Ref/ Dir/19 /2020 19th Sep'20

OFFICE ORDER: 19/2020

Formation of Students Club 'TechEdventure' for Virtual Lab Development

- 1. Development of Virtual Labs/Experimental learning is the need of the hour to **supplement the online teaching learning process** so as to make it more effective as could clearly be perceived in today's context.
- 2. **TechEdventure Students Club** for **Virtual Lab Development** @ **Institute level** is hereby constituted with an objective to *promote awareness about Virtual labs* and *gradually develop labs/experiments across various disciplines* which are not available on virtual labs platform thereby cater to the needs of students i.e. apprise/provide them a platform to access laboratory experiments online/ explore concepts and theories without stepping into a physical lab *till the time of normalcy* / to enable them to learn at their own pace.
- 3. Dr. Sangeeta Arora, Associate Prof. (MCA) is hereby designated as Coordinator-TechEdventure Students Club for Virtual Lab Development with immediate effect.
- 4. A well-defined policy doc. covering the details *w.r.t.* objectives of the Club, its *structure and composition viz.* Coordinator, Co-Coordinators, departmental faculty Coordinators, Student Coordinators and student members their *roles & responsibilities*, student members *selection procedure & criterion*, *roadmap/ targets* with tentative deadlines etc. is attached at **Appendix- A** for a thorough understanding/clarity. The **targets beyond 30 June 2021** would be decided in consultation with Coordinator-TechEdventure Students Club & shall be issued separately by Dean A before the commencement of academic session each year.
- 5. The overall responsibility of running the club's activities smoothly @ department level shall be with departmental faculty Coordinators & respective HoDs. The entire team associated with the Club at **para 4** shall be **responsible to Coordinator** for their duties in their designated capacities. However, the overall implementation of the set targets in a phased manner shall be under the direct control and supervision of **Dean A** in close coordination with Coordinator & respective HoDs.
- 6. Dr. Sangeeta shall submit monthly progress *w.r.t.* Club's periodic progress/ planning etc. to Dean (A) on regular basis.
- 7. Dr. Sangeeta Arora shall be performing the above duties in addition to her regular academic engagement & will be **responsible to the Dean A** for this additional assignment.

Dr. (Col) A Garg Director

Distribution:

Joint Director/ Deans/ Principal-KSOP/ HoDs (CS/IT/EC/EN/EI/CE/ME/AS/MCA/MBA/HS/CS/CSIT), Addl. HoDs (CO/CSI), GM-TBI & Dean IEC, Head-CRPC, Head-CAM, Head-AEC, Head-IC, Addl. Head-IIPC, Chairperson-ICC, Head-IT Operations, Manager-IA, Head-HR, Registrar, Admin Officer, Accts Officer, Librarian, Purchase Officer, KIETians, Students

Copy to:

- Dr. Sangeeta Arora (MCA) Coordinator, TechEdventure Students Club
- Dean A For its smooth implementation @ Institute level

TechEdventure - Students Club for Virtual Lab Development

INTRODUCTION: Experimental learning has played significant role in the education. Through experiment, student can apply their theoretical and conceptual knowledge. By learning through practical, students will have knowledge for life long. If student will apply their subject knowledge in experiment, then they will be skilled and help to get their job in easy way.

With the collaboration of National level institutes like IITs, NITs, IIITs, **Virtual Labs** are launched in February 2012 by MHRD under National Mission on Education through Information and Communication Technology (NMEICT) with the following objectives:

- 1. To provide remote access to Labs in various disciplines of Science and Engineering. These Virtual Labs would cater to students at the undergraduate level, post graduate level as well as to research scholars.
- 2. To enthuse students to conduct experiments by arousing their curiosity. This would help them in learning basic and advanced concepts through remote experimentation.
- 3. To provide a complete Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional web-resources, video-lectures, animated demonstrations, and self-evaluation.
- 4. To share costly equipment and resources, which are otherwise available to limited number of users due to constraints on time and geographical distances.

