the effects of light on objects through shades and shadows

- Ability to sketch a given object proportionately and rendering the same in visually appealing manner
- Visualising and drawing the effects of light on the objects and their shadow cast on the surroundings.
- Sense of Perspective Drawing
- Combining and composing given three dimensional elements to form a building or structural form
- Creating interesting two dimensional compositions using given shapes or planner forms
- Creating visual harmony using colors in given composition
- Understanding of scale and sense of proportion

## **PAPER – 4 (APTITUDE TEST FOR GENERAL AWARENESS (BHMCT/BFAD/BFA/ MBA (Integrated))**

### **(A) Reasoning & Logical Deduction:**

- Geometrical designs & Identification
- Selection of related letters / words / numbers / figures
- Identification of odd thing / item out from a group
- Completion of numerical series based on the pattern / logic
- Fill in the blanks of the series based on the numerical pattern and logic of the series
- Syllogisms (logic based questions), Identification of logic & selection of correct answers based on the

logic

**(B) Numerical Ability & Scientific Aptitude:**

- Arithmetical questions up to 10<sup>th</sup> standard
- Calculation of fraction, percentages, square root setc.
- Profit & Loss and Interest calculations
- Data/Table analysis, Graph & Bar Diagram and Pie Chart analysis
- Questions related to common use of science (Physics & Chemistry)
- Health & Nutrition

**(C) General Knowledge:**

- Current affairs / Events (Political, Social, Cultural & Economics)
- Historical events
- Geography including Tourist Places/Spots
- Current affairs relating to Business & Trade
- Countries & Currencies
- Latest Who's Who?
- Sports & Games

**(D) English Language:**

- Word Meanings
- Antonyms & Synonyms
- Meaning of Phrases & Idioms
- Fill in the blanks
- Complete / Improvement of the sentences with correct use of Pronouns, Verbs, Adverbs & Adjectives
- Reading comprehension's followed by questions

**PAPER – 5 (APTITUDE TEST FOR LATERAL ENTRY IN ENGINEERING (B.SC. GRADUATES) / LATERAL ENTRY IN 2<sup>nd</sup> Year MCA )**

**Part 1: Mathematics**

**Algebra:** Sets relations & functions, De-Morgan's Law, Mapping Inverse relations, Equivalence relations, Peano's axioms, Definition of rationals and integers through equivalence relation, Indices and surds, Solutions of simultaneous and quadratic equations, A.P., G.P. and H.P., Special sums i.e.  $\sum n^2$  and  $\sum n^3$  ( $n \sum N$ ), Partial fraction, Binomial theorem for any index, exponential series, Logarithm and Logarithmic series. Determinants and their use in solving simultaneous linear equations, Matrices, Algebra of matrices, Inverse of a matrix, Use of matrix for solving equations.

**Probability:** Definition, Dependent and independent events, Numerical problem on addition and multiplication, theorem of probability.

**Trigonometry:** Identities, Trigonometric equations, properties of triangles, solution of triangles, heights and distances, Inverse function, Complex numbers and their properties, Cube roots of unity, De-Moivre's theorem.

**Co-ordinate Geometry:** Pair of straight lines, Circles, General equation of second degree, parabola, ellipse and hyperbola, tracing of conics.

**Calculus:** Limits & continuity of functions, Differentiation of function of function, tangents & normal, Simple examples of Maxima & Minima, Indeterminate forms, Integration of function by parts, by substitution and by partial fraction, definite integral, application to volumes and surfaces of frustums of sphere, cone and cylinder.

Differential equations of first order and of first degree.

**Vectors:** Algebra of vectors, scalar and vector products of two and three vectors and their applications.

**Dynamics:** Velocity, composition of velocity, relative velocity, acceleration, composition of accelerations, Motion under gravity, Projectiles, Laws of motion, Principles of conservation of momentum and energy, direct impact of smooth bodies.

