

KIET SCHOOL OF PHARMACY
KIET GROUP OF INSTITUTIONS
GHAZIABAD

Minutes of Meeting held on 26th October 2024 AT KIET Group of Institution

Agenda:

Discussion and approval of CO statements, CO-PO mapping, target benchmark for B. Pharm 3rd, 5th, and 7th semester and Program Outcomes approval for M. Pharm for session 2024-25 Odd semester

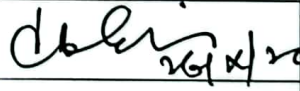
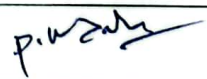
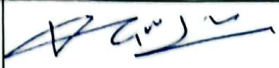
Time: 11:30 A.M.

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

Topics Discussed:

1. The External BoS members reviewed and approved the CO statements and CO-PO mapping per IQAC requirements for the 2024-25 Odd semester session.
2. As per the discussion on the IQAC audit report, BoS decided to keep the same target benchmark (internal and external) for the odd semester 2023-24 for the odd semester for session 2024-25.
3. The CO statements, CO-PO mapping, and target benchmarks were handed over to the OBE team for approval by higher authorities. Afterwards, they will be uploaded on the KIET MsERP Portal through the respective CO-coordinator.
4. The BoS members reviewed and approved the new Program Outcome statement for the M. Pharm program for the 2024-25 session.
5. The approved PO statements were handed over to the OBE team for further processing and approval from higher authorities.

BoS Members Present:

S No.	Name	Appointment	Signature
1.	Prof. (Dr.) Preeti Bajaj	Special Invitee	
2.	Prof. Prof. (Dr. Javed Ali)	External Subject Expert	
3.	Prof. (Dr.) Shyam S. Sharma	External Subject Expert	
4.	Prof. (Dr.) P. K. Sahoo	Expert nominated by Vice Chancellor	
5.	Dr. Bhausahab Patil	Representatives from Industry	Online
6.	Dr. Kapil Joshi	Representatives from Industry	

7.	Prof. (Dr.) Anil K. Ahlawat	Special Invitee	
8.	Dr. Abhinav Juneja	Special Invitee	
9.	Dr. N.G. Raghavendra Rao	Internal Subject Expert	<i>Greeny</i>
10.	Dr. Roma Ghai	Internal Subject Expert	<i>Rohai</i>
11.	Dr. Daksh Bhatia	Internal Subject Expert	
12.	Mr. Nazakat Al	Alumni Entrepreneur nominated by Director General	<i>Nazakat Al</i>

Prof. (Dr.) K. Nagarajan
Principal,
KIET School of Pharmacy

KIET SCHOOL OF PHARMACY

Minutes of Meeting held on 15th October 2024 in KSOP Department

Agenda:

Discussion and approval of CO statements, CO-PO mapping, target benchmark for B. Pharm 3rd, 5th, and 7th semester and Program Outcomes approval for M. Pharm for session 2024-25 Odd semester

Time: 12:30 P.M.

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

BoS Members Present:

1. Dr. N.G. Raghavendra Rao *[Signature]*
2. Dr. Roma Ghai *[Signature]*
3. Dr. Richa Goel *[Signature]*
4. Dr. Shardendu Kumar Mishra, *[Signature]*
5. Dr. Snigdha Bhardwaj *[Signature]*

Topics Discussed: Internal

1. The BoS members reviewed and approved the CO statements and CO-PO mapping per IQAC requirements for the 2024-25 Odd semester session.
2. As per the discussion on the IQAC audit report, BoS decided to keep the same target benchmark (internal and external) for the odd semester 2023-24 for the odd semester for session 2024-25.
3. The CO statements, CO-PO mapping, and target benchmarks were handed over to the OBE team for approval by higher authorities. Afterwards, they will be uploaded on the KIET MsERP Portal through the respective CO-coordinator.
4. The BoS members reviewed and approved the new Program Outcome statement for the M. Pharm program for the 2024-25 session.
5. The approved PO statements were handed over to the OBE team for further processing and approval from higher authorities.

[Signature]
Prof. (Dr.) K. Nagarajan
Principal,
KIET School of Pharmacy

[Signature]
Prof. (Dr.) Anil K. Ahlawat
Director Academics,

[Signature]
Prof. (Dr.) Preeti Bajaj
Director General

gt needs further refining but same can implement
24/10/24

KIET SCHOOL OF PHARMACY

PROGRAM OUTCOMES FOR M. PHARM PROGRAM

PO1: Research and Development Competence- Demonstrate the ability to independently conduct research, investigations, and development activities, contributing to advancements in pharmaceutical sciences.


PO2: Technical Communication Skills- Develop the ability to write comprehensive technical reports and effectively present research findings and technical documents to cater for the needs of the program.

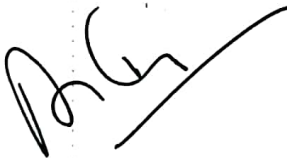
PO3: Advanced Specialization Expertise- Exhibit a high level of expertise and understanding in the chosen specialization, surpassing the knowledge and skills expected at the undergraduate level in pharmacy.

PO4: Critical Thinking and Problem Solving- An ability to critically analyze and evaluate complex problems in pharmaceutical sciences, and to develop innovative and effective solutions using a multi-disciplinary approach.

PO5: Professional and Ethical Practices- An understanding of professional, ethical, and legal responsibilities in the field of pharmacy, and the ability to apply ethical principles in research, practice, and decision-making processes.

PO6: Leadership and Teamwork- An ability to work effectively as a collaborative team member in the department as well as in multidisciplinary and multicultural settings, demonstrating leadership, and management skills thereby inculcating life-long learning with best practices in the profession.