OBJECTIVES:

The main objective of the "TechEdventure" Club is:

- To develop the labs & / or experiments which are not available on Virtual Labs platform.
- Mapping of existing virtual labs as available on AKTU Lucknow website https://aktu.ac.in/Virtual%20Lab.html.
- To organize activities for awareness of Virtual Labs.
- Encourage cross discipline lab experience
- Provide a channel between various department to make the development easier

SCOPE:

Strengthening of Virtual Lab - learning by doing environment- The club will be dedicated to supporting and development of the Virtual labs for various departments according to the AKTU scheme so that students should get 24x7 support. It will be only possible when all the departments come together and join their hands to work hard in this direction. Club will keep an eye on the development of the Virtual labs and provide a channel between the different departments so that with the help of each other, we will achieve success.

Provide the opportunity of Various Platforms- The club will also provide many advantages to the teacher. With virtual labs, teachers don't have to go to the lab at certain times and move from place to place to prepare the experiment. This saves plenty of effort and time- one of the most important goals of e-learning.

Guidance & Support- The club will be also providing guidance and support by connecting capable departments so that the faculty of various departments of our college will take the benefit, like if someone needs to develop the HTML code & or working on JAVA, visual C C++, the club will provide a channel between the two, so that hazards will be minimized for both the students and faculties.

STRUCTURE OF THE CLUB:

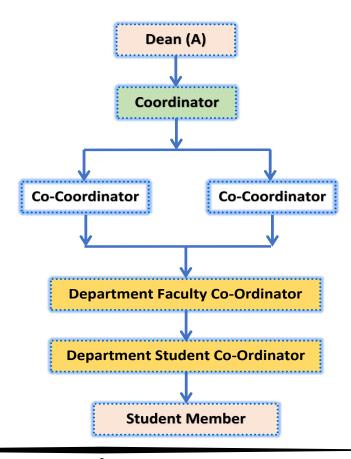


TABLE: ORGANIZATION OF THE CLUB					
Appointment	Name	Department			
Chair	Dr. Anil Ahlawat	Dean(A)			
Coordinator	Dr. Sangeeta Arora	MCA			
Co-Coordinator	Dr. Abhishek Sharma	ECE			
Co-Coordinator	Dr. Ajeet Kumar Singh	EN			
	Mr. Prashant Vashishtha	ME			
	Ms. Vineeta Pal	CE			
Faculty Coordinator	Mr. Nitesh Bhardwaj	CE			
	Mr. Ashish Bajpai	CSE			
	Ms. Sakshi	IT			
	Mr. Parth	ECE	III Year		
	Mr. Aditya Shukla	ME	III Year		
Student Coordinator	Mr. Tushar Baranwal	CE	III Year		
	Mr. Aditya Srivastava	EN	III Year		
	Mr. Kartikeya Gupta	CSE	III Year		
	Mr. Vaibhav Ji Srivastava	IT	III Year		
Student Member*	Student members will be selected through a selection criterion (*Approx. 15)				

ROLES/ RESPONSIBILITIES

COORDINATOR:

- Coordinate overall Club activities in the institute
- Initiation of Developments of labs & monitor the activity till the completion of the Virtual lab
- Collaborate and Communicate with IIT, Delhi for development activities to provide support our education system on country level
- Organization of awareness programs for Virtual Labs so that faculty and students take maximum benefits of the Virtual lab
- Compile all activities related to Virtual Labs
- Monitoring overall club activities.

CO-COORDINATOR:

- To promote usage of Virtual Labs in Institute
- Planning for development of Virtual Labs at the Institute level
- Coordination and associate with faculties and students for the development of Labs
- Track & monitor the progress and growthEffective management of student team for an active participation in the development of virtual lab at college level.

DEPARTMENT FACULTY COORDINATOR:

- Identify the subject expert for the development
- Communicate with TechEdventure coordinator for various activity of virtual lab development of the respective department
- Provide the weekly report of the development of Virtual Lab at department level.
- Organize the activities of Virtual Labs at department level (1 in each semester).
- Promote the usage of Virtual Labs at departmental level.
- Motivate students for development at department level.

STUDENT COORDINATOR:

- The student should be enthusiastic to work in a team and follow the rules and guidelines of the Club.
- Help faculty Coordinators to organize the activities.
- Follow all the deadlines as per the requirement.
- Responsible for the communication between tech support (Student/ Faculty) and student team member.