**Statics:** Composition of coplanar, concurrent and parallel forces moments and couples resultant of set of coplanar forces and condition of equilibrium, determination of centroid in simple cases, Problems involving friction.

### **Part 2: Computer Concepts**

**Computer Basics:** Organization of computer, Central Processing unit (CPU), Structure of instructions in CPU, Input/ Output devices, Computer memory, Memory organization,

**Data Representation:-** Representation of characters, Integers, Binary and hexadecimal representation, Binary arithmetic – addition, subtraction, division, multiplication, signed arithmetic and two's complement arithmetic. Floating point representation of numbers, normalized floating point representation, Boolean algebra, truth tables, Venn diagrams

**Data Structures-** Arrays, lists, stacks, queues

**Computer Architecture:** Block structure of computers, Communication between processor and I/O devices, Interrupts

**Computer Language:-** Assembly language and high level language, Computer programming in C

### **Operating System Basics**

## **PAPER – 6 (APTITUDE TEST FOR MBA/ MCA)**

The test is aimed at evaluating the verbal ability, quantitative aptitude, logical & abstract reasoning and knowledge of current affairs. The following is a brief description of contents of the test paper.

**Section A (English Language):** Grammar, vocabulary, uncommon words, sentence completion, synonyms, antonyms, relationship between words & phrases and comprehension of passages.

**Section B (Numerical Aptitude):** Numerical calculation, arithmetic, simple algebra, geometry and trigonometry, Interpretation of graphs, charts and tables.

**Section C (Thinking and Decision Making):** Creative thinking, unfamiliar relationships, verbal reasoning, finding patterns trends and Assessment of figures & diagrams.

**Section D (General Awareness):** Knowledge of current affairs and other issues related to trade, industry, economy, sports, culture and science.

## **PAPER – 7 (APTITUDE TEST FOR DIPLOMA HOLDERS IN PHARMACY)**

1. Pharmaceutics-I
2. Pharmaceutical Chemistry -I
3. Pharmacognosy
4. Biochemistry and Clinical Pathology
5. Human Anatomy and Physiology
6. Health Education & Community Pharmacy
7. Pharmaceutics -II
8. Pharmaceutical Chemistry -II
9. Pharmacology and Toxicology
10. Pharmaceutical Jurisprudence
11. Drug Store and Business management
12. Hospital and Clinical Pharmacy

## **PAPER – 8 (APTITUDE TEST FOR DIPLOMA HOLDERS IN ENGINEERING)**

Engineering Mechanics, Engineering Graphics, Basic Electrical Engg., Basic Electronics Engg., Elements of computer science, Elementary Biology, Basic Workshop Practice and Physics/Chemistry/Maths of Diploma standard.

## **Appendix B & C**

**List of Institutions/Branches/Intake of UG & PG Courses**

**Please see the Website: <http://www.upsee.nic.in> or <https://aktu.ac.in>**

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**CERTIFICATE – 1 (प्रमाण पत्र-1)**

**अनुसूचित जाति/जनजाति(UPSC/UPST/GDSC/GDST)**

(अभ्यर्थी के जन्म जिले के जिला मजिस्ट्रेट/प्रथम श्रेणी मजिस्ट्रेट द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0 ..... पुत्र/पुत्री श्री .....  
..... निवासी गाँव/शहर ..... तहसील ..... जिला .....  
.....प्रदेश ..... का जन्म ..... जाति में हुआ था और यह जाति  
अनुसूचित जाति/जनजाति आदेश (संशोधन) एक्ट 1956 के अन्तर्गत भारत सरकार/उत्तर प्रदेश  
शासन ..... सरकार द्वारा मान्य अनुसूचित जाति/जनजाति है।

अभ्यर्थी के हस्ताक्षर

हस्ताक्षर

दिनांक

नाम

स्थान

मोहर

जिला अधिकारी / अतिरिक्त जिला अधिकारी/

सिटी मजिस्ट्रेट / परगना मजिस्ट्रेट / तहसीलदार

Note: Performa of certificate shall be changed according to latest Govt. order.

