

KIET SCHOOL OF PHARMACY

Minutes of Meeting held on 15th July 2025 in KSOP Department

Agenda: Discussion and approval of CO statements and CO-PO mapping, target benchmarks, and other academic aspects

Time: 12.30 P.M., Offline mode

Venue: Principal Conclave (1st floor, KSOP)

Chair: Dr. K. Nagesh (Principal-KSOP)

Members Present:

1. Dr. N.G. Raghavendra Rao
2. Dr. Daksh Bhatia
3. Dr. Roma Ghai
4. Dr. Shardendu Kumar Mishra
5. Dr. Richa Goel
6. Dr. Snigdha Bhardwaj

Topics Discussed:

1. Incorporation of Soft Skills Training

The members discussed the introduction of soft skills training using WeXL software for 3rd year B. Pharm students to enhance their employability and improve placement opportunities.

2. CO Attainment and Benchmark Adjustment

The members noted that low CO attainment was observed in a few subjects during the previous two sessions. To address this, the target benchmarks were scaled to the average of the last three years' result marks for the current session.

The concerned subject in-charges should also be advised to take additional efforts for weak students to achieve the desired CO attainment.

3. Continuation of Value-added Courses

The AI Tools and Corporate Quality Skills course shall continue for 7th semester (Session 2025-26) as per the existing curriculum.

The Emerging Trends in Pharmacy course shall continue for 1st semester (Session 2025-26) as earlier, considering its relevance and importance.

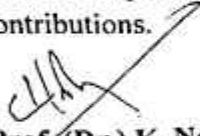
4. Approval of CO Statements and CO-PO Mapping

The members reviewed and approved the Course Outcomes (CO) statements and CO-PO mappings for B. Pharm: 1st, 3rd, 5th, and 7th semesters & M. Pharm: 1st semester

A revision was made in BP503T (Pharmacology-II), specifically in CO2 statement.
The mapping of the Department Mission with PEOs was also performed in the meeting

The members decided that M. Pharm classes for the session 2025-26 shall commence from 8th September 2025.

The meeting concluded with a note of thanks to all members for their valuable inputs and contributions.


Prof. (Dr.) K. Nagarajan
(Principal)



Comparative External result analysis last three years
B.Pharm. (Odd 2025-26)

B. Pharm. I year

	22-23	23-24	24-25	Proposed External Target Benchmark (Average of 3 years)	Proposed Internal Target Benchmark (same as 2024-25 Odd)
BP101T	63.04	63.06	72.38	66	60
BP102T	57.37	58.55	75.24	64	56
BP103T	56.32	58.44	75.24	63	60
BP104T	56.83	55.32	67.31	60	58
BP105T	NA	NA	NA	NA	60
BP106RMT	NA	NA	NA	NA	55
BP106RBT	NA	NA	NA	NA	54
BP107P	70	70	70	70	70
BP108P	70	70	70	70	70
BP109P	70	70	70	70	70
BP110P	70	70	70	70	70
BP111RBP	NA	NA	NA	NA	70
BP112P	NA	NA	NA	NA	70

B. Pharm II year

	22-23	23-24	24-25	Proposed External Target Benchmark (Average of 3 years)	Proposed Internal Target Benchmark (same as 2024-25 Odd)
BP301T	53.93	54.21	55.87	55	60
BP302T	58	60.4	58.95	59	56
BP303T	58.55	56.82	59.9	58	57
BP304T	50.85	62.12	55.76	56	59
KVE301	75.43	60.15	50.6	62	60
BP305P	70	70	70	70	70
BP306P	70	70	70	70	70
BP307P	70	70	70	70	70
BP308P	70	70	70	70	70

III year

	22-23	23-24	24-25	Proposed External Target Benchmark (Average of 3 years)	Proposed Internal Target Benchmark (same as 2024-25 Odd)
BP501T	49.55	51.37	57.08	53	57
BP502T	53.94	51.87	62.57	56	54
BP503T	53.56	55.67	54.19	54	57
BP504T	49.71	52.07	62.82	55	54
BP505T	55.4	52.85	58.63	56	56
BP506P	70	70	70	70	70
BP507P	70	70	70	70	70
BP508P	70	70	70	70	70
BP509P	70	70	70	70	70

IV year

	22-23	23-24	24-25	Proposed External Target Benchmark (Average of 3 years)	Proposed Internal Target Benchmark (same as 2024-25 Odd)
BP701T	56.34	54.96	58.88	57	64
BP702T	57.85	57.99	55.35	57	56
BP703T	59.14	49.38	58.05	56	57
BP704T	57.72	56.96	58.48	58	58
BP705P	70	70	70	70	70
BP706PS	70	70	70	70	70
BP707P	70	70	70	70	70

Sigs. of BoB

Signature of HoD

KIET School of Pharmacy

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: I
Course name: HAP-I	Course Code: BP101T	Faculty: Dr. Praveen K. Dixit

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Understand the basics of human body parts including cell, tissue and various types of cellular communication pathways.	Understand	Factual & Conceptual
CO2	Illustrate the structural and functional characteristics of bones and muscles of the human body.	Apply	Factual & Conceptual
CO3	Compare the composition and functions of Blood and Lymph.	Analyze	Factual & Conceptual
CO4	Illustrate the anatomical and physiological aspects of peripheral nervous system and sense organs.	Apply	Factual & Conceptual
CO5	Illustrate the structural and functional aspects of heart and ECG in correlation with related disorders.	Apply	Factual & Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix

HAP-I (BP101T)

Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	-	-	-	-	-	1	1	1	-	2
CO-2	3	-	-	-	-	-	1	1	1	-	2
CO-3	3	-	-	-	-	-	1	1	1	-	2
CO-4	3	-	-	-	-	-	1	1	1	-	2
CO-5	3	-	-	-	-	-	1	1	1	-	2
PO Target	3	-	-	-	-	-	1	1	1	-	2

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4
- The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory part and optional parts are Condition and Criteria.

knowledge

Faculty: Dr. Abhay Bhardwaj

Phase Note (Reference: OBE Guidelines wef. Session 2023-24)

- ❖ The courses having credits less than 3 should have 4 number of COs.
- ❖ The courses having credits 3 to 6 should have 5 number of Cos. The mandatory parts are Action & Knowledge and optional parts are Condition and
- ❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts.