Prof. (Dr.) K. Nagarajan
Principal,
KIET School of Pharmacy


Prof. (Dr.) Anil K. Ahlawat
Director Academics

Prof. (Dr.) Preeti Bajaj
Director General

KSOP CO-COORDINATOR Odd Sem, 2024-25

Sem.	SUBJECT Code	Name of the SUBJECT	CO-COORDINATOR
1	BP101T	Human Anatomy and Physiology– Theory	Dr. Praveen Kr. Dixit
1	BP102T	Pharmaceutical Analysis I – Theory	Dr. Abhay Bhardwaj
1	BP103T	Pharmaceutics I – Theory	Mr. Sanjeev Chauhan
1	BP104T	Pharmaceutical Inorganic Chemistry– Theory	Ms. Pragati Gupta
1	BP105T	Communication Skills – Theory	Mr. Himanshu Saxena (HSS)
1	BP106RBT	Remedial Biology	Ms. Sheena
1	BP106RMT	Mathematics – Theory	Dr. Sonal (AS-I)
1	BP107P	Human Anatomy and Physiology – Practical	Ms. Priya Bansal
1	BP108P	Pharmaceutical Analysis I – Practical	Ms. Pallavi Barik
1	BP109P	Pharmaceutics I – Practical	Ms. Sakshi Garg
1	BP110P	Pharmaceutical Inorganic Chemistry– Practical	Ms. Shikha Kaushik
1	BP111P	Communication Skills – Practical	Mr. Himanshu Saxena (HSS)
1	BP112RBP	Remedial Biology– Practical	Ms. Sheena
1	24VA113	Emerging Technologies in Pharmacy-AI, Data Science, Cloud, IOT, 3D Printing	Ms. Sakshi Garg
3	BP301T	Pharmaceutical Organic Chemistry II – Theory	Ms. Shipra Singhal
3	BP302T	Physical Pharmaceutics I – Theory	Mr. Debaprasad Ghosh
3	BP303T	Pharmaceutical Microbiology – Theory	Dr. Monika Kaurav
3	BP304T	Pharmaceutical Engineering – Theory	Mr. Sanjeev Chauhan
3	BP305P	Pharmaceutical Organic Chemistry II – Practical	Mr. Surya Prakash
3	BP306P	Physical Pharmaceutics I – Practical	Mr. Debaprasad Ghosh
3	BP307P	Pharmaceutical Microbiology– Practical	Dr. Monika Kaurav
3	BP308P	Pharmaceutical Engineering –Practical	Mr. Sanjeev Chauhan
3	KVE301	Universal Human Values and Professional Ethics	Dr. Praveen Kr. Dixit
3		MINOR SPECIALIZATION (DRA)	Ms. Sakshi Garg
5	BP501T	Medicinal Chemistry II – Theory	Dr. Garima Kapoor
5	BP502T	Industrial Pharmacy I – Theory	Dr. Ashu Mittal
5	BP503T	Pharmacology II – Theory	Dr. Abhishek Kumar
5	BP504T	Pharmacognosy and Phytochemistry	Dr. Richa Goel
5	BP505T	Pharmaceutical Jurisprudence – Theory	Mr. Balwan Singh
5	BP506P	Industrial Pharmacy I– Practical	Dr. Lakshmi
5	BP507P	Pharmacology II – Practical	Dr. Shardendu Kumar Mishra
5	BP508P	Pharmacognosy and Phytochemistry II – Practical	Dr. Daksh Bhatia
5	BP509P	Report on Hospital Training-I	Mr. Kapil Sachan
7	BP701T	Instrumental Methods of Analysis – Theory	Dr. Lalit
7	BP702T	Industrial Pharmacy II – Theory	Mr. Balwan Singh
7	BP703T	Pharmacy Practice – Theory	Ms. Priya Bansal
7	BP704T	Novel Drug Delivery System (NDDS) – Theory	Dr. Lakshmi
7	BP705P	Instrumental Methods of Analysis/ NDDS – Practical	Dr. Garima Kapoor
7	BP706PS	Practice School	Mr. Debaprasad Ghosh
7	BP707P	Report on Hospital Training-II	Ms. Vidhu Saxena
7		AI and Corporate Quality Skills	Ms. Nidhi
PG-QA	MQA101T (New)	Modern Pharmaceutical Analytical Techniques	Dr. K. Nagarajan
	MQA102T (New)	Quality Management System	Dr. Smriti Sahu
	MQA103T (New)	Quality Control and Quality Assurance	Dr. Lakshmi
	MQA104T (New)	Product Development and Technology Transfer	Ms. Surbhi Kamboj
	MQA105P (New)	Pharmaceutical Quality Assurance Practical I	Ms. Surbhi Kamboj
PG-Phceutics	MPH101T	Modern Pharmaceutical Analytical Techniques	Dr. Abhay Bhardwaj
	MPH102T	Drug Delivery System	Dr. N. G. R. Rao
	MPH103T	Modern Pharmaceutics	Dr. Snigdha Bhardwaj
	MPH104T	Regulatory Affairs	Mr. Anuj Pathak
	MPH105P	Pharmaceutics Practical I	Dr. Snigdha Bhardwaj
PG-P'Cology	MPL101T	Modern Pharmaceutical Analytical Techniques	Dr. Smriti Sahu
	MPL102T	Advanced Pharmacology-I	Dr. Abhishek
	MPL103T	Pharmacological and Toxicological Screening Methods-I	Dr. Roma Ghai
	MPL104T	Cellular and Molecular Pharmacology	Dr. Shardendu Kumar Mishra
	MPL105P	Experimental Pharmacology - I	Dr. Roma Ghai
PG-III SEM	MRM301T	RESEARCH METHODOLOGY AND BIostatISTICS	Ms. Nidhi

2/16

TARGET BENCHMARK B.PIARM ODD SEM 2023-24 (please put the average of the last three years as the theory external target benchmark. If there is any deviation, you need to justify the same to BoS)

S.NO.	SUBJECT CODE	SUBJECT NAME	SUBJECT TYPE	FACULTY NAME	Internal Target	External Target
1	BP101T	HUMAN ANATOMY AND PHYSIOLOGY-Theory	THEORY	Dr. Praveen Kr. Dixit	60	58
2	BP102T	PHARMACEUTICAL ANALYSIS I - Theory	THEORY	Dr. Abhay Bhardwaj	55	53
3	BP103T	PHARMACEUTICS I - Theory	THEORY	Mr. Debprasad Ghosh	54	52
4	BP104T	PHARMACEUTICAL INORGANIC CHEMISTRY	THEORY	Ms. Shikha Kaushik	57	55
5	BP105T	COMMUNICATION SKILLS - Theory	THEORY	Dr Priyanka	58	55
6	BP106RBT	REMEDIAL BIOLOGY - Theory	THEORY	Ms. Sheena Mehta	57	55
7	BP106RMT	REMEDIAL MATHEMATICS - Theory	THEORY	Dr. Richa Aggarwal/Dr Barka	58	55
8	BP107P	HAP PRACTICAL	LAB	Ms. Priya Bansal	70	70
9	BP108P	P.ANALYSIS PRACTICAL	LAB	Dr. Ncha Rana	70	70
10	BP109P	PHARMACEUTICS PRACTICAL	LAB	Mr. Pankaj Bhatt	70	70
11	BP110P	IPC PRACTICAL	LAB	Ms. Pragati Gupta	70	70
12	BP105T	COMMUNICATION SKILLS PRACTICAL	LAB	Dr Priyanka	70	70
13	BP112RBP	REMEDIAL BIOLOGY PRACTICAL	LAB	Ms. Sheena Mehta	70	70
14	BP-301T	PHARMACEUTICAL ORGANIC CHEMISTRY-II	THEORY	Ms. Shipra Singhal	60	55
15	BP-302T	PHYSICAL PHARMACEUTICS-I	THEORY	Dr. Kiran Sharma	63	61
16	BP-303T	PHARMACEUTICAL MICROBIOLOGY	THEORY	Dr. Monika Kaurav	58	56