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## CERTIFICATE – 2 (प्रमाण पत्र-2)

उत्तर प्रदेश के अन्य पिछड़े वर्ग के लिए जाति प्रमाण पत्र का प्रपत्र(UPBC/GDBC)

यह प्रमाणित किया जाता है कि श्री/श्रीमती /कुमारी .....  
सुपुत्र/सुपुत्री श्री .....निवासी ग्राम .....  
..... तहसील ..... नगर ..... जिला .....  
उत्तर प्रदेश राज्य की ..... पिछडी जाति के व्यक्ति हैं। यह जाति उत्तर प्रदेश लोक  
सेवा अनुसूचित जातियों । अनुसूचित जनजातियों तथा पिछडे वर्गों के लिए आरक्षण अधिनियम, 1994  
की अनुसूची – 1 के अन्तर्गत मान्यता प्राप्त है।  
यह भी प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी .....  
उक्त अधिनियम 1994 की अनुसूची –2 (अधिसूचना संख्या –22/16/92-का 02/1995 टी0 सी0  
दिनांक 8 दिसम्बर, 1995 द्वारा यथा संशोधित) से आच्छादित नहीं है।  
श्री/श्रीमती/कुमारी ..... तथा अथवा उनका परिवार उत्तर प्रदेश  
के ग्राम ..... नगर ..... जिला .....  
..... में सामान्यतया रहता है।

अभ्यर्थी के हस्ताक्षर

हस्ताक्षर

दिनांक

नाम

स्थान

मोहर

जिला अधिकारी / अतिरिक्त जिला अधिकारी /

सिटी मजिस्ट्रेट / परगना मजिस्ट्रेट / तहसीलदार

**Note that the Certificate No. 2 for OBC candidates will be entertained only if it is valid as on 31.07.2019, in case a certificate has no validity mentioned it should be issued on or after 01.04.2019 (mandatory due to condition of creamy layer for OBC).**



### CERTIFICATE – 3(प्रमाण पत्र-3)

उत्तर प्रदेश के मूल/सामान्य निवासी के पुत्र/पुत्री(UPGD/GDSC/GDST/GDBC)  
(उस जिले के अधिकारी द्वारा प्रमाणित जिस जिले के माता/पिता निवासी है)

यह प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के पिता/माता का नाम) .....  
.....पिता/माता श्री/कु0(अभ्यर्थी का नाम)..... उत्तर प्रदेश  
के गाँव/शहर ..... तहसील ..... जिला .....  
के मूल निवासी हैं तथा श्री/कु0 (अभ्यर्थी का नाम) .....अपने  
पिता/माता पर पूर्णतया आश्रित हैं। उक्त पते पर श्री/कु0 (अभ्यर्थी का नाम) .....  
.....के माता/पितासामान्यतः निवास करते हैं।

दिनांक  
स्थान

हस्ताक्षर जिला मजिस्ट्रेट  
पूरा नाम  
पदनाम  
मुहर (जिला मजिस्ट्रेट की सील)

जिला मजिस्ट्रेट अथवा जिला मजिस्ट्रेट द्वारा अधिकृत अपर जिला मजिस्ट्रेट/सब डिवीजन मजिस्ट्रेट  
द्वारा प्रमाण पत्र ही मान्य होंगे जो शा0आ0 सं0-157/तीन -2003-77(II)/83 दिनांक 18 फरवरी,  
2003 के अधीन जारी किया जायेगा।

नोट-प्रमाण पत्र-3 अभ्यर्थी के माता/पिता का बना होना चाहिए क्योंकि अभ्यर्थी जिन्होंने अर्हकारी  
परीक्षा उत्तर प्रदेश के बाहर स्थित किसी विद्यालय से उत्तीर्ण की है परन्तु उनके माता/पिता उत्तर  
प्रदेश के मूल/स्थायी निवासी हैं परीक्षा में बैठने के पात्र हैं।