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Criteria

KIET School of Pharmacy

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: I
Course name: Pharmaceutics-I	Course Code: BP103T	Faculty: Ms. Sakshi Garg

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Discuss the rational and concept behind the pharmacy profession, definition and types of dosage forms, pharmacopoeia, prescription & Posology.	Understand	Factual & Conceptual
CO2	Apply different types of calculations involved in the pharmaceuticals, pharmaceutical powders and liquid dosage forms.	Apply	Conceptual & Procedural
CO3	Analyze the different monophasic liquid dosage forms and biphasic liquid dosage forms like suspension and emulsions.	Analyze	Conceptual & Procedural
CO4	Identify the formulation requirements of suppositories and different types of incompatibilities.	Analyze	Conceptual & Procedural
CO5	Illustrate the concept and preparation of semisolid dosage forms.	Analyze	Conceptual & Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Pharmaceutics-I (BP103T)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	1	1	-	1	1	1	1	1	-	2
CO-2	3	1	2	-	-	1	1	-	-	-	2
CO-3	3	1	1	2	-	1	1	-	-	-	2
CO-4	3	1	2	-	-	1	1	-	-	-	2
CO-5	3	1	1	2	-	1	1	-	-	-	2
PO Target	3	1	1.4	2	1	1	1	1	1	-	2

Signature of Course Coordinator

Signature of Addtl. HoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

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KIET School of Pharmacy

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: I
Course name: Inorganic Pharm. Chemistry	Course Code: BP104T	Faculty: Ms. Shikha Kaushik

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
	After completion of the course, the student will be able to		
CO1	Understand the sources & types of impurities and different limit tests for inorganic compounds in pharmaceuticals.	Understand	Factual & Conceptual
CO2	Explore buffers, electrolytes in replacement therapy & dental products and calculate isotonicity.	Apply	Conceptual & Procedural
CO3	Illustrate the various inorganic gastrointestinal agents & antimicrobials.	Apply	Conceptual
CO4	Acquire knowledge of expectorants, emetics, hematinic, & antidotes used in inorganic pharmaceuticals.	Apply	Conceptual
CO5	Explore the radiopharmaceuticals, their handling & precautions.	Analyze	Conceptual & Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Inorganic Pharm. Chemistry (BP104T)										
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10 PO-11
CO-1	3	-	3	-	-	-	-	-	3	3
CO-2	3	-	3	-	-	-	-	-	3	2
CO-3	3	-	3	-	-	-	-	-	3	1
CO-4	3	-	3	-	-	-	-	-	3	-
CO-5	3	2	3	2	-	-	-	-	3	3
PO Target	3	2	3	2	-	-	-	-	3	2.25

Signature

Signature of Course Coordinator

Signature

Signature of Adtl. HoD

Signature

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- ❖ The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- ❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Guidance.

KIET School of Pharmacy

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: I
Course name: Communication Skills	Course Code: BP105T	Faculty: Dr. Babita Tyagi

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Understand the communication strategies and principles along with the various perspectives at workplace.	Understand	Conceptual
CO2	Interpret the verbal & Non-verbal communication skills including the cognition of various communication styles.	Understand	Conceptual
CO3	Attain self-confidence with improved command over listening, and writing skills.	Apply	Conceptual
CO4	Acquire communication tactics for diverse day-to-day events and situation with cohesive arguments to reach a consensus.	Apply	Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Communication Skills (BP105T)												
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	
CO-1	-	-	-	-	1	-	-	3	1	1	2	
CO-2	-	-	-	-	-	-	-	3	1	1	2	
CO-3	-	-	-	-	2	-	-	3	1	1	2	
CO-4	-	-	-	-	3	-	-	3	1	1	2	
PO Target	-	-	-	-	2	-	-	3	1	1	2	

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Signature of Course Coordinator

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Signature of Addl. HOD

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Signature of HoD

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KIET School of Pharmacy

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: I
Course name: Remedial Biology	Course Code: BP106RBT	Faculty: Ms. Sheena Mehta

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
	After completion of the course, the student will be able to		
CO1	Describe the basic components of anatomy & morphology of plants	Understand	Factual, Conceptual
CO2	Explain the concept of Body fluids, circulatory system, digestive system and respiration system.	Understand	Factual, Conceptual
CO3	State the basic concepts of excretory system, human reproduction system, neural, chemical control and coordination	Remember	Factual, Conceptual
CO4	Summarize the basic concept of plant nutrition and nitrogen metabolism with the process of photosynthesis	Understand	Factual, Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Remedial Biology (BP106RBT)

Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	1	2	1	2	2	1	2	1	1	3
CO-2	3	-	3	2	1	2	1	1	3	2	3
CO-3	3	-	3	2	1	2	1	1	3	2	3
CO-4	3	-	2	1	2	2	1	2	1	1	3
PO Target	3	1	2.5	1.5	1.5	2	1	1.5	2	1.5	3

Signature of Course Coordinator

Signature of Addl. HoB

Signature of HoD

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Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: I
Course name: Human Anatomy & Physiology-I Practical	Course Code: BP107P	Faculty: Ms. Priya Bansal

Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)
	After completion of the course, the student will be able to	
CO1	Illustrate the microscopical characteristics of different types of cells and tissues in human body under the light of microscopic techniques.	Analyze
CO2	Illustrate identify of various types of bones and joints under the background of their anatomical correlation	Analyze
CO3	Assess the methods and techniques to measure the various components of blood.	Evaluate
CO4	Demonstrate the process of recording of blood pressure, pulse rate and heart rate.	Apply
		Conceptual & Procedural
		Conceptual & Procedural
		Conceptual & Procedural
		Conceptual & Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix											
Human Anatomy & Physiology-I Practical (BP107P)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	-	-	2	-	-	-	1	2	-	2
CO-2	3	-	-	2	-	-	-	1	2	-	2
CO-3	3	-	1	2	-	-	-	1	2	-	3
CO-4	3	-	-	2	-	-	-	1	2	-	3
PO Target	3	-	1	2	-	-	-	1	2	-	2.5

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Signature of Course Coordinator

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Signature of Addl. HoD

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Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

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KIET School of Pharmacy

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: I
Course name: Pharm Analysis Practical	Course Code: BP108P	Faculty: Ms. Pallavi Barik

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
CO1	Determine the qualitative and quantitative analysis of molecules in pharmaceuticals by volumetric analysis.	Apply	Conceptual & Procedural
CO2	Analyze the standardization of the given strength of molecules in pharmaceuticals.	Analyze	Conceptual & Procedural
CO3	Investigate the assay of given samples of pharmaceutical molecules.	Analyze	Conceptual & Procedural
CO4	Analyze the electroanalytical methods for determination of normality.	Analyze	Conceptual & Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Pharm Analysis Practical (BP108P)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	-	3	1	-	-	-	-	3	3	3
CO-2	3	-	3	1	-	-	-	-	3	2	3
CO-3	3	-	3	1	-	-	1	-	3	1	3
CO-4	3	-	3	1	-	-	-	-	3	-	3
PO Target	3	-	3	1	-	-	1	-	3	2	3

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Signature of Course Coordinator

[Signature]

Signature of Addl. HoD

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Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

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Program Name: B. Pharm	KIET School of Pharmacy	Semester: I
Course name: Pharmaceutics-I (Practical)	Academic Session: Odd 2025-26	Faculty: Ms. Sakshi Garg
	Course Code: BP109P	

Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)
After completion of the course, the student will be able to		
CO1	Demonstrate the preparation and dispensing of monophasic liquid dosage forms (syrups, elixirs, linctuses, gargles, mouthwashes and solutions).	Apply
CO2	Illustrate the preparation and dispensing of biphasic liquid dosage forms (suspensions and emulsions).	Apply
CO3	Illustrate the preparation and dispensing of pharmaceutical powders and granules.	Apply
CO4	Demonstrate the preparation and dispensing of suppositories and semisolid dosage forms such as ointments and gels.	Apply
		Knowledge Category (KC)
		Conceptual and Procedural
		Conceptual and Procedural
		Conceptual and Procedural
		Conceptual and Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix											
Pharmaceutics-I Practical (BP109P)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	1	1	2	-	2	1	-	-	-	2
CO-2	3	1	1	2	-	2	1	-	-	-	2
CO-3	3	1	1	2	-	2	1	-	-	-	2
CO-4	3	1	2	2	-	2	1	-	-	-	2
PO Target	3	1	1.25	2	-	2	1	-	-	-	2

Signature of Course Coordinator

Signature of Adm. Hqd

Signature of HoD

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KIET School of Pharmacy

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: I
Course name: Pharmaceutical Inorganic Chemistry Practical	Course Code: BP110P	Faculty: Dr. Lalit Mohan Nainwal

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Examine the sources of impurities with limit test for inorganic molecules and pharmaceuticals	Apply	Conceptual & Procedural
CO2	Demonstrate the identification test and test for purity of inorganic molecules in pharmaceuticals	Apply	Conceptual & Procedural
CO3	Demonstrate on the preparation of inorganic pharmaceuticals and their assays	Apply	Conceptual & Procedural
CO4	Examine the test for purity of inorganic molecules in pharmaceuticals.	Apply	Conceptual & Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Pharmaceutical Inorganic Chemistry Practical (BP110P)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	1	3	1	-	-	1	1	3	3	3
CO-2	3	1	3	1	-	-	1	1	3	2	3
CO-3	3	1	3	1	-	-	1	1	3	1	3
CO-4	3	1	3	1	-	-	1	1	3	1	3
PO Target	3	1	3	1	-	-	1	1	3	2	3

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Signature of Course Coordinator

[Signature]

Signature of Addl. HoD

[Signature]

Signature of HoD

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Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: I
Course name: Communication Skills Practical	Course Code: BP111P	Faculty: Dr. Preeti Chitkara

Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)
CO1	Attain the cognizance to exhibit interest and participate in the synergy & team work with the help of good interpersonal skills.	Conceptual
CO2	Apply the pronunciation etiquette to build the self-confidence with improved command over the mechanics of English language.	Procedural
CO3	Attain both formal effective verbal and non-verbal communication skills to make information more accessible to the audience.	Procedural
CO4	Design well-structured written content, including emails and professional documents, by implementing advanced writing skills and etiquette for formal communication.	Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix											
Communication Skills Practical (BP111P)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	-	-	-	-	-	-	-	3	-	-	1
CO-2	-	-	-	-	-	-	-	3	-	-	1
CO-3	-	-	-	-	3	-	-	3	-	-	1
CO-4	-	-	-	-	3	-	-	3	-	-	1
PO Target	-	-	-	-	3	-	-	3	-	-	1

B. Prasad

Signature of Course Coordinator

Preeti Chitkara

Signature of Addl. HoD

Preeti Chitkara

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

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- The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge

Program Name: B. Pharm

Course name: Emerging Technologies in Pharmacy	Academic Session: Odd 2025-26	Semester: I
	Course Code: BPPI 113	Faculty: Dr. Shwetakshi Sharma

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Understand the basic concepts and application of Artificial intelligence in Pharmacy.	Understand	Factual & Conceptual
CO2	Understand various data science tools to address healthcare needs.	Understand	Factual & Conceptual
CO3	Understand the concepts of cloud computing, key technologies, and applications of cloud computing in Pharmacy.	Understand	Factual & Conceptual
CO4	Understand the basic concepts and applications of IoT and 3D printing in Pharmacy.	Understand	Factual & Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Course Code	Course Name (Course Code)										
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	2	-	1	-	-	-	1	-	-	-	2
CO-2	2	-	2	1	-	-	1	-	-	-	2
CO-3	2	-	1	-	-	-	1	-	-	-	2
CO-4	2	-	2	-	-	-	1	-	-	-	2
PO Target	2	-	1.5	1	-	-	1	-	-	-	2

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

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KIET School of Pharmacy

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: I
Course name: Remedial Biology (Practical)	Course Code: BP112P	Faculty: Ms. Sheena Mehta

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Understand the structure of cell and its inclusions.	Understand	Conceptual & Procedural
CO2	Demonstrate microscope, section cutting, mounting and staining of slides.	Apply	Procedural
CO3	Contrast cell, stem, root, leaf, seed, fruit, flower and their modifications	Understand	Conceptual & Procedural
CO4	Determine the blood group, blood pressure and tidal volume in human.	Apply	Conceptual & Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Remedial Biology (Practical) (BP112P)

Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	-	-	2	-	-	1	-	-	-	3
CO-2	3	-	-	2	-	-	1	-	-	-	3
CO-3	3	-	3	2	-	-	1	-	-	-	3
CO-4	3	-	-	2	-	-	1	1	1	-	-
PO Target	3	-	3	2	-	-	1	1	1	-	3

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Application and Evaluation.

KIET School of Pharmacy

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: III
Course name: Pharmaceutical Organic Chemistry-II	Course Code: BP301T	Faculty: Shipra Singhal

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Illustrate the structure, properties, chemical reactions and uses of benzene and its derivatives.	Apply	Factual & Conceptual
CO2	Examine the structure, properties, chemical reactions and uses of phenols, aromatic amines and aromatic acids.	Apply	Factual & Conceptual
CO3	Determine the structure, chemical reactions and analytical constants and significance of oil and fats.	Apply	Factual & Conceptual
CO4	Illustrate the structure, synthesis, chemical reactions and medicinal uses of polynuclear hydrocarbons.	Apply	Factual & Conceptual
CO5	Illustrate the structure, properties, chemical reactions and uses of cycloalkanes.	Apply	Factual & Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Pharmaceutical Organic Chemistry-II (BP301T)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	-	2	-	-	2	1	-	2	1	1
CO-2	3	-	2	-	-	2	1	-	2	1	1
CO-3	3	-	2	-	-	2	1	-	2	1	1
CO-4	3	-	2	-	-	2	1	-	2	1	1
CO-5	3	-	2	-	-	2	1	-	2	1	1
PO Target	3	-	2	-	-	2	1	-	2	1	1

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of Cos.
- The statement of a CO must be formed considering a proper structure having mandatory and optional parts are Action & Knowledge

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: III
Course name: Physical Pharmaceutics-I	Course Code: BP302T	Faculty: Mr. Debaprasad Ghosh