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17	BP-304T	PHARMACEUTICAL ENGINEERING	THEORY	Mr. Balwan Singh	58	55
18	BP-305P	PHARMACEUTICAL ORGANIC CHEMISTRY-II PRAC	LAB	Mr. Surya Prakash	70	70
19	BP-306P	PHYSICAL PHARMACEUTICS-I PRACTICAL	LAB	Ms. Sakshi Garg	70	70
20	BP-307P	PHARMACEUTICAL MICROBIOLOGY PRACTICAL	L.A.B	Dr. Monika Kaurav	70	70
21	BP-308P	PHARMACEUTICAL ENGINEERING PRACTICAL	LAB	Mr. Sanjeev Chauhan	70	70
22	KVE-301	UNIVERSAL HUMAN VALUES & PROFESSIONAL ETHICS	THEORY	Dr. Garima Kapoor	67	65
23	BP410VA	MINOR SPECIALIZATION (DRA)	VALUE ADDED COURSE	Dr. Deepthi Katiyar	60	55
24	BP-501T	MEDICINAL CHEMISTRY-II	THEORY	Ms. Pragati Gupta	57	55
25	BP-502T	INDUSTRIAL PHARMACY-I	THEORY	Dr. Ashu Mittal	56	54
26	BP-503T	PHARMACOLOGY-II	THEORY	Dr. Abhishek Kumar	59	57
27	BP-504T	PHARMACOGNOSY-II	THEORY	Dr. Daksh Bhatia	60	55
28	BP-505T	PHARMACEUTICAL JURISPRUDENCE	THEORY	Mr. Pankaj Bhatt	57	55
29	BP-506P	INDUSTRIAL PHARMACY-I PRACTICAL	LAB	Ms. Surbhi Kamboj	70	70
30	BP-507P	PHARMACOLOGY-II PRACTICAL	LAB	Dr. Roma Ghai	70	70
31	BP-508P	PHARMACOGNOSY-II PRACTICAL	LAB	Dr. Richa Goel	70	70
32	BP-701T	INSTRUMENTAL METHODS OF ANALYSIS THEORY	THEORY	Dr. Vaishali Manikrao Patil	63	61
33	BP-702T	INDUSTRIAL PHARMACY II THEORY	THEORY	Mr. Anuj Pathak	61	59
34	BP-703T	PHARMACY PRACTICE THEORY	THEORY	Dr. Shardendu Kumar Mishra	63	61
35	BP-704T	NOVEL DRUG DELIVERY SYSTEM (NDDS) THEORY	THEORY	Dr. Lakshmi	64	62

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36	BP-705P	INSTRUMENTAL METHODS OF ANALYSIS PRACTICAL	LAB	Dr. Garima Kapoor	70	70
37		Advances in Computer including AI and Corporate Quality Skills	VALUE ADDED COURSE	Ms. Vidhu Saxena	50	50
38	BP-706PS	PS- PHYTOMEDICINE	LAB			
39	BP-706PS	PS- FORMULATION DEVELOPMENT	LAB			
40	BP-706PS	PS- DRUG DESIGN AND PROCESS CHEMISTRY	LAB			
41	BP-706PS	PS- QUALITY CONTROL AND QUALITY ASSURANCE	LAB	Mr. Debaprasad Ghosh	70	70
42	BP-706PS	PS- ALTERNATIVE MEDICINE	LAB			
43	BP-706PS	PS- ARTIFICIAL INTELLIGENCE	LAB			




PRINCIPAL
KSOP

KIET Group of Institutions, Delhi – NCR, Ghaziabad

Program Name: B. Pharm **KIET School of Pharmacy**
Course Name: Pharmaceutical Organic Chemistry-II **Academic Session: Odd 2024-25**
Year: II **Semester:** III
Course Code: BP301T **Course Coordinator Name:** Shipra Singhal

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Illustrate the structure, properties, chemical reactions and uses of benzene and its derivatives.	PO-1,3,6,7,9, 10, 11	Apply	Factual & Conceptual
CO2	Examine the structure, properties, chemical reactions and uses of phenols, aromatic amines and aromatic acids.	PO-1,3,6,7,9, 10, 11	Apply	Factual & Conceptual
CO3	Determine the structure, chemical reactions and analytical constants and significance of oil and fats.	PO-1,3,6,7,9, 10, 11	Apply	Factual & Conceptual
CO4	Illustrate the structure, synthesis, chemical reactions and medicinal uses of polynuclear hydrocarbons.	PO-1,3,6,7,9, 10, 11	Apply	Factual & Conceptual
CO5	Illustrate the structure, properties, chemical reactions and uses of cycloalkanes.	PO-1,3,6,7,9,10, 11	Apply	Factual & Conceptual

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1		-	2	-	-	2	1	-	2	1	1
CO2		-	2	-	-	2	1	-	2	1	1
CO3		-	2	-	-	2	1	-	2	1	1
CO4		-	2	-	-	2	1	-	2	1	1
CO5		-	2	-	-	2	1	-	2	1	1
PO Target	3.00	-	2.00	-	-	2.00	1.00	-	2.00	1.00	1.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
1. Mr. Surya Prakash		2. Ms. Shipra Singhal	



Signature of Course Coordinator



Assoc./ Asst. Head DOC



Signature of Addl. HoD



Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)

- ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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 Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy
Academic Session: Odd 2024-25 **Year: II** **Semester: III**
Program Name: B. Pharm **Course Coordinator Name: Mr. Debaprasad Ghosh**
Course Name: Physical Pharmaceutics-I **Course Code: BP302T**

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Illustrate the parameters related to solubility of the drugs.	PO-1,2,3,4,8,9,11.	Apply	Factual, Conceptual
CO2	Analyze states of matter, properties, and physicochemical properties of drug molecules.	PO-1,2,3,4,8,9,11.	Analyze	Factual, Conceptual
CO3	Explore about surface and interfacial phenomenon.	PO-1,2,3,4,8,9,11.	Apply	Factual, Conceptual
CO4	Illustrate the fundamental principles behind complexation and protein binding with proper examples.	PO-1,2,3,4,8,9,11.	Analyze	Factual, Conceptual
CO5	Illustrate the concepts of pH, buffers, and isotonic solutions along with their measurements and/or adjustments.	PO-1,2,3,4,7,8,9,11	Analyze	Conceptual, Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	1	2	1				1	1		2
CO2	3	1	2	1				1	1		2
CO3	3	1	2	2				1	1		2
CO4	3	1	2	2				1	1		2
CO5	3	1	2	1			3	1	1		2
PO Target		1.00	2.00	1.4			3.00	1.00	1.00		2.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Mr. Debaprasad Ghosh		Mr. Debaprasad Ghosh	

Signature of Course Coordinator

Assoc./ Assf. Head DOC


Signature of Assoc. HOD


Signature of HoD


Please Note (Reference: OBE Guidelines wef. Session 2021 - 22)
 ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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. **KIET School of Pharmacy**
 Course Name: Pharmaceutical Microbiology Academic Session: Odd 2024-25 Year: II Semester: III
 Course Code: BP303T Course Coordinator Name: Dr. Monika Kaurav