STUDENT MEMBER:

- Responsible for the development of Virtual Labs.
- Prepare and submit the progress report to Student /Faculty Coordinator on weekly basis.

STUDENT MEMBER SELECTION PROCEDURE:

- New Candidates Screening should be followed by below rounds:
 - Round 1: Coding/Programming in HTML, CSS and JavaScript
 - Round 2: Aptitude & reasoning test
 - Round 3: Algorithms development test
 - Round 4: Personal interview
- The students already participated in e-BOOTATHON will be directly selected.

STUDENT MEMBER SELECTION CRITERIA:

- 1. The student should be enthusiastic to work in a team and follow the rules and guidelines of the committee heads.
- 2. The student must have knowledge of website development and maintenance.
- 3. The student must have the knowledge of the computer server basics.
- 4. The student must be committed to finishing the assigned task by the committee in the given timeline.
- 5. The student should be regularly involved in the development of the virtual lab.
- 6. Hands-on experience in image/audio/video editing software.
- 7. Ability to work under pressure and meet deadlines.
- 8. Minimum 70% attendance is a must in the present academic year.
- 9. The student, from any department, must have the knowledge of specialized dedicated software used for the respective department.

Roadmap

Target Set

S.No.	Branch/Course	Number of Experiments Under Process	Number of Experiment to be Developed	Target Date
1	ME	3	5	Dec 2020
2	ECE	1	7	Dec 2020
3	EN	NIL	8	Dec 2020
4	CSE	NIL	8	June 2020
5	IT	NIL	8	June 2020
6	Civil Engineering	NIL	8	June 2020
7	Pharmacy	1	7	June 2020

Detail of Targets Under Process

S.	Branch/	Number of	Subject	Status
No	Course	Experiments		
1	ME	2	HMT Lab (RME552)	Developed in e-Bootathon03
2	Dharmaay	1	Human Anatomy and	Under Development in
2 Pharmacy	1	Physiology Lab (BP107P)	e-Bootathon04	
2	ECE	1	Communication Engg, Lab	Under Development in
3 ECE	1	(KEC451)	e-Bootathon04	
4	ME	1	HMT Lab (RME552)	Under Development in
4 IVIE		1		e-Bootathon04

Detail of Targets Achieved

S. No	Branch/ Course	Name of Experiments	Subject	Beta Hosted Link
1		Design and Analysis of Insertion Sort Algorithm		http://ebootathon.com/labs/beta/csit/ DAA/exp1/
2		Design and Analysis of Quick Sort Algorithm		http://ebootathon.com/labs/beta/csit/ DAA/exp2/
3		Design and Analysis of Counting Sort Algorithm		http://ebootathon.com/labs/beta/csit/ DAA/exp3/
4		Design and Analysis of Improvised Bubble Sort Algorithm		http://ebootathon.com/labs/beta/csit/ DAA/exp4/
5	MCA	Design and Analysis of Improvised Bubble Sort Algorithm	DAA (RCA352)	http://ebootathon.com/labs/beta/csit/ DAA/exp5/
6	Bubble Sor Design and Algorithm. Design-and	Design and Analysis of Improvised Bubble Sort Algorithm		http://ebootathon.com/labs/beta/csit/ DAA/exp6/
7		Design and Analysis of Merge Sort Algorithm.		http://ebootathon.com/labs/beta/csit/ DAA/exp7/
8		Design-and-Analysis-of-Radix- Sort-Algorithm		http://ebootathon.com/labs/beta/csit/ DAA/exp8/
9		Design-and-Analysis-of-Binary- Search-Algorithm		http://ebootathon.com/labs/beta/csit/ DAA/exp9/

Phase-I (July-Dec 2020) Targets

• Inception of Virtual Lab Club at KIET Group of Institutions Delhi-NCR-Ghaziabad 15-Sep-2020 • 4 round selection of student member from all engineering departments • Round 1: Coding/ Programming in HTML, CSS and JavaScript • Round 2: Aptitude & reasoning test • Round 3: Algorithms development test • Round 4: Personal interview • Commencement of club activities (Phase 1) • Development of 8 Experiments (ME, EC, EN, MCA) • Preparation of laboratory manual and other resources 20-Sept-2020 • Coding of static pages and dynamic pages • Daily monitoring of the progress Weekly assessment • Demonstration and testing by other faculty members of the department • Feedback to be incorporated 15-Dec-2020 • Completion of Phase 1: Expected Outcomes • Communication with authorized regualtory body for Hosting of Developed Virtual labs