Tagging COs with BLs & KCs			Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
After completion of the course, the student will be able to				
CO1	Illustrate the parameters related to solubility of the drugs.		Apply	Factual & Conceptual
CO2	Analyze states of matter, properties, and physicochemical properties of drug molecules.		Analyze	Factual & Conceptual
CO3	Explore about surface and interfacial phenomenon.		Apply	Factual & Conceptual
CO4	Illustrate the fundamental principles behind complexation and protein binding with proper examples.		Analyze	Factual & Conceptual
CO5	Illustrate the concepts of pH, buffers, and isotonic solutions along with their measurements and/or adjustments.		Analyze	Conceptual & Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix											
Physical Pharmaceutics-I (BP302T)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	1	2	1	-	-	-	1	1	-	2
CO-2	3	1	2	1	-	-	-	1	1	-	2
CO-3	3	1	2	2	-	-	-	1	1	-	2
CO-4	3	1	2	2	-	-	-	1	1	-	2
CO-5	3	1	2	1	-	-	3	1	1	-	2
PO Target	3	1	2	1.4	-	-	3	1	1	-	2

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)
 ❖ The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
 ❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge

Program Name: B. Pharm	Semester: III
Course name: Pharmaceutical Microbiology	Faculty: Mr. Debaprasad Ghosh
Academic Session: Odd 2025-26	
Course Code: BP303T	

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
CO1	After completion of the course, the student will be able to Illustrate the scope and applications of pharmaceutical biotechnology	Understand	Factual & Conceptual
CO2	Analyze various staining and sterilization techniques used in pharmaceutical biotechnology	Analyze	Conceptual & Procedural
CO3	Outline evaluation methods of antiseptics, disinfectants, and sterility testing as per different pharmacopeias.	Apply	Factual & Conceptual
CO4	Explain the significance of the clean area, methods, and standardization of microbial assay of biological products.	Apply	Factual & Conceptual
CO5	Analyze microbial spoilage, preservation of pharmaceutical products & processes, and application of tissue cell culture in pharmaceutical research.	Analyze	Factual & Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Course Code	Pharmaceutical Microbiology (BP303T)										
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	-	-	-	-	-	-	-	-	-	1
CO-2	3	2	1	2	-	-	-	-	-	-	1
CO-3	3	2	1	-	-	-	-	-	-	1	2
CO-4	3	2	1	1	1	-	-	-	-	1	2
CO-5	3	2	1	-	1	-	-	-	-	1	1.6
PO Target	3	2	1	1.5	1	-	-	-	-	1	1.6

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- ❖ The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- ❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criterion.

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: III
Course name: Pharmaceutical Engineering-Theory	Course Code: BP304T	Faculty: Mr. Sanjeev Chanhani

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
CO1	Understand the basic concepts related to fluid flow and equipment's used in size reduction and size separation in pharmaceutical industry	Understand	Factual, Conceptual.
CO2	Explain process of heat transfer and various equipment's used in evaporation and distillation	Analyze	Conceptual & Procedural
CO3	Examine various processes and equipment used in drying and mixing.	Apply	Conceptual & Procedural
CO4	Apply the concept of filtration and centrifugation for processing of pharmaceutical products.	Apply	Conceptual & Procedural
CO5	Explore the different material for pharmaceutical plant construction, including corrosion and its prevention	Analyze	Factual, Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix										
Pharmaceutical Engineering-Theory (BP304T)										
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO-1	3	1	1	-	-	1	1	-	-	1
CO-2	3	1	1	-	-	1	-	-	-	1
CO-3	3	1	1	1	-	1	-	-	-	1
CO-4	3	1	1	1	-	1	-	-	-	1
CO-5	3	1	1	1	-	1	1	-	-	1
PO Target	3	1	1	1	-	1	1	-	-	1

Signature of Course Coordinator

Signature of Addl. HOD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criteria.

KIET School of Pharmacy

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: III
Course name: Pharmaceutical Organic Chemistry-II	Course Code: BP305P	Faculty: Mr. Surya Prakash

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Apply laboratory techniques such as recrystallization and steam distillation for purification and isolation of chemical compounds.	Apply	Conceptual & Procedural
CO2	Determine acid value, saponification value, and iodine value of oils using standard analytical procedures.	Apply	Conceptual & Procedural
CO3	Synthesize a variety of organic compounds through acylation, halogenation, nitration, oxidation, hydrolysis, diazotization, and other named reactions.	Analyze	Conceptual & Procedural
CO4	Interpret experimental outcomes and practice safe handling of chemicals, while maintaining proper documentation and following good laboratory practices.	Apply	Conceptual & Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Pharmaceutical Organic Chemistry-II (BP305P)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO1	3	1	3	1	-	-	2	2	1	1	3
CO2	3	1	3	1	-	-	2	2	1	1	3
CO3	3	1	3	1	-	-	2	2	1	1	3
CO4	3	1	3	1	-	-	2	2	1	1	3
PO Target	3	1	3	1	-	-	2	2	1	1	3

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Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- ❖ The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- ❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: III
Course name: Physical Pharmaceutics-I (Practical)	Course Code: BP306P	Faculty: Ms. Megha Garg

Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)
CO1	Determine key physicochemical properties of drugs such as solubility, pKa, and partition coefficient using standard analytical methods.	Evaluate
CO2	Analyze binary systems and phase equilibria through techniques like the critical solution temperature (CST) method and surface tension determination.	Evaluate
CO3	Evaluate surfactant properties, including HLB number and critical micellar concentration (CMC), using saponification and experimental techniques.	Evaluate
CO4	Determine stability constants and donor-acceptor ratios of drug complexes using solubility and pH titration methods, and interpret adsorption isotherms using Freundlich and Langmuir models.	Evaluate
		Knowledge Category (KC)
		Conceptual, Procedural
		Conceptual, Procedural
		Conceptual, Procedural
		Conceptual, Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix										
Physical Pharmaceutics-I (Practical) (BP306P)										
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO1	3	2	2	2	-	1	-	-	-	-
CO2	3	2	2	2	-	1	-	-	-	-
CO3	3	2	2	2	-	1	-	-	-	-
CO4	3	2	2	2	-	1	-	-	-	-
PO Target	3	2	2	2	-	1	-	-	-	-

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Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- ❖ The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- ❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criteria

Program Name: B. Pharm	Semester: III
Course name: Pharmaceutical Microbiology	Faculty: Dr. Shwetakshi
Practical	Academic Session: Odd 2025-26
	Course Code: BP307P

Tagging COs with BLs & KCs		Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
CO No.				
	After completion of the course, the student will be able to			
CO1	Apply knowledge of microbiological equipment, sterilization of glassware and media preparation for experimental use.		Apply	Conceptual & Procedural
CO2	Perform subculturing, staining techniques, and isolation of pure microbial cultures using standard microbiological methods.		Analyze	Conceptual & Procedural
CO3	Apply microbiological assays, including antibiotic potency testing, sterility testing, and bacteriological analysis of water.		Apply	Conceptual & Procedural
CO4	Analyze microbial characteristics through motility tests, biochemical identification, and apply techniques for quality control in pharmaceutical microbiology.		Analyze	Conceptual & Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Pharmaceutical Microbiology Practical (BP307P)										
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10
CO1	3	3	2	2	1	-	-	1	1	-
CO2	3	3	2	3	2	-	-	1	1	-
CO3	3	3	1	3	2	-	-	1	1	-
CO4	3	3	1	3	2	-	-	1	1	-
PO Target	3	3	1.5	2.75	1.75	-	-	1	1	-

Signature of HoD

Signature of Addl. HoD

Signature of Course Coordinator

Signature of Course Coordinator

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criteria.