Course Outcomes

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Illustrate the scope and applications of pharmaceutical biotechnology	PO-1,11	Understand	Factual & Conceptual
CO2	Analyze various staining and sterilization techniques used in pharmaceutical biotechnology	PO-1,2,3,4,11	Analyze	Conceptual & Procedural
CO3	Outline evaluation methods of antiseptics, disinfectants, and the sterility testing as per different pharmacopoeias.	PO-1,2,3,11	Apply	Factual & Conceptual
CO4	Explain the significance of the clean area, methods, and standardization of microbial assay of biological products.	PO-1,2,3,4,5,10,11	Apply	Factual & Conceptual
CO5	Analyze the microbial spoilage, preservation of pharmaceutical products & processes, and application of tissue cell culture in pharmaceutical research.	PO-1,2,3,5,10,11	Analyze	Factual & Conceptual

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	-	-	-	-	-	-	-	-	-	-	-
CO2	2	2	1	2	-	-	-	-	-	-	-
CO3	2	2	1	-	-	-	-	-	-	-	-
CO4	2	2	1	1	1	-	-	-	-	1	2
CO5	2	2	1	-	1	-	-	-	-	1	2
PO Target	3.00	2.00	1.00	1.50	1.00	-	-	-	-	1.00	1.60

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Monika Kaurav		Dr. Monika Kaurav	


 Signature of Course Coordinator


 Assoc./ Asst. Head DOC


 Signature of Addl. HoD


 Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2021 - 22)
 ❖ The theory courses project having credits 3 to 6 should have 5 number of COs. The laboratory course/ min project/ seminar industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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 Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy

Program Name: B. Pharm

Course Name: Pharmaceutical Engineering-Theory

Academic Session: ODD 2024-25



Year: II Semester: III
Course Coordinator Name: Mr. Balwan Singh

Course Code: BP304T

Course Outcomes


CO No.	Statement of Course Outcome	Relevant POs	Revised Bloom's 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	PO-1, 2, 3, 7, 10, 11	Understand	Factual, Conceptual,
CO2	Explain process of heat transfer and various equipment's used in evaporation and distillation	PO-1, 2, 3, 10, 11	Analyze	Conceptual & Procedural
CO3	Examine various processes and equipment used in drying and mixing.	PO-1, 2, 3, 4, 10, 11	Apply	Conceptual & Procedural
CO4	Apply the concept of filtration and centrifugation for processing of pharmaceutical products.	PO-1, 2, 3, 4, 10, 11	Apply	Conceptual & Procedural
CO5	Explore the different material for pharmaceutical plant construction, including corrosion and its prevention	PO-1, 2, 3, 4, 6, 7, 10, 11	Analyze	Factual, Conceptual

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	1	1	1	-	-	1	1	-	-	1	1
CO2	1	1	1	-	-	1	-	-	-	1	1
CO3	1	1	1	1	-	1	-	-	-	1	1
CO4	1	1	1	1	-	1	-	-	-	1	1
CO5	1	1	1	1	-	1	1	-	-	1	1
PO Target	3.00	1.00	1.00	1.00	-	1.00	1.00	-	-	1.00	1.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Mr. Balwan Singh		Mr. Sanjeev Chauhan	

Signature of Course Coordinator


Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)

- The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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 Group of Institutions, Delhi – NCR, Ghaziabad


Program Name: B. Pharm **Academic Session:** Odd 2024-25 **Year:** II **Semester:** III
Course Name: Pharmaceutical Organic Chemistry-II **Course Code:** BP305P **Course Coordinator Name:** Surya Prakash

Course Outcomes

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Explore the laboratory techniques involved to perform the experiments of pharmaceutical chemistry.	PO-1,2,3,4, 7,8,9,10,11	Apply	Conceptual & Procedural
CO2	Practice the synthesis of some organic compounds like benzanilide, acetanilide, phenyl benzoate, 2,4,6-tribromo aniline etc.	PO-1,2,3,4, 7,8,9,10,11	Apply	Conceptual & Procedural
CO3	Analyze acid value, saponification value of oil and fats.	PO-1,2,3,4, 7,8,9,10,11	Analyze	Conceptual & Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	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
PO Target	3.00	1.00	3.00	1.00			2.00	2.00	1.00	1.00	3.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
1. Surya Prakash		2. Ms. Shipra Singhal	


Signature of Course Coordinator


Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)



- ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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 Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy
Program Name: B. Pharm **Academic Session: Odd 2024-25** **Year: II** **Semester: III**
Course Name: Physical Pharmaceutics-I (Practical) **Course Code: BP306P** **Course Coordinator Name: Mr. Debaprasad Ghosh**
Course Outcomes

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Evaluate the solubility, CST and pKa values of a drug.	PO-1,2,3,4,6,11	Evaluate	Conceptual, Procedural
CO2	Measure the partition co-efficient, Freundlich-Langmuir constant, stability constant and donor acceptor ratio of the formed complexes.	PO-1,2,3,4,6,11	Evaluate	Conceptual, Procedural
CO3	Evaluate the surface tension of given liquids by drop count and drop weight method, HLB number of a surfactant by saponification method and critical micellar concentration of surfactants.	PO-1,2,3,4,6,11	Evaluate	Conceptual, Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	2	2	2		1					2
CO2	3	2	2	2		1					2
CO3	3	2	2	2		1					2
PO Target	3.00	2.00	2.00	2.00		1.00					2.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Mr. Debaprasad Ghosh		Dr. N.G.R. Rao	

 Signature of Course Coordinator
 Assoc./ Asst. Head DOC

 Signature of Addl. HoD

 Signature of HoD

❖ Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)
 The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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 Group of Institutions, Delhi – NCR, Ghaziabad

Program Name: **B.Pharm.** KIET School of Pharmacy
 Academic Session: **Odd 2024-25** Year: **II** Semester: **III**
 Course Name: **Pharmaceutical Microbiology** Course Code: **BP307P** Course Coordinator Name: **Dr. Monika Kaurav**
Course Outcomes

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Apply various techniques and instruments used in the microbiology lab.	PO-1,2,3,4,5,8,9,11	Apply	Conceptual & Procedural
CO2	Apply their theoretical knowledge to prepare different types of culture media and sterility testing of different pharmaceutical products.	PO-1,2,3,4,5,8,9,11	Analyze	Conceptual & Procedural
CO3	Examine the type of bacteria by different staining techniques and biochemical testing methods.	PO-1,2,3,4,5,8,9,11	Analyze	Conceptual & Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	3	2	2	1	-	-	1	1	-	1
CO2	3	3	2	3	2	-	-	1	1	-	1
CO3	3	3	1	3	2	-	-	1	1	-	1
PO Target	3.00	3.00	1.66	2.66	1.66	-	-	1.00	1.00	-	1.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Monika Kaurav		Dr. Lalit M Nainwal	

Signature of Course Coordinator:

Assoc./ Asst. Head DOC:

Signature of Addl. HoD:

Signature of HoD:

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)

- ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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 Group of Institutions, Delhi – NCR, Ghaziabad



KIET School of Pharmacy

Program Name: B. Pharm **Semester: III**
Course Name: Pharmaceutical Engineering Practical **Academic Session: Odd 2024-25**
Course Code: BP308P **Year: II**
Course Coordinator Name: Mr. Sanjeev Chauhan

Course Outcomes


After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Demonstrate of process and factors affecting rate of filtration, centrifugation and size reduction.	PO-1,2,3,6,7,8,9,11	Apply	Conceptual, Procedural
CO2	Demonstrate the process & principles of drying, evaporation, crystallization and distillation.	PO-1,2,3,6,7,8,9,11	Apply	Conceptual & Procedural
CO3	Handle various pharmaceutical equipment like FBD, centrifuge, Lyophilizer, Tray Dryer, Vacuum Dryer, Reynolds no, Manometer, Double Cone Blender, Filter Press, Ball Mill, Sieve Shaker and Homogenizer.	PO-1,2,3,6,7,8,9,11	Apply	Conceptual & Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	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
PO Target	2.00	1.00	1.00			2.00	2.00	1.00	1.00		3.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Mr Sanjeev Chauhan		Mr. Balwan Singh	



Signature of Course Coordinator



Assoc./ Asst-Head DOC



Signature of Addl. HoD



Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)

- ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course, mini project, seminar, industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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 Group of Institutions, Delhi – NCR, Ghaziabad

Program Name: B. Pharm **Academic Session: Odd 2024-25** **Semester: III**
Course Name: UHVPE **Course Code: KVE301** **Year: II**
Course Outcomes **Course Coordinator Name: Dr. Praveen K. Dixit**

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Discuss the need, basic guidelines, content and process of Value Education under the light of "Universal Human Values"	PO-3,5,6,7,9,11	Understand	Factual, Conceptual
CO2	Explore the concept of harmony in the Human being (Myselfbeing "I" and "body" as separate entity).	PO-3,5,6,7,9,11	Apply	Factual, Conceptual
CO3	Ensure the concept "harmony" in the family and society keeping family as part of Undivided Society.	PO-3,5,6,7,9,11	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.	PO-3,5,6,7,9,10,11	Evaluate	Factual, Conceptual
CO5	Interpret the holistic approach of harmony in relation with Professional Ethics.	PO-3,5,6,7,9,10,11	Evaluate	Factual, Conceptual

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1			2		3	1	3		1		
CO2			2		3	1	3		1		
CO3			2		3	2	3		2		
CO4			2		3	2	3		3		
CO5			2		3	2	3		3		
PO Target			2.00		3.00	1.8	3.00		2.00	3.00	2.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Praveen K. Dixit		Mr. Surya Prakash	

 **Signature of Course Coordinator**
 **Assoc./ Asst. Head DOC**
 **Signature of HoD**

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)

- The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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 2024-25 Year: II Semester: III
 Course Name: Drug Regulatory affairs Course Code: KVA309T Course Coordinator Name: Ms. Sakshi Garg

Course Outcomes

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Explain the basics of Regulatory Affairs and the roles and responsibilities of the various Regulatory Agencies	PO-1,5,6,7,8,11	Understand	Factual and Conceptual
CO2	Determine the dossier preparation and general guidance on the submissions in US-FDA and European Union	PO- 1,2,3,5,6,7,11	Apply	Factual and Conceptual
CO3	Explain the basic Regulatory Documentations like DMF, PDR, BMR, BPR, Batch Formula, Master Formula Record and validation	PO-1,2,6,7,8,9,11	Understand	Factual and Conceptual
CO4	Illustrate ICH guidelines with emphasis to Efficacy, safety and quality.	PO-1,2,6,7,9,11	Analyze	Factual and Conceptual
CO5	Explain the concept of IPR vs regulatory affairs	PO-1,5,6,7,9,11	Understand	Factual and Conceptual

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	-	-	-	-	2	2	3	2	-	-	3
CO2	2	2	2	-	2	2	3	-	-	-	3
CO3	2	2	-	-	-	2	3	2	2	-	3
CO4	2	2	-	-	-	2	3	-	2	-	3
CO5	-	-	-	-	2	2	3	-	2	-	3
PO Target	3.00	2.00	2.00	-	2.00	2.00	3.00	2.00	2.00	-	3.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Ms. Sakshi Garg & Ms. Vidhu Saxena		Prof. Ashu Mittal & Dr. Lalit M Nainwal	

Signature of Course Coordinator

Assoc./ Asst. Head DOC

Signature of Addl. HoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2021 - 22)

- ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Examine the classification, mechanism of action and SAR of Antihistaminic agents	PO-1,3,4,7,8,10	Apply	Factual & Conceptual
CO2	Illustrate the classification, mechanism of action and SAR of Antineoplastic agents	PO-1,3,4,7,8,9,10	Analyze	Factual & Conceptual
CO3	Customize the classification, mechanism of action and SAR of various categories of Cardiovascular agents	PO-1,3,4,7,8,9,10	Apply	Factual & Conceptual
CO4	Explain the classification, mechanism of action and SAR of various categories of Endocrine system	PO-1,3,4,7,8,9,10	Analyze	Factual & Conceptual
CO5	Determine the classification, mechanism of action and SAR of Anti-diabetic agents and local Anesthetics	PO-1,3,4,7,8,9,10	Evaluate	Factual & Conceptual

CO No.	Program Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	-	2	1	-	-	1	1	-	1	-
CO2	3	-	2	1	-	-	1	1	2	1	-
CO3	3	-	2	1	-	-	1	1	2	1	-
CO4	3	-	2	1	-	-	1	1	2	1	-
CO5	3	-	2	1	-	-	1	1	2	1	-
PO Target	3	-	2	1	-	-	1	1	2	1	-
Faculty Members Teaching the Course			Signature		Faculty Members Teaching the Course			Signature			
Ms. Pragati Gupta					Dr. Garima Kapoor						

Signature of Course Coordinator

Assoc./ Asst. Head DOC

Signature of Addl. HoD

Signature of HoD

KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy

Program Name: B. Pharm Academic Session: Odd 2024-25 Year: III Semester: V
 Course Name: Industrial Pharmacy I Course Code: BP502T Course Coordinator Name: Dr. (Prof.) Ashu Mittal

Course Outcomes

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Understand preformulation studies, various drug products such as tablets, coated tablet, liquid oral, capsules, pellets, parenteral, ophthalmic products, cosmetics, aerosols, ophthalmic preparation and packaging material	PO-1,2,7	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	PO-1,2,3,4,7,8,11	Apply	Factual, Conceptual
CO3	Prepare drug products such as tablets, coated tablet, liquid oral, capsules, pellets, parenteral, ophthalmic products, cosmetics, aerosols, ophthalmic preparation	PO-1,2,3,5,7,8,10,11	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	PO-1,2,3,4,5,7,8,11	Evaluate	Factual, Conceptual, Procedural
CO5	Investigate various compression and processing problems related to manufacture of tablets, coated tablets, capsules	PO-1,2,3,8,11	Analyze	Factual, Conceptual