### CERTIFICATE – 4 (प्रमाण पत्र-4)(Sub-Category UPPF)

उत्तर प्रदेश लोक सेवा (शारीरिक रूप से विकलांग, स्वतंत्रता संग्राम सेनानी के आश्रितों और भूतपूर्व  
सैनिकों के लिए आरक्षण) अधिनियम, 1993 के अनुसार स्वतंत्रता संग्राम सेनानी के आश्रित के प्रमाण  
पत्र का प्रपत्र

प्रमाणित किया जाता है कि श्री/श्रीमती (स्वतंत्रता संग्राम सेनानी का नाम) .....  
निवासी ग्राम .....तहसील ..... नगर .....  
जिला ..... उत्तर प्रदेश लोक सेवा (शारीरिक रूप से विकलांग, स्वतंत्रता संग्राम  
सेनानी के आश्रितों और भूतपूर्व सैनिकों के लिए आरक्षण) अधिनियम 1993 के अनुसार स्वतंत्रता  
संग्राम सेनानी हैं और श्री/श्रीमती/कु0(आश्रित अभ्यर्थी का नाम) .....  
..... पुत्र/पुत्री/पौत्र/अविवाहित पौत्री उपरांकित अधिनियम, 1993 के ही प्रावधानों के अनुसार उक्त  
श्री/श्रीमती (स्वतंत्रता संग्राम सेनानी) ..... के आश्रित हैं।

दिनांक  
स्थान

हस्ताक्षर  
पूरा नाम एवं पदनाम  
मुहर (जिला मजिस्ट्रेट की सील)

Note: Proforma of certificate may be changed according to latest Govt. order.

## CERTIFICATE – 5 (प्रमाण पत्र-5)

### Part – A

उत्तर प्रदेश/सेना दल(Sub-Category UPAF)

(अंतिम यूनिट के आफिसर कमान्डिंग/जिला सैनिक कल्याण बोर्ड द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के पिता अथवा माता का नाम) .....  
.....निवासी गाँव/शहर ..... तहसील ..... जिला .....  
.....उत्तर प्रदेश, के दिनांक .....को सेवा निवृत्त (Superannuated) युद्ध में मारे  
गये/अपंग हो गये/उत्तर प्रदेश में वर्तमान में तैनात है। वे भारतीय थलसेना/जलसेना/वायुसेना के  
स्थान ..... दिनांक..... से दिनांक ..... तक कार्यरत  
थे/हैं।

दिनांक

स्थान

यूनिट कमान्डिंग आफिसर के हस्ताक्षर

नाम

मोहर

### Part – B

(जिला मजिस्ट्रेट द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी) ..... निवासी .....  
.....उत्तर प्रदेश गाँव/शहर ..... तहसील ..... जिला .....  
उपरोक्त सेना दल के सेवा निवृत्त(Superannuated)युद्ध में मारे गये या अपंग हो गये कर्मचारी जो  
उत्तर प्रदेश के स्थायी निवासी हैं/थे, के पुत्र/पुत्री हैं अथवा प्रवेश परीक्षा की तिथि को उत्तर प्रदेश  
भारतीय थलसेना/जल सेना/वायुसेना में कार्यरत थे/हैं।

दिनांक

स्थान

हस्ताक्षर

नाम

मोहर

## CERTIFICATE – 6 (प्रमाण पत्र-6) (Sub-Category UPHC)

शारीरिक विकलांग के अधिमान के लिए प्रमाण पत्र (मुख्य चिकित्सा अधिकारी द्वारा प्रमाणित)

- 1- यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी) .....  
पुत्र/पुत्री श्री (पिता का नाम) ..... नीचे लिखे कारणों से शारीरिक रूप से  
विकलांग हैं।

(केवल मुख्य चिकित्सा अधिकारी ही कारण लिखें).....