Program Name: B. Pharm	Semester: III
Course name: Pharmaceutical Engineering Practical	Faculty: Mr. Sanjeev Chauhan
Academic Session: Odd 2025-26	
Course Code: BP308P	

Tagging COs with BLs & KCs	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
CO1	Determine radiation constants, heat transfer coefficients, drying curves, moisture content, and humidity using appropriate experimental methods.	Apply	Conceptual, Procedural
CO2	Perform particle size analysis, size reduction experiments, and evaluate equipment efficiency using sieving techniques, ball mills, and blending studies.	Apply	Conceptual & Procedural
CO3	Analyze factors influencing filtration, evaporation, distillation, and crystallization kinetics in pharmaceutical processes.	Apply	Conceptual & Procedural
CO4	Understand the construction, working, and applications of pharmaceutical equipment such as tablet machines, fluidized bed coaters, mixers, and dryers.	Analyze	Conceptual & Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Course Code	Pharmaceutical Engineering Practical (BP308P)										
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO1	2	1	1	-	-	2	2	1	1	-	3
CO2	2	1	1	-	-	2	2	1	1	-	3
CO3	2	1	1	-	-	2	2	1	1	-	3
CO4	2	1	1	-	-	2	2	1	1	-	3
PO Target	2.00	1.00	1.00	-	-	2.00	2.00	1.00	1.00	-	3.00

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- ❖ The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- ❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge

KIET School of Pharmacy

Program Name: B. Pharm	Semester: III
Course name: Human Values & Professional Ethics	Academic Session: Odd 2025-26
	Course Code: BPH2 309
	Faculty: Dr. Deepthi Katiyar

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
	After completion of the course, the student will be able to		
CO1	Discuss the need, basic guidelines, content and process of Value Education under the light of "Universal Human Values"	Understand	Factual, Conceptual
CO2	Explore the concept of harmony in the Human being (Myself) being "I" and "body" as separate entity.	Apply	Factual, Conceptual
CO3	Ensure the concept "harmony" in the family and society keeping family as part of Undivided Society.	Analyze	Factual, Conceptual
CO4	Appraise harmony in the nature and existence imbibing the role of an individual in maintaining the harmony within nature and existence.	Evaluate	Factual, Conceptual
CO5	Interpret the holistic approach of harmony in relation with Professional Ethics.	Evaluate	Factual, Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Human Values & Professional Ethics (BPH2 309)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	-	-	2	-	3	1	3	-	1	-	2
CO-2	-	-	2	-	3	1	3	-	1	-	2
CO-3	-	-	2	-	3	2	3	-	2	-	2
CO-4	-	-	2	-	3	2	3	-	3	3	2
CO-5	-	-	2	-	3	2	3	-	3	3	2
PO Target	-	-	2	-	3	1.6	3	-	2	3	2

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- ❖ The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- ❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criteria.

Program Name: B. Pharm	Semester: V
Course name: Medicinal Chemistry-II	Academic Session: Odd 2025-26
	Course Code: BP501T
	Faculty: Mr. Surya Prakash

Tagging COs with BLs & KCs				
CO No.	Statement of Course Outcome		Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to				
CO1	Examine the classification, mechanism of action and SAR of Antihistaminic agents		Apply	Factual & Conceptual
CO2	Illustrate the classification, mechanism of action and SAR of Antineoplastic agents		Analyze	Factual & Conceptual
CO3	Customize the classification, mechanism of action and SAR of various categories of Cardiovascular agents		Apply	Factual & Conceptual
CO4	Explain the classification, mechanism of action and SAR of various categories of Endocrine system		Analyze	Factual & Conceptual
CO5	Determine the classification, mechanism of action and SAR of Anti-diabetic agents and local Anesthetics		Evaluate	Factual & Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix											
Medicinal Chemistry-II (BP501T)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	-	2	1	-	-	1	1	-	1	-
CO-2	3	-	2	1	-	-	1	1	2	1	-
CO-3	3	-	2	1	-	-	1	1	2	1	-
CO-4	3	-	2	1	-	-	1	1	2	1	-
CO-5	3	-	2	1	-	-	1	1	2	1	-
PO Target	3	-	2	1	-	-	1	1	2	1	-

Signature of Course Coordinator

Signature of Adm. InbD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- The courses having credits 3 to 6 should have 5 number of Cos. The courses having
- The statement of a CO must be formed considering a proper structure having mandatory and optional parts are Condition and Criteria.
- an 3 should have 4 number of COs.
- The mandatory parts are Action & Knowledge

Program Name: B. Pharm	Semester: V
Course name: Industrial Pharmacy I	Faculty: Dr. Anuj Pathak
Academic Session: Odd 2025-26	
Course Code: BP502T	

Tagging COs with BLs & KCs		Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
CO No.				
	After completion of the course, the student will be able to			
CO1	Understand	preformulation studies and the development of pharmaceutical products including solid, liquid, parenterals, and ophthalmic preparations.	Understand	Factual, Conceptual
CO2	Apply	preformulation and BCS considerations in the development of solid, liquid oral and parenteral dosage forms and its impact on stability of dosage forms	Apply	Factual, Conceptual
CO3	Prepare	drug products such as tablets, coated tablet, liquid oral, capsules, pellets, parenteral, ophthalmic products, cosmetics, aerosols, ophthalmic preparation	Apply	Factual, Conceptual, Procedural
CO4	Assess	the quality of prepared drug products such as tablets, coated tablet, liquid oral, capsules, pellets, parenteral, ophthalmic products, aerosols, and packaging material	Evaluate	Factual, Conceptual, Procedural
CO5	Investigate	various compression and processing problems related to manufacture of tablets, coated tablets, capsules	Analyze	Factual, Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix											
Industrial Pharmacy I (BP502T)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	2	-	-	-	-	1	-	-	-	-
CO-2	3	2	3	1	-	-	1	1	-	1	1
CO-3	3	2	3	-	1	-	1	1	-	-	1
CO-4	3	2	3	3	1	-	-	1	-	-	1
CO-5	3	2	3	-	-	-	-	1	-	1	1
PO Target	3	2	3	2	1	-	1	1	-	1	1

Signature of Course Coordinator: *[Signature]* Signature of Addl. HoD: *[Signature]* Signature of HoD: *[Signature]*

Please Note (Reference: OBE Guidelines wef. Session 2023-24)
❖ The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criteria.