31-Dec-2020

Phase-II (Jan-June 2021) Targets

• Initiation of activities to develop 1 lab from electrical engineering department 1-Jan-2021 • Commencement of club activities (Phase II) • Development of 8 Experiments (CSE, IT, CE, Pharmacy) • Preparation of laboratory manual and other resources • Coding of static pages and dynamic pages 15-Jan-2021 • Daily monitoring of the progress Weekly assessment • Completion of Phase II: Expected Outcomes • Demonstration and testing by other faculty members of the department • Feedback from participant will be incorporated 15-June-2021 • Completion of Phase II: Expected Outcomes • Communication with authorized regualtory body for Hosting of Developed Virtual labs 30-June-2021

Ref/ Dir/ 16/ 2020 Date: 3rd Sep'20

OFFICE ORDER: 16/2020 Revision – Scholarship/Incentive Scheme (Students)

1. Institute gives recognition to all its students who excel in studies. In view of growing competition & to augment the competitive spirit among students in terms of attaining a new level (academic %) it is decided to revise the policy w.e.f. Academic Year 2019-20 as per the following details: -

A. Merit based Scholarship for Course / Branch Toppers

1st Position: Rs. 12000/-2nd Position: Rs. 6000/-

Toppers of the class will be judged on the basis of the **result of both semesters** (without carryover/clear pass in first attempt) and this incentive will be awarded for the following year.

B. Scheme to encourage students to excel in University Examination

Students of **B.Tech** & **B.Pharm 1**st to 3rd year, securing 85% (*aggregate marks including both semesters*) will be awarded **Rs. 500/-** and for **each** % **marks above 85%**, will be given **Rs. 200/- extra** in addition to **Rs. 500/-** (e.g. Student who secures 90% will be in awarded Rs.1500/-).

Students of MCA 1st & 2nd year and MBA 1st year securing 80% (*aggregate marks including both semesters*) will be awarded Rs. 500/- and for each % marks above 80%, will be given Rs. 200/- extra in addition to Rs. 500/- (e.g. Student who secures 85% will be in awarded Rs.1500/-).

However, Branch Toppers at para 1 A will not be eligible to get the benefit under this clause.

2. In addition, a scheme to encourage undergraduate programme students with highest improvement in academic result in comparison to previous year examination is hereby introduced as per following details:-

A. For B.Tech. 1st Year Students:

(i) Students admitted with 50% and above PCM at 10+2 level: Top two Students from each branch securing highest improvement % in First year result in comparison to PCM% at 10+2 level will get incentive as below:

1st highest improvement in % : Rs. 5000/-2nd highest improvement in % : Rs. 3000/-

KIET Page 1

(ii) Students admitted with less than 50% PCM at 10+2 level: Top three Students securing highest improvement % of First year result in comparison PCM% at 10+2 level will get incentive as below:

1st highest improvement in % : Rs. 5000/-2nd highest improvement in % : Rs. 3000/-3rd highest improvement in % : Rs. 2000/-

B. For B.Tech. 2nd & 3rd Year Students:

Top two Students securing highest improvement % in 2^{nd} year/ 3^{rd} year result in comparison 1^{st} year / 2^{nd} year result will get incentive as below:

1st highest improvement in % : Rs. 3000/-2nd highest improvement in % : Rs. 3000/-

C. For B. Pharm 1st Year Students:

Top two Students securing highest improvement % in First year result in comparison to PCB / PCM % at 10+2 level will get incentive as below:

1st highest improvement in % : Rs. 3000/-2nd highest improvement in % : Rs. 3000/-

D. For B. Pharm 2nd & 3rd Year Students:

Top two Students securing highest improvement % in 2^{nd} year/ 3^{rd} year result in comparison to 1^{st} year / 2^{nd} year result will get incentive as below:

1st highest improvement in % : Rs. 3000/-2nd highest improvement in % : Rs. 3000/-

- 3. The above scheme is applicable w.e.f Academic Year 2019-20.
- 4. With this, Circular dated '16th Mar'15 'Incentive Scheme -Students' stands superseded.