2. अभ्यर्थी की उपरोक्त विकलांगता को निम्न प्रकार की विकलांगता की श्रेणी में रखा जा सकता है।  
(कृपया ✓ का निशान लगायें)

Type - I: Minimum 40% permanent Visual impairment	
Type-II: Minimum 40% permanent Locomoter disability	
Type-III: Minimum 40% permanent Speech Hearing impairment	

- 3- यह भी प्रमाणित किया जाता है कि उपरोक्त विकलांग स्थिति अभ्यर्थी के इन्जीनियरिंग शिक्षा प्राप्त करने में बाधक नहीं होगी।

अभ्यर्थी के हस्ताक्षर

नाम

दिनांक

चिकित्साधिकारी के हस्ताक्षर

नाम

मुहर

## CERTIFICATE – 7 (प्रमाण पत्र-7)

उत्तर प्रदेश ग्रामीण क्षेत्र के लिये अधिमान (UPGE)  
(कालेज के प्रधानाचार्य द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु0(अभ्यर्थी) ..... ने .....  
..... कालेज गाँव ..... से इण्टरमीडिएट की शिक्षा  
प्राप्त की। यह कालेज तहसील ..... जिला ..... उत्तर प्रदेश  
के ग्रामीण क्षेत्र में स्थित है तथा ग्राम पंचायत के कार्य क्षेत्र के सीमा के अन्दर है और यह क्षेत्र  
औद्योगिक विकसित क्षेत्र नहीं है।

दिनांक

हस्ताक्षर

स्थान

नाम

मुहर

(जिला विद्यालय निरीक्षक एवं जिला मजिस्ट्रेट द्वारा प्रमाणित)

प्रधानाचार्य द्वारा दिया गया कालेज की स्थिति से संबंध उपरोक्त वक्तव्य प्रमाणित किया जाता है।

दिनांक

हस्ताक्षर जिला विद्यालय निरीक्षक

स्थान

नाम

मुहर

दिनांक

प्रति हस्ताक्षरित जिला/अपर/उप जिला मजिस्ट्रेट

स्थान

नाम

मुहर

## CERTIFICATE – 8 (प्रमाण पत्र-8)

CHARACTER CERTIFICATE FROM THE HEAD OF  
THE INSTITUTION LAST ATTESTED

This is to certify that Sri / Km. \_\_\_\_\_  
has been a bonafide student of \_\_\_\_\_  
from \_\_\_\_\_ to \_\_\_\_\_ and  
has passes / appeared at the \_\_\_\_\_  
examination in the year \_\_\_\_\_

### Proctorial reports:

1. Has he / she involved himself / herself if any act of indiscipline? Yes / No
2. Has he / she been warned, Fined or punished for any act of indiscipline? Yes / No
3. Has he / she been restricted or expelled from Hostel of College for any reason? Yes/ No
4. Has he / she been involved in any act of indisiple outside the College campus like  
group clashes or fraction fights etc. Yes/ No
5. Has he / she been addicted to drugs or intoxicants? Yes/ No

General remarks (Please state your assessment of the student)

Date :

Signature \_\_\_\_\_

Name \_\_\_\_\_

Designation \_\_\_\_\_

## CERTIFICATE – 9 (प्रमाण पत्र-9)

### \* FORMAT FOR MEDICAL CERTIFICATE

(To be obtained from a Chief Medical Officer or Medical Officer of a participating U.P. State Funded Engg. Institute)

This certificate has to be submitted at the time of admission in the college allotted.