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: V
Course Name: Pharmacology-II	Course Code: BP503T	Faculty: Dr. Abhishek Kumar

Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)
CO1	After completion of the course, the student will be able to	
CO1	Summarize the pharmacology of drugs used for management of cardiovascular disorders.	Understand
CO2	Elaborate the pharmacology of drugs of haemopoietic system acting against cardiovascular diseases.	Understand
CO3	Examine the pharmacological and physiological roles of autacoids and drugs acting on their receptors.	Apply
CO4	Explore the pharmacology of drugs acting on endocrine system.	Analyze
CO5	Illustrate the principles and the methods of bioassay of specific drugs.	Analyze
		Knowledge Category (KC)
		Factual & Conceptual
		Factual & Conceptual
		Factual & Conceptual
		Factual & Conceptual
		Factual & Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix											
Course Code	Course Name (Course Code)										
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	-	1	1	-	-	1	-	-	-	2
CO-2	3	-	1	1	-	-	-	-	-	-	2
CO-3	3	-	1	1	-	-	-	-	-	-	2
CO-4	3	-	1	1	-	-	-	-	-	-	2
CO-5	2	1	2	1	-	-	1	-	-	-	2
PO Target	2.80	1	1.2	1	-	-	1	-	-	-	2

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Signature of Course Coordinator

Signature of Addl. HoD

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Signature of HoD

Program Name: B. Pharm	Semester: V
Course name: Pharmacognosy and Phytochemistry	Faculty: Dr. Richa Goel
Academic Session: Odd 2025-26	
Course Code: BP504T	

Tagging COs with BLs & KCs	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
CO1	Understand the concepts of metabolic pathways in higher plants.	Understand	Factual & Conceptual
CO2	Acquire the knowledge of the chemistry, source, therapeutic uses and commercial applications of specific crude drugs.	Apply	Factual & Conceptual
CO3	Analyze the specified phytoconstituents utilizing the standardization of various physico-chemical parameters.	Analyze	Conceptual & Procedural
CO4	Understand the industrial applications of the mentioned phytoconstituents.	Understand	Factual & Conceptual
CO5	Compare various methods for extraction, isolation and purification of phytoconstituents.	Evaluate	Conceptual & Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Pharmacognosy and Phytochemistry (BP504T)

Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	-	-	3	-	-	-	-	-	2	-
CO-2	3	-	2	-	-	-	2	-	-	-	2
CO-3	3	-	2	3	-	-	-	-	-	2	2
CO-4	3	-	2	3	-	-	2	-	-	-	1
CO-5	3	1	2	3	-	-	-	-	-	-	1
PO Target	3	1	2	3	-	-	2	-	-	2	1.75

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Signature of Course Coordinator

Richa

Signature of Addl. HoD

Richa

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- ❖ The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- ❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criteria.

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: V
Course name: Pharmaceutical Jurisprudence	Course Code: BP505T	Faculty: Dr. Shwetakshi

Tagging COs with BLs & KCs		Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
CO No.				
		After completion of the course, the student will be able to		
CO1		Explore the rules and regulations defined under the Import and manufacturing of D&C Act 1940 and Rules 1945.	Apply	Factual & Conceptual
CO2		Acquire the knowledge of rules of various schedules, sale, labelling requirement and administrations of D&C Act 1940 and Rules 1945.	Apply	Factual & Conceptual
CO3		Illustrate the regulations of Pharmacy Act 1948, Medicinal and Toilet Preparations Act 1955 and NDPS Act 1985.	Analyze	Factual & Conceptual
CO4		Explain guidelines laid under the acts pertaining to prevention of cruelty to animals and national pricing authority.	Analyze	Factual & Conceptual
CO5		Determine the basics of pharmaceutical legislations, code of pharmaceutical ethics and other important acts like RTI, IPR, MTP.	Apply	Factual & Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix											
Pharmaceutical Jurisprudence (BP505T)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	2	3	-	-	-	3	-	3	3	3
CO-2	3	2	3	-	-	-	3	-	3	3	3
CO-3	3	-	2	-	-	2	3	-	3	-	3
CO-4	3	2	2	-	-	-	3	-	3	-	3
CO-5	3	-	2	-	-	2	3	-	3	3	3
PO Target	3	2	2.4	-	-	2	3	-	3	3	3

Signature of Course Coordinator *Shwetakshi* Signature of Addl. HOD *Shwetakshi* Signature of HoD *Shwetakshi*

Please Note (Reference: OBE Guidelines wef. Session 2023-24)
❖ The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criteria.

KIET School of Pharmacy

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: V
Course name: Industrial Pharmacy-I Practical	Course Code: BP506P	Faculty: Dr. Lakshmi

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
	After completion of the course, the student will be able to		
CO1	Determine various physicochemical parameters of drugs to perform preformulation studies.	Evaluate	Conceptual, Procedural
CO2	Prepare multiple dosage forms, including coated tablets, capsules, injections, eye ointments, eye drops, and creams.	Create	Conceptual, Procedural
CO3	Evaluate the quality and performance of tablets and capsules using established pharmaceutical parameters.	Evaluate	Conceptual, Procedural
CO4	Interpret experimental data from preformulation, formulation, and evaluation studies to optimize dosage form development.	Evaluate	Conceptual, Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Industrial Pharmacy-I Practical (BP506P)

Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	2	2	1	-	-	1	1	-	1	1
CO-2	3	2	3	1	-	-	1	1	-	1	1
CO-3	3	1	3	1	-	-	1	1	-	1	1
CO-4	3	1	3	1	-	-	1	1	-	1	1
PO Target	3	1.5	2.75	1	-	-	1	1	-	1	1

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

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- ❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criteria.

KIET School of Pharmacy

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: V
Course name: Pharmacology-II Practical	Course Code: BP507P	Faculty: Dr. Shardendu Kumar Mishra

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Illustrate the effects of drugs on isolated animal tissue preparations using simulation software.	Analyze	Conceptual & Procedural
CO2	Determine the pharmacological activity of drugs on animal models through simulation-based experiments.	Apply	Conceptual & Procedural
CO3	Demonstrate various bioassay techniques on animal tissues using simulation software.	Apply	Conceptual & Procedural
CO4	Interpret simulation data to evaluate drug responses in pharmacological studies.	Evaluate	Conceptual & Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Pharmacology-II Practical (BP507P)

Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	1	-	3	-	1	2	-	1	1	3
CO-2	3	1	-	2	-	1	2	-	1	1	3
CO-3	3	1	-	3	-	1	2	-	1	1	3
CO-4	3	1	-	3	-	1	2	-	1	1	3
PO Target	3	1	-	2.75	-	1	2	-	1	1	3

[Signature]

Signature of Course Coordinator

[Signature]

Signature of Addl. HoD

[Signature]

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- ❖ The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- ❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criteria.

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: V
Course name: Pharmacognosy and Phytochemistry II – Practical	Course Code: BP508P	Faculty: Dr. Daksh Bhatia

Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)
CO1	Acquire the knowledge of the morphology and microscopy of crude drugs for identification and standardization.	Apply
CO2	Compare various extraction and isolation methods of phytoconstituents from crude drugs.	Evaluate
CO3	Analyze the phytoconstituents using standardized parameters and techniques.	Analyze
CO4	Interpret analytical data to assess the quality and purity of crude drugs and their bioactive constituents.	Evaluate

Mapping of Course outcomes with Program outcomes CO-POs Matrix											
Pharmacognosy and Phytochemistry II – Practical (BP508P)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	-	-	1	-	2	-	-	-	-	1
CO-2	3	2	2	2	-	2	-	-	-	2	2
CO-3	3	2	2	2	-	2	2	-	-	-	2
CO-4	3	2	2	2	-	2	2	-	-	-	2
PO Target	3	2	2	1.75	-	2	2	-	-	2	1.75

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criteria.....