All the students are advised to do well in studies and avail this opportunity.

Dr. (Col) A Garg **Director** 3rd Sep'20

Distribution:

Joint Director/ Deans/ Principal-KSOP/ HoDs (CSE/IT/EC/EN/EI/CE/ME/AS/MCA/MBA/HS/CS/CSIT), GM-TBI & Dean IEC, Head-CRPC, Head-CAM, Head-AEC, Head-IRCDC, Head-IC, Addl. Head-IIPC, Chairperson-ICC, Head-IT Operations, Manager-IA, Head-HR, Registrar, Admin Officer, Accts Officer, Librarian, Purchase Officer, KIETians

Copy to:

All Students

KIET Page 1

KIET Page 1







An ISO-9001: 2008 Certified Institute

Office of the Research Council

Policy for KIET Research Faculty Members



Dr. Sanjay Sharma
Chairman, Research Council

Approved By

Dr. (Col) A Garg

Director







An ISO-9001: 2008 Certified Institute

Office of the Research Council

June 4, 2019

Note

We are pleased to inform that the below mentioned faculty members have been identified and re-designated as Faculty Research, based upon the Policy for Research faculty in KIET dated 27.02.2019 for Academic Session 2019-20.

HoDs are requested to re-designate them in their respective department as (Assistant Professor-Research) and (Associate Professor-Research) and also to allocate the faculty load in accordance with the policy.

Further, HoDs are also advised to make Research Groups in their respective departments for focused research in some identified areas. Also, these identified faculty members (Research) in respective departments may be used as **Coordinators Respective Research Groups.**

The said re-designation is for the Academic Session 2019-20. This shall be reviewed in May 2020, based upon the performance of Research Faculty Members across the Institute.

HR is requested to re-designate the concerned faculty members accordingly in their records.

To help Faculty speed-up their research, Central Lab shall remain open 24x7.

Flexible timings for Research Faculty can also be followed and additional slots may be allowed by Director.

Director

Chairman, RC







An ISO-9001: 2008 Certified Institute

The Expectations from Research Faculty are as follows:

- 1. At least 1 Publication in SCI / 2 publications in Scopus in an academic year.
- 2. At least 2 Research Projects should be applied to any reputed Govt. funding agencies in an academic year.
- 3. At least should publish 2 Research papers / 2 Case Study Papers (MBA) with KIET student's in peer reviewed SCOPUS journals.
- 4. To go for at least 1 collaborative research with other academic institutions/ industry having good reputation in research in terms of publication, patents, Ph.D. Guidance or other remarkable aspects in academic year.
- 5. To attend and present his/her 2 papers in reputed conferences with proceedings to be published in Scopus /IEEE indexed/Indian Pharmaceutical Conference (IPC), Indian Pharmacopoeial Conference, IPA, APTI, ISTE, IPGA, IDMA and IPS.
- 6. Establishing Centre of Excellence/Research Lab based upon the thrust area of department and outside world research work carried out / undertaken.
- 7. To submit Progress report to research Council by last day of every month through mail.

The Privilege to be given to Research Faculty are as follows:

- 1. Faculty should be given only one theory subject in 1 section only (5 Hrs.) along with 3 section laboratories (6 Hrs.). Also in time-table one day shall be assigned without any academic load to carry out research work.
- 2. Faculty should be given minimum administrative responsibility in department /college for further enhancement of Research.
- 3. Faculty should be given special 1-week leave/ leave of one day or more with total of 7 days for collaboration during Lean periods in Winter / Summer in an academic year or during the day in which no academic load is assigned in time table.