Name of Candidate:		Age:	Sex:	
UPSEE-2019 Roll No.:		Category:	Subcategory & Weightage:	
State Rank Position:		Father's Name: ( To be filled in by the Candidate )		
L.T. Height	M.I. Weight	Chest Abdomen	VISION Colour Vision: Without glass: With glass:	
History	Operation	Kockh's	Colics	B.P.
	Seizures	Asthma	Piles	Diabetes
EXAMINATION	Pulse	Tonsil	DNS	Hernia
	Pallor	L.Nodes	CSOM	Hydrocele
	Cardiovascular		CNS	
	Respiratory		GIT	
Genitourinary		Others		
Is the candidate physically handicapped/Disabled:		<input type="checkbox"/>	(Please tick) Yes / No	
If yes, type of handicap/disability:		<input type="checkbox"/>	Type -I: Minimum 40% permanent Visual impairment	
(Please tick ✓ the type of handicap/disability)		<input type="checkbox"/>	Type-II: Minimum 40% permanent Locomoter disability	
		<input type="checkbox"/>	Type-III: Minimum 40% permanent speech and Hearing impairment	
Any other finding:				
Certified that the candidate is physically fit/unfit/temporally disqualified to pursue engineering studies				
Signature of Candidate		Signature of the issuing Medical Officer ( with Official stamp)		

## CERTIFICATE – 10 (प्रमाण पत्र-10)

### UNDERTAKING BY CANDIDATE FOR MEDICAL FITNESS

I certify that I have no such physical handicap/disability which would hinder the pursuit of studies in the courses in which I am seeking admission. If at stage it is found that I have a physical handicap/ disability which would hinder the pursuit of studies in the courses in which I am seeking admission then my admission will be liable to be cancelled. I will produce medical fitness certificate from a C.M.O./C.M.S. at the time of my joining the institution allotted by UPSEE-2019 counselling.

Dated:

Counter Signed by Father / Guardian

Signature of the Candidate

## CERTIFICATE – 11 (प्रमाण पत्र-11)

### अखिल भारतीय सेवा के उ0प्र0 कैंडर के अधिकारियों/कर्मचारियों हेतु

प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के माता/पिता का नाम) .....  
.....पदनाम .....विभाग का नाम ..... कैंडर संख्या .....  
.....अखिल भारतीय सेवा के उ0प्र0 कैंडर के अधिकारी/कर्मचारी है तथा वर्तमान में इस  
कार्यालय में कार्यरत हैं। यह प्रमाण पत्र इनके पुत्र/पुत्री (अभ्यर्थी का नाम) .....  
.....कोडा0 ए0पी0जे0 अब्दुल कलाम प्राविधिक विश्वविद्यालय उत्तर प्रदेश, लखनऊ के अन्तर्गत  
प्रवेश हेतु प्रदान किया जाता है।

दिनांक: .....

हस्ताक्षर

विभागाध्यक्ष/कार्यालयाध्यक्ष का

नाम एवं पदनाम  
मुहर

## CERTIFICATE-12 (प्रमाण पत्र-12) (Income Certificate)

क्षेत्रीय भूलेख निरीक्षक तथा लेखपाल की जांच रिपोर्ट के आधार पर प्रमाणित किया जाता है कि  
----- (आवेदक के अभिभावक/माता/पिता का नाम) सुपुत्र  
----- निवासी/ग्राम ----- परगना  
----- तहसील ----- नगर ----- जिला  
----- राज्य ----- के स्वयं की मासिक आय रूपया  
----- तथा वार्षिक आय रूपया ----- है।  
लेखपाल की रिपोर्ट के अनुसार आय का स्रोत ----- है।

स्थान:

दिनांक:

तहसीलदार  
मुहर

नोट- अभ्यर्थी ध्यान दें कि उ0प्र0 के आर्थिक रूप से कमजोर अभ्यर्थियों के लिए प्रमाण पत्र अप्रैल  
01, 2019 के पश्चात का बना हुआ होना आवश्यक है।

## Appendix - E

The UPSEE-2019 will be held at various cities as given in the following tables. The candidates are advised to give three choices of examination cities.

The UPSEE-2019 will be held at various cities as given in the following tables. The candidates are advised to give three choices of examination cities.