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: V
Course name: Hospital Training-I	Course Code: BP509P	Faculty: Kapil Sachan

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
	After completion of the course, the student will be able to		
CO1	Illustrate the application and techniques of first aid, including wound dressing and artificial respiration.	Apply	Conceptual & Procedural
CO2	Apply various routes of injection safely and accurately on patients as per clinical requirements.	Apply	Procedural
CO3	Interpret the patient observation charts, prescriptions, and simple diagnostic reports for effective healthcare delivery.	Evaluate	Conceptual & Procedural
CO4	Demonstrate professional skills in emergency response and patient care through practical and theoretical knowledge.	Apply	Conceptual & Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Hospital Training-I (BP509P)

Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	3	2	3	-	2	3	-	2	-	3
CO-2	3	-	2	3	-	2	3	-	2	-	3
CO-3	3	3	2	3	-	2	3	-	2	-	3
CO-4	3	3	2	3	-	2	3	-	2	-	3
PO Target	3	3	2	3	-	2	3	-	2	-	3

Kapil Sachan

Signature of Course Coordinator

Kapil Sachan

Signature of Addl. HoB

Kapil Sachan

Signature of HoB

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- The courses having credits less than 3 should have 4 number of COs.
- The courses having credits 3 to 6 should have 5 number of COs.
- The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are: **Active & Knowledge** and optional parts are **Condition and Criteria**.

KIET School of Pharmacy

Program Name: B. Pharm	Semester: VII
Course name: Instrumental Methods of Analysis	Academic Session: Odd 2025-26
	Faculty: Ms. Shipra Singhal
	Course Code: BP701T

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
	After completion of the course, the student will be able to		
CO1	Explain the principle, instrumentation and pharmaceutical applications of UV radiations with drugs.	Understand	Factual, Conceptual
CO2	Explore the principle, instrumentation and applications of vibrational spectrophotometric drug analysis.	Analyze	Factual, Conceptual
CO3	Illustrate the principle and applications of basic chromatographic separation techniques in drug analysis.	Apply	Factual, Conceptual
CO4	Describe the principle, instrumentation and applications of gas and liquid chromatographic separation in drug analysis.	Understand	Factual, Conceptual
CO5	Explain the principle and applications of ion exchange, gel and affinity chromatographic techniques.	Understand	Factual, Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Instrumental Methods of Analysis (BP701T)

Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	-	3	3	-	2	2	-	-	-	3
CO-2	3	-	3	3	-	2	2	-	-	-	3
CO-3	3	3	3	3	-	2	2	-	-	-	3
CO-4	3	3	3	3	-	2	2	-	-	2	3
CO-5	3	3	3	3	-	2	2	-	-	2	3
PO Target	3	3	3	3	-	2	2	-	-	2	3

Signature of Course Coordinator

Signature of Addl. HoB

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2020-21)

- The courses having credits 3 to 6 should have 5 numerical questions.
- The statement of a CO must be formed considering a program outcome and optional parts are Condition and Criteria.
- The courses having credits less than 3 should have 4 number of COs.
- The mandatory parts are Action & Knowledge

Program Name: B. Pharm	KIET School of Pharmacy	Semester: VII
Course name: Industrial Pharmacy-II	Academic Session: Odd 2025-26	Faculty: Ms. Vidhu Saxena
	Course Code: BP702T	

Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)
	After completion of the course, the student will be able to	
CO1	Explain pilot plant scale up techniques, SUPAC guidelines and platform technology in perspective of Indian Pharmaceutical setup	Understand
CO2	Categorize guidelines for technology development and transfer along with different technology transfer agencies in India, in light of referring the basics of product development and commercialization	Analyze
CO3	Assess regulatory affairs and various regulatory requirements for drug approval in context with regulatory framework of Pharma Industry	Evaluate
CO4	Outline different aspects of Quality Management System in the capacity of quality product development	Analyze
CO5	Examine Indian Regulatory Requirements and approval process for new drugs.	Apply
		Factual, Conceptual
		Factual, Conceptual
		Factual, Conceptual
		Factual, Conceptual
		Factual, Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix											
Industrial Pharmacy-II (BP702T)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	3	2	-	-	-	3	-	-	-	3
CO-2	3	-	3	-	-	-	3	-	-	-	3
CO-3	3	-	2	-	-	3	3	-	-	-	3
CO-4	3	-	3	-	-	2	3	-	-	-	3
CO-5	3	-	2	-	-	2	3	-	-	-	3
PO Target	3	3	2.4	-	-	2.33	3	-	-	-	3

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

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- The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criteria.

Program Name: B. Pharm	Semester: VII
Course name: Pharmacy Practice	Academic Session: Odd 2025-26
	Faculty: Ms. Priya Bansal
	Course Code: BP703T

Tagging COs with BLs & KCs		Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
CO No.				
After completion of the course, the student will be able to				
CO1	Acquire the basic knowledge of hospital organization, establishments of wholesale retail drug store and role of pharmacist in hospital specifically in ADR monitoring.	Apply	Factual & Conceptual	Factual & Conceptual
CO2	Explore the drug distribution system in hospital, hospital formulary. Indian scenario for therapeutic drug monitoring and medical adherence to maintain the patient compatibility.			
CO3	Review the pharmacy policies and therapeutic committee to maintain the drug safety and medication error.	Understand	Factual & Conceptual	Factual & Conceptual
CO4	Illustrate the implementation of new budget in pharmacy and rational use of OTC medications.	Analyze	Factual & Conceptual	Factual & Conceptual
CO5	Evaluate various methods of estimation of blood compositions and urine in clinical set-up.	Evaluate	Factual, Conceptual & Procedural	Factual, Conceptual & Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix											
Pharmacy Practice (BP703T)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	2	2	1	-	3	2	2	3	-	2
CO-2	3	2	2	1	-	3	2	2	3	-	2
CO-3	3	2	2	-	-	2	2	3	3	-	2
CO-4	3	2	2	-	-	3	2	2	2	-	2
CO-5	3	2	3	1	-	3	2	1	2	-	2
PO Target	3	2	2.2	1	-	2.8	2	2	2.6	-	2

Signature of HoD

Signature of Addl. HoD

Signature of Course Coordinator

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KIET School of Pharmacy

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: VII
Course name: Novel Drug Delivery System	Course Code: BP704T	Faculty: Dr. Lakshmi

Tagging COs with BLs & KCs	
CO No.	Statement of Course Outcome
After completion of the course, the student will be able to	
CO1	Understand basic concepts related to Controlled drug delivery systems.
CO2	Understand the concept and preparation of mucosal drug delivery systems, microcapsules, and implants.
CO3	Examine various approaches for development of Transdermal Drug delivery systems, Gastroretentive drug delivery systems and nasopulmonary drug delivery systems.
CO4	Apply different methods for development of targeted drug delivery systems for various drugs.
CO5	Apply ocular and intrauterine drug delivery systems for various medical conditions.