Jumar







An ISO-9001: 2008 Certified Institute

- 3. Faculty should be given special 1-week leave/ leave of one day or more with total of 7 days for collaboration during Lean periods in Winter / Summer in an academic year or during the day in which no academic load is assigned in time table.
- 4. Depending on the quality of research and no. of Students involved in Group Research activities, he/ she may be specially rewarded by Institution, especially to promote the expansion of Research Culture in KIET.
- 5. High configuration laptops with 1 TB Hard disk, 15 GB RAM and I7 machine shall be provided to all Research faculty members.
- 6. Rs. 10,000/- per year shall be reimbursed to research faculty members for the expenses of any chemicals or any equipment / product required in Research.
- 7. Maximum of Rs. 20,000/-(TA+ Registration) shall be reimbursed to Research Faculty for presenting / publishing 02 Research papers in any International reputed conferences.

<u>Identified Research Faculty (Assistant Professor-Research and Associate Professor-Research)</u> are as follows:

Sr. No.	Title	Name	Emp. Code	Designation	Course & Dept.
1	Mr.	Chirag Arora	11833	Assistant Professor (Research)	EI
2	Dr.	Sumitra Sharma	20874	Assistant Professor (Research)	ME
3	Dr.	Dhananjay Pradhan	20942	Assistant Professor (Research)	ME
4	Dr.	Sandeep Chhabra	3686	Associate Professor (Research)	ME
5	Dr.	Anurag Gupta	13322	Associate Professor (Research)	ME
6	Dr.	Shashank Mohan	20870	Associate Professor (Research)	ME

Juman _

★ KIET School of Engg & Technology ★ KIET School of Management ★ KIET School of Computer Application

KIET School of Pharmacy







An ISO-9001: 2008 Certified Institute

7	Mr.	Ajeet Kumar Singh	20899	Assistant Professor (Research)	EN
8	Dr.	Brijesh Singh	20757	Associate Professor (Research)	EN
9	Dr.	Kirti Pal	20889	Associate Professor (Research)	EN
10	Mr.	Rahat Ullah Khan	5985	Assistant Professor (Research)	EN
11	Dr.	Vaishali Manikrao Patil	20817	Associate Professor (Research)	KSOP
12	Dr.	Abhishek Kumar	20904	Assistant Professor (Research)	KSOP
13	Dr.	Kunal Bisht	20918	Assistant Professor (Research)	CIVIL
14	Dr.	Saif Ahmad Khan	16970	Assistant Professor (Research)	CIVIL
15	Dr.	Parvin Kumar	12058	Assistant Professor (Research)	ECE
16	Ms.	Tanvi Agrawal	20815	Assistant Professor (Research)	ECE
17	Dr.	Pravesh Singh	7074	Associate Professor (Research)	ECE
18	Dr.	Ruchita Gautam	12019	Associate Professor (Research)	ECE
19	Dr.	Nitin Girdharwal	6066	Assistant Professor (Research)	MBA
20	Mr.	Amit Kumar Arora	11846	Assistant Professor (Research)	MBA
21	Mr.	Dhirendra Kumar Sharma	8231	Assistant Professor (Research)	AS
22	Dr.	Priti Singh	11845	Assistant Professor (Research)	AS
23	Dr.	Kapil Kumar Sharma	13315	Assistant Professor (Research)	AS
24	Dr.	Sweta Shukla	13521	Assistant Professor (Research)	AS
25	Dr.	Rashmi Jain	20813	Assistant Professor (Research)	AS
26	Dr.	Arun Kumar Tripathi	3887	Associate Professor (Research)	MCA
27	Ms.	Neelam Rawat	6122	Associate Professor (Research)	MCA
28	Dr.	Sanjeev Kumar	6105	Associate Professor (Research)	CSE
29	Dr.	Ankur Singh Bist	18638	Assistant Professor (Research)	CSE

Luman

★ KIET School of Engg & Technology ★ **KIET School of Management** ★ **KIET School of Computer Application**

KIET School of Pharmacy







An ISO-9001: 2008 Certified Institute

30	Ms.	Parita Jain	12075	Assistant Professor (Research)	CSE
31	Mr.	Manish Bhardwaj	20906	Assistant Professor (Research)	CSE
32	Mr.	Awadesh kr. Srivastava	12018	Assistant Professor (Research)	IT
33	Mr.	Mohit Agarwal	20871	Assistant Professor (Research)	IT
34	Mr.	Bhoopendra Kumar	11896	Associate Professor (Research)	IT

Juman Chairman, RC

Director