**All Papers are OMR based Tests and shall be held in various cities given in the Examination City Table**

### Examination City (OMR Based Test)

Cities in State of U.P.			
Agra	Firozabad	Mathura	Aligarh
Allahabad	Azamgarh	Ballia	Mau
Bareilly	Shahjanpur	Basti	Banda
Gonda	Ambedkar Nagar	Barabanki	Faizabad
Sultanpur	Deoria	Gorakhpur	Kushinagar
Jalaun (Orai)	Jhansi	Etawah	Kanpur Nagar
Kanpur Dehat	Lakhimpur Kheri	Lucknow	Raebareili
Sitapur	Bulandshahr	Noida	Greater Noida
Ghaziabad	Meerut	Mirzapur	Bijnaur
Moradabad	Muzaffarnagar	Saharanpur	Ghaziapur
Jaunpur		Varanasi	
Cities outside U.P.			
Bhopal	Dehradun	Delhi	Delhi
Patna	Ranchi	Jaipur	Kolkata
Mumbai	Rohtak	Jammu	Gauhati
Roorkee	Chandigarh	Chennai	Banglore
Hyderabad			

- (i) Candidates are advised to be very careful while giving their options for city of examination centre. Candidates are advised to choose cities of examination on the basis of the paper he/she has opted from the respective table i.e. Examination City Table-I.
- (ii) If any candidate chooses cities of examination where the examination for the paper opted is not being conducted, he/she shall be allotted an examination city from the respective list and same shall be binding upon the candidate.
- (iii) Certain examination cities may be cancelled if sufficient number of candidates does not opt for that city. Request for change of city of examination shall not be entertained under any circumstances.

## Appendix-F

### अनुसूचित जाति, अनुसूचित जनजाति एवम् ओबीसी जातियोजना

**The list of SC/ST/OBC categories shall be as notified by the Government of Uttar Pradesh as applicable on the day of counseling / admission.**

**The benefit of reserved categories/sub categories/rural weightage shall be admissible only upon submission of the required certificate in the format as given in Appendix-D.**

### IMPORTANT DATES

Opening of the link for Filling and Submission of <b>On-Line</b> Application Form form through the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a>	January 23, 2019 (2:00 PM)
Last Date for Filling and submitting the On-Line Application Form	March 15, 2019 (5.00 PM)
On-Line Partial Correction of filled and submitted On Line Application form through the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a>	Upto April 03, 2019 (5:00PM)
Opening of Link for Downloading of the Admit Card from the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a>	From April 15th 2019, 11.00 AM till date of examination
Dates of Examination (as applicable)	April 21,2019
Declaration of UPSEE-2019 Result	In the Last week of May 2019
<b>Note:</b> The Application Form can be filled On-Line only through the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a> The Confirmation page printed after submission of On-Line Application Form need to be preserved by the candidates. Print-out/hard copy/ photocopy of Confirmation page or any other document need not be sent to the University. The Admit Card shall be available to the candidates only through the website <a href="http://www.upsee.nic.in">http://www.upsee.nic.in</a>	

### SCHEDULE OF EXAMINATION

Date of Examination	Paper Code	Subjects	Timing (Total Time Period)
21 <sup>st</sup> April 2019 (Sunday)	Paper 1	Physics, Chemistry and Mathematics	11:30 AM to 14:30 PM (3 Hours)
	Paper 2	Physics, Chemistry and Biology	11:30 AM to 14:30 PM (3 Hours)
	Paper 3	Aptitude Test for Architecture & Design	3.00 PM to 5:30 PM (2 Hours 30 Minutes)
	Paper 4	Aptitude test for General Awareness	9:00 AM to 11:00 AM (2 Hours)
	Paper 5	Aptitude Test for Lateral Entry in Engg	9:00 AM to 11:00 AM (2 Hours)
	Paper 6	Aptitude Test for MBA/ MCA	3.00 PM to 5:30 PM (2 Hours 30 Minutes)
	Paper 7	Aptitude Test for Diploma Holders in Pharmacy	9:00 AM to 11:00 AM (2 Hours)
	Paper 8	Aptitude Test for Lateral Entry in Engg (Diploma Holders).	9:00 AM to 11:00 AM (2 Hours)