Mapping of Course outcomes with Program outcomes CO-POs Matrix											
Novel Drug Delivery System (BP704T)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	2	1	-	-	-	-	-	1	1	1
CO-2	3	2	1	-	-	-	-	-	1	-	1
CO-3	3	3	2	1	-	-	-	-	1	-	1
CO-4	3	3	3	-	-	-	-	-	-	2	1
CO-5	3	3	2	-	-	-	-	-	2	1	1
PO Target	3	2.6	1.8	1	-	-	-	-	1.25	1.33	1

Lakshmi

Signature of Course Coordinator

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Signature of Addl. HoD

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Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

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- ❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criteria.

Program Name: B. Pharm

KIET School of Pharmacy

Course name: Instrumental Method of Analysis Practical

Academic Session: Odd 2025-26

Semester: VII

Tagging COs with BLs & KCs

Course Code: BP705P

Faculty: Ms. Pallavi Barik

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Analyze the absorption maxima and the effect of solvents on various organic compounds and drug molecules using different spectroscopic techniques.	Analyze	Conceptual & Procedural
CO2	Characterize the drug samples by employing advanced analytical methods, including HPLC, gas chromatography, and flame photometry.	Analyze	Conceptual & Procedural
CO3	Illustrate the separation processes and principles underpinning various chromatographic techniques for identifying and isolating chemical entities.	Analyze	Conceptual & Procedural
CO4	Interpret experimental data from spectroscopic and chromatographic analyses to assess compound purity, identity, and pharmaceutical relevance.	Evaluate	Conceptual & Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Instrumental Method of Analysis Practical (BP705P)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	1	1	3	-	2	2	1	1	1	2
CO-2	3	1	1	3	-	2	2	1	1	1	2
CO-3	3	1	1	3	-	2	2	1	1	1	2
CO-4	3	1	1	3	-	2	2	1	1	1	2
PO Target	3	1	1	3	-	2	2	1	1	1	2

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

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- The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criteria

KIET School of Pharmacy

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: VII
Course name: Practice School	Course Code: BP706PS	Faculty: Mr. Debaprasad Ghosh

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Understand the rationale behind practice school in a specific thrust area of pharmacy.	Understand	Factual & Conceptual
CO2	Demonstrate expertise in data mining, literature review, and data processing relevant to the chosen thrust area.	Apply	Factual, Conceptual & Procedural
CO3	Apply appropriate technologies and strategies to address the learning needs of Practice School students in the thrust area.	Apply	Conceptual & Procedural
CO4	Evaluate new findings into suitable outcomes with potential applications in research.	Evaluate	Conceptual & Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Practice School (BP706PS)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	2	-	-	-	1	1	2	-	2	3
CO-2	3	2	2	3	-	1	3	2	-	2	3
CO-3	3	2	2	3	-	1	3	2	2	2	3
CO-4	3	2	2	3	-	1	3	2	2	2	3
PO Target	3	2	2	3	-	1	2.5	2	2	2	3

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- ❖ The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- ❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criteria.

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: VII
Course name: Report on Hospital Training-II	Course Code: BP707P	Faculty: Ms. Vidhu Saxena

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Understand the operations, protocols, and professional working of hospital pharmacy through hands-on training.	Understand	Conceptual Procedural
CO2	Apply theoretical knowledge and technical skills to real-world pharmaceutical tasks, such as drug dispensing, documentation processes.	Apply	Factual, Conceptual
CO3	Apply effective communication and teamwork abilities in multidisciplinary healthcare settings, adhering to professional and ethical standards.	Apply	Conceptual & Procedural
CO4	Evaluate work practices and processes observed during training, identifying areas for improvement and reporting experiences in a structured format.	Evaluate	Conceptual & Procedural

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Report on Hospital Training-II (BP707P)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	3	1	3	-	3	2	2	3	1	3
CO-2	3	-	1	3	-	3	3	2	3	1	3
CO-3	3	-	-	3	-	3	3	3	3	-	2
CO-4	3	-	-	3	-	3	2	3	3	-	2
PO Target	3	3	1	3	-	3	2.5	2.5	3	1	2.5

[Signature]

Signature of Course Coordinator

[Signature]

Signature of Addl. HbD

[Signature]

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- ❖ The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- ❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge

KIET School of Pharmacy

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: VII
Course name: AI tools and Corporate Quality Skills	Course Code: KEVA708T	Faculty: Ms. Surbhi Kamboj

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Understand the role and potential of AI in healthcare environments.	Understand	Factual & Conceptual
CO2	Apply AI tools and technologies to address real-world healthcare needs and challenges.	Apply	Factual & Conceptual
CO3	Demonstrate effective communication, relationship-building, teamwork, conflict resolution, and emotional intelligence in professional settings.	Apply	Factual & Conceptual
CO4	Prepare for and perform successfully in job interviews, deliver effective presentations, and exhibit overall workplace professionalism and adaptability.	Create	Factual & Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix

AI tools and Corporate Quality Skills (KEVA708T)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	2	1	2	2	-	-	2	-	-	-	1
CO-2	2	3	2	3	-	-	2	-	-	-	1
CO-3	1	2	2	-	3	3	-	3	-	-	1
CO-4	-	2	2	-	3	3	-	3	-	-	1
PO Target	1.66	2	2	2.5	3	3	2	3	-	-	1

Surbhi
Signature of Course Coordinator

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Signature of Addl. HoD

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Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- ❖ The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- ❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge

KIET School of Pharmacy

Program Name: B. Pharm	Academic Session: Odd 2025-26	Semester: VII
Course name: AI tools and Corporate Quality Skills Practical	Course Code: KEVA709P	Faculty: Ms. Sheena Mehta

Tagging COs with BLs & KCs

CO No.	Statement of Course Outcome	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
After completion of the course, the student will be able to			
CO1	Apply various technology and AI tools in healthcare and pharmaceutical settings.	Apply	Procedural & Conceptual
CO2	Discuss communication skills, excel in interpersonal interactions, and work well within a team.	Understand	Procedural & Conceptual
CO3	Interact effectively in interviews and demonstrate professionalism in their interactions.	Understand	Procedural & Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix

AI tools and Corporate Quality Skills Practical (KEVA709P)											
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	2	2	3	3	-	-	3	1	3	-	1
CO-2	1	2	3	-	3	3	-	3	-	-	1
CO-3	-	2	3	-	3	3	-	3	-	-	1
PO Target	1.5	2	3	3	3	3	3	2.33	3	-	1

Signature of Course Coordinator

Signature of Addl. MoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2023-24)

- ❖ The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- ❖ The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge