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1		2					1				
CO2	3	2		1				1			
CO3	3	2	3		1					1	
CO4	3	2	3	3	1						1
CO5	3	2	3		1						1
PO Target	3.00	2.00	3.00	2.00	1.00		1.00	1.00		1.00	1.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. (Prof.) Ashu Mittal		Prof. Anuj Pathak	

Signature of Course Coordinator: Signature of Assoc./ Asst. Head DOC:

Signature of Addl. HoD: Signature of HoD:

Please Note (Reference: OBE Guidelines wef. Session 2021 - 22)

- The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs.
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KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy


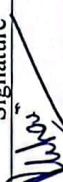
Program Name: **B. Pharm**
 Course Name: **Pharmacology-II**
 Course Outcomes

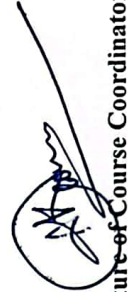
Academic Session: **Odd 2024-25**
 Course Code: **BP503T**

Year: **III**
 Semester: **V**
 Course Coordinator Name: **Dr. Abhishek Kumar**

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Understand the pharmacology of drugs used for management of cardiovascular disorders.	PO-1,3,4,7,11	Understand	Factual & Conceptual
CO2	Elaborate the pharmacology of drugs acting on urinary system.	PO-1,3,4,11	Understand	Factual & Conceptual
CO3	Examine the pharmacological and physiological roles of autacoids and drugs acting on their receptors.	PO1,3,4,11	Apply	Factual & Conceptual
CO4	Explore the pharmacology of drugs acting on endocrine system.	PO-1,3,4,11	Analyze	Factual & Conceptual
CO5	Illustrate bioassay of specific drugs.	PO-1,2,3,4,7,11	Apply	Conceptual & Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	-	-	1	1	-	-	1	-	-	-	2
CO2	-	-	1	1	-	-	-	-	-	-	2
CO3	-	-	1	1	-	-	-	-	-	-	2
CO4	-	-	1	1	-	-	-	-	-	-	2
CO5	3	1	2	1	-	-	1	-	-	-	2
PO Target	3.00	1.00	1.20	1.00	-	-	1.00	-	-	-	2.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
1. Dr. Abhishek Kumar		2. Dr. Roma Ghai	


Signature of Course Coordinator


Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)

- ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs.
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KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy

Program Name: B. Pharm Academic Session: Odd 2024-25 Year: III Semester: V
 Course Name: Pharmacognosy-II Course Code: BP504T Course Coordinator Name: Dr. Richa Goel

Course Outcomes

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Understand the concepts of metabolic pathways in higher plants.	PO-1, 4, 10	Understand	Factual & Conceptual
CO2	Acquire the knowledge of the chemistry, source, therapeutic uses and commercial applications of specific crude drugs.	PO-1, 3, 7, 11	Apply	Factual & Conceptual
CO3	Analyze the specified phytoconstituents utilizing the standardization of various physico-chemical parameters.	PO-1, 3, 4, 11	Analyze	Conceptual & Procedural
CO4	Understand the industrial applications of the mentioned phytoconstituents.	PO-1, 3, 4, 7, 10, 11	Understand	Factual & Conceptual
CO5	Compare various methods for extraction, isolation and purification of phytoconstituents.	PO-1, 2, 3, 4, 11	Evaluate	Conceptual & Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1				3						2	
CO2			2				2				2
CO3			2	3							2
CO4			2	3			2			2	2
CO5	3	1	2	3							1
PO Target	3.00	1.00	2.00	3.00			2.00			2.00	1.80

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Richa Goel		Dr. Daksh Bhatia	


 Signature of Course Coordinator


 Assoc./ Asst. Head DOC


 Signature of Addl. HOD


 Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)

- ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs
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KIET Group of Institutions, Delhi – NCR, Ghaziabad



KIET School of Pharmacy

Program Name: B. Pharm
Course Name: Pharmaceutical Jurisprudence
Course Outcomes

Academic Session: Odd 2024-25 **Year:** III **Semester:** V
Course Code: BP505T **Course Coordinator Name:** Dr. Snigdha Bhardwaj

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Explore the rules and regulations defined under the Import and manufacturing of D&C Act 1940 and Rules 1945.	PO-1, 2, 3, 7, 9, 10, 11	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.	PO-1, 2, 3, 7, 9, 10, 11	Apply	Factual & Conceptual
CO3	Illustrate the regulations of Pharmacy Act 1948, Medicinal and Toilet Preparations Act 1955 and NDPS Act 1985.	PO-1, 3, 6, 7, 9, 11	Analyze	Factual & Conceptual
CO4	Explain guidelines laid under the acts pertaining to prevention of cruelty to animals and national pricing authority.	PO-1, 2, 3, 7, 9, 11	Analyze	Factual & Conceptual
CO5	Determine the basics of pharmaceutical legislations, code of pharmaceutical ethics and other important acts like RTI, IPR, MTP.	PO-1, 3, 6, 7, 9, 11	Apply	Factual & Conceptual

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	2	3	-	-	-	3	-	3	3	3
CO2	3	2	3	-	-	-	3	-	3	3	3
CO3	3	-	2	-	-	2	3	-	3	-	3
CO4	3	2	2	-	-	-	3	-	3	-	3
CO5	3	-	2	-	-	2	3	-	3	-	3
PO Target	3.00	2.00	2.40	-	-	2.00	3.00	-	3.00	3.00	3.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Snigdha Bhardwaj		Dr. Garima Kapoor	

Signature of Course Coordinator

Assoc./ Asst. Head DOC

Signature of Addtl. HOD

Signature of HOD

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)



- ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs.
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KIET Group of Institutions, Delhi -- NCR, Ghaziabad

Program Name: B. Pharm **KIET School of Pharmacy** **Semester: V**
Course Name: Industrial Pharmacy-I Practical **Academic Session: Odd 2024-25** **Year: III**
Course Outcomes **Course Code: BP506P** **Course Coordinator Name: Dr. Lakshmi**

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Determine various physicochemical parameters of drugs to perform preformulation studies.	PO-1,2,3,4,7,8,10,11	Evaluate	Conceptual, Procedural
CO2	Prepare various dosage forms such as coated tablets, capsules, injections, eye ointments, eye drops and creams.	PO-1,2,3,4,7,8,10,11	Create	Conceptual, Procedural
CO3	Evaluate tablets and capsules on various parameters.	PO-1,2,3,4,7,8,10,11	Evaluate	Conceptual, Procedural


Programme Outcome (PO)											
CO No.	1	2	3	4	5	6	7	8	9	10	11
CO1	3	2	2	1	-	-	1	1	-	1	1
CO2	3	2	3	1	-	-	1	1	-	1	1
CO3	3	1	3	1	-	-	1	1	-	1	1
PO Target	3.00	1.66	2.67	1.00	-	-	1.00	1.00	-	1.00	1.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Lakshmi		Dr. Ashu Mittal	


Signature of Course Coordinator


Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2021 - 22)
 ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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 Group of Institutions, Delhi – NCR, Ghaziabad

Program Name: B. Pharm **Academic Session:** Odd 2024-25 **Year:** III **Semester:** V
Course Name: Pharmacology-II Practical **Course Code:** BP507P **Course Coordinator Name:** Dr. Shardendu Kumar Mishra
Course Outcomes

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)							
CO No.	Statement of Course Outcome										
CO1	Illustrate the effect of drugs on isolated preparations of animal tissues using simulation software.	PO-1,2,4,9,10,11	Analyze	Conceptual, Procedural							
CO2	Determine the pharmacological activity of drugs on animal models, using simulation software.	PO-1,2,4,9,10,11	Apply	Conceptual, Procedural							
CO3	Demonstrate different types of bioassay techniques on animal tissue preparations using simulation software	PO-1,2,4,9,10,11	Apply	Conceptual, Procedural							
Program Outcome (PO)											
CO No.	1	2	3	4	5	6	7	8	9	10	11
CO1	3	1	-	3	-	-	-	-	1	1	3
CO2	3	1	-	2	-	-	-	-	1	1	2
CO3	3	1	-	3	-	-	-	-	1	1	2
PO Target	3.00	1.00	-	2.67	-	-	-	-	1.00	1.00	2.3

Faculty Members Teaching the Course	Faculty Members Teaching the Course
1. Dr. Shardendu Kumar Mishra Signature of Course Coordinator	2. Dr. Abhishek Kumar Signature of Addl. HoD

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)
 ❖ The theory courses/ project having credits 3 to 6 should have 5 amount of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 amount of COs. The Project having 7 to 12 credits should have 6 to 10 amount 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 Group of Institutions, Delhi – NCR, Ghaziabad

Program Name: B. Pharm **Academic Session:** Odd 2024-25 **Year:** III **Semester:** V
Course Name: Pharmacognosy-II **Course Code:** BP508P **Course Coordinator Name:** Dr. Daksh Bhatia
Course Outcomes

KIET School of Pharmacy

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Acquire the knowledge of the morphology and microscopy of crude drugs.	PO-1,4,6,11	Apply	Conceptual & Procedural
CO2	Compare various methods for extraction and isolation of phytoconstituents.	PO-1,2,3,4,6,10, 11	Evaluate	Conceptual & Procedural
CO3	Analyze the specified phytoconstituents utilizing the standardized parameters.	PO-1,2,3,4,6,7,11	Analyze	Conceptual & Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	-	-	-	1	-	2	-	-	-	-	1
CO2	2	2	2	2	-	2	-	-	-	2	2
CO3	2	2	2	2	-	2	2	-	-	-	2
PO Target	3.00	2.00	2.00	1.67	-	2.00	2.00	-	-	2.00	1.6

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Daksh Bhatia		Dr. Richa Goel	

Signature of Course Coordinator



Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

- ❖ Please Note (Reference: OBE Guidelines wcf. Session 2021 – 22)
- ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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 Group of Institutions, Delhi – NCR, Ghaziabad

Program Name: B. Pharm **KIET School of Pharmacy**
Course Name: Hospital Training-I **Academic Session: Odd 2024-25**
Year: III
Semester: V
Course Coordinator Name: Kapil Sachan
Course Code: BP-509P

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Illustrate the application and utilization of first aid (wound dressing, artificial respiration etc.).	PO-1,2, 3,4,6,7,9,11	Apply	Conceptual, Procedural
CO2	Apply different routes of injection on patients.	PO-1,3,4,6,7,9,11	Apply	Procedural
CO3	Interpret the patient observation charts, prescriptions and dispensing, simple diagnostic reports, etc.	PO-1,2,3,4,6,7,9,11	Evaluate	Conceptual, Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	3	2	3		2	3		2		3
CO2	3	2	3	3		2	3		2		3
CO3	3	3	2	3		2	3		2		3
PO Target	3.00	3.00	2.00	3.00		2.00	3.00		2.00		3.00

Faculty Members Teaching the Course	Signature
Mr. Kapil Sachan	<i>Kapil Sachan</i>

Kapil Sachan

Signature of Course Coordinator

Rishi

Assoc./ Asst. Head DOC

Tomy

Signature of Addl. HoD

Kapil Sachan

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)

- ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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 Group of Institutions, Delhi – NCK, Ghaziabad

KIET School of Pharmacy

Program Name: B. Pharm Academic Session: Odd 2024-25 Year: IV Semester: VII
 Course Name: Instrumental Methods of Analysis Course Code: BP701T Course Coordinator Name: Dr. Lalit Mohan Nainwal

Course Outcomes

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Examine the principle, instrumentation and pharmaceutical applications of UV radiations with drugs.	PO-1, 3, 4, 6, 7, 11	Analyze	Factual, Conceptual
CO2	Explore the principle, instrumentation and applications of vibrational spectrophotometric drug analysis.	PO-1, 3, 4, 6, 7, 11	Analyze	Factual, Conceptual
CO3	Illustrate the principle and applications of basic chromatographic separation techniques in drug analysis.	PO-1, 2, 3, 4, 6, 7, 11	Apply	Factual, Conceptual
CO4	Describe the principle, instrumentation and applications of gas and liquid chromatographic separation in drug analysis.	PO-1, 2, 3, 4, 6, 7, 10, 11	Understand	Factual, Conceptual
CO5	Explain the principle and applications of ion exchange, gel and affinity chromatographic techniques.	PO-1, 2, 3, 4, 6, 7, 10, 11	Understand	Factual, Conceptual

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3		3	3		2	2				
CO2	3		3	3		2	2				
CO3	3	3	3	3		2	2				
CO4	3	3	3	3		2	2			2	3
CO5	3	3	3	3		2	2			2	3
PO Target	3.00	3.00	3.00	3.00		2.00	2.00			2.00	3.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Prof. (Dr.) K. Nagarajan		Dr. Lalit Mohan Nainwal	
Ms. Shipra Singhal			

Signature of Course Coordinator

Assoc./ Asst. Head DOC

Signature of Addl. HoD

Signature of HoD

Please Note (Reference: OBE Guidelines w.e.f. Session 2021 – 22)
 ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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 Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy



Program Name: B. Pharm
 Course Name: Industrial Pharmacy-II (Theory)
 Course Outcomes



Semester: VI/
 Year: IV
 Course Coordinator Name: Mr. Balwan Singh

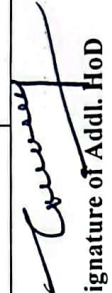

Academic Session: Odd 2024-25
 Course Code: BP702T

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Explain pilot plant scale up techniques, SUPAC guidelines and platform technology in perspective of Indian Pharmaceutical setup	PO-1, 2, 3, 7, 11	Understand	Factual, Conceptual
CO2	Categorize various terminologies, 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	PO-1, 3, 7, 11	Analyze	Factual, Conceptual
CO3	Assess regulatory affairs and various regulatory requirements for drug approval in context with regulatory framework of Pharma Industry	PO-1, 3, 6, 7, 11	Evaluate	Factual, Conceptual
CO4	Outline different aspects of Quality Management System in the capacity of quality product development.	PO-1, 3, 6, 7, 11	Analyze	Factual, Conceptual
CO5	Examine Indian Regulatory Requirements and approval process for new drugs.	PO-1, 3, 6, 7, 11	Apply	Factual, Conceptual

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	3	2	-	-	-	3	-	-	-	3
CO2	3	-	3	-	-	-	3	-	-	-	3
CO3	3	-	2	-	-	3	3	-	-	-	3
CO4	3	-	3	-	-	2	3	-	-	-	3
CO5	3	-	2	-	-	2	3	-	-	-	3
PO Target	3.00	3:00	2.4	-	-	2.33	3	-	-	-	3.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Mr. Balwan Singh		Ms. Vidhu Saxena	

Signature of Course Coordinator:  Assoc./ Asst. Head DOC: 

Signature of Addl. HoD:  Signature of HoD: 

Please Note (Reference: OBE Guidelines w/ Session 2021 – 22)

- The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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.

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Acquire the basic knowledge of hospital organization, establishments of wholesale retail drug store and role of pharmacist in hospital specifically in ADR monitoring.	PO-1,2,3,4,6,7,8,9,11	Apply	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.	PO-1,2,3,4,6,7,8,9,11	Analyze	Factual & Conceptual
CO3	Review the pharmacy policies and therapeutic committee to maintain the drug safety and medication error.	PO-1,2,3,6,7,8,9,11	Understand	Factual, Conceptual & Procedural
CO4	Illustrate the implementation of new budget in pharmacy and rational use of OTC medications.	PO-1,2,3,6,7,8,9,11	Analyze	Factual, Conceptual & Procedural
CO5	Evaluate various methods of estimation of blood compositions and urine in clinical set-up.	PO-1,2,3,4,6,7,8,9,11	Evaluate	Factual, Conceptual & Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	2	2	1	-	3	2	2	3	-	2
CO2	3	2	2	1	-	3	2	2	3	-	2
CO3	3	2	2	-	-	2	2	3	3	-	2
CO4	3	2	2	-	-	3	2	2	2	-	2
CO5	3	2	3	1	-	3	2	1	2	-	2
PO Target	3.00	2.00	2.20	1.00	-	2.80	2.00	2.00	2.60	-	2.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
1. Ms. Priya Bansal		2. Dr. Shardendu Kumar Mishra	

Signature of Course Coordinator

Assoc./ Asst. Head DOC

Signature of Addl/HoD

Signature of HoD

Course Outcomes

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Understand basic concepts related to Controlled drug delivery systems.	PO-1,2,3, 9, 10, 11	Understand	Factual, Conceptual
CO2	Understand the concept and preparation of mucosal drug delivery systems, microcapsules, and implants.	PO-1,2,3,9,11	Understand	Factual, Conceptual
CO3	Examine various approaches for development of Transdermal Drug delivery systems, Gastroretentive drug delivery systems and nasopulmonary drug delivery systems.	PO-1,2,3,4,9,11	Apply	Factual, Conceptual
CO4	Apply different methods for development of targeted drug delivery systems for various drugs.	PO-1,2,3,10,11	Apply	Factual, Conceptual
CO5	Apply ocular and intravitreal drug delivery systems for various medical conditions.	PO-1,2,3,9, 10,11	Apply	Factual, Conceptual

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	2	1	-	-	-	-	-	1	1	1
CO2	3	2	1	-	-	-	-	-	1	-	1
CO3	3	3	2	1	-	-	-	-	1	-	1
CO4	3	3	3	-	-	-	-	-	-	2	1
CO5	3	3	2	-	-	-	-	-	2	1	1
PO Target	3	2.6	1.8	1	-	-	-	-	1.25	1.33	1

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
1.Prof. N.G. Raghendra Rao		2.Dr. Lakshmi	

Signature of Course Coordinator

Assoc./ Asst. Head DOC

Signature of Addl. HoD

Signature of HoD

KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy

Program Name: B. Pharm

Academic Session: 2024-25

Year: IV **Semester:** VII

Course Name: Instrumental Method of Analysis Practical

Course Code: BP705P

Course Coordinator Name: Shipra Singhal

Course Outcomes

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Analyze the absorption maxima and effect of solvents in different organic compounds/drugs by using different spectroscopic techniques.	PO-1,2,3,4,5,6,7,8,10,11	Analyze	Conceptual, Procedural
CO2	Characterize the different drug samples using HPLC, Gas chromatography and flame photometry.	PO-1,2,3,4,5,6,7,8,10,11	Analyze	Conceptual, Procedural
CO3	Illustrate the process of separation of various compounds using different chromatographic techniques.	PO-1,2,3,4,5,6,8,11	Analyze	Conceptual, Procedural

Programme Outcome (PO)

CO No.	1	2	3	4	5	6	7	8	9	10	11
CO1	3	1	1	3	1	2	2	2	-	2	1
CO2	3	1	1	3	1	2	2	2	-	2	1
CO3	3	1	1	3	1	2	-	2	-	-	1
PO Target	3.00	1.00	1.00	3.00	1.00	2.00	2.00	2.00	-	2.00	1.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
1. Dr. Lalit Nainwal		2. Ms. Shipra Singhal	

Signature of Course Coordinator

Assoc./ Asst. Head DOC

Signature of Addl HoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)

- ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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

KIET Group of Institutions, Delhi – NCR, Ghaziabad


KIET School of Pharmacy

Program Name: B. Pharm Academic Session: Odd 2024-25 Year: IV Semester: VII
 Course Name: Practice School Course Code: BP706PS Course Coordinator Name: Mr. Debaprasad Ghosh

Course Outcomes

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Understand the rationale behind practice school in a specific thrust area of pharmacy.	PO-1,2,3,5,6,8,10,11	Understand	Factual & Conceptual
CO2	Acquire expertise in data mining, reviewing, and processing for a particular thrust area.	PO-1,2,3,4,5,6,7,8,10,11	Apply	Factual, Conceptual & Procedural
CO3	Apply the technology or development of new strategies to cater the needs of PS students and thereby examine the potential role of new findings and their conversion into suitable outcomes.	PO-1,2,3,4,5,6,7,8,9,10,11	Apply	Conceptual & Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1		2			1	1		1			
CO2	3	2	2	3	1	1	3	1		2	3
CO3	3	2	2	3	1	1	3	1	2	2	3
PO Target	3.00	2.00	2.00	3.00	1.00	1.00	3.00	1.00	2.00	2.00	3.00

Faculty Members Teaching the Course	Signature
Mr. Debaprasad Ghosh	


 Signature of Course Coordinator


 Assoc./ Asst. Head DOC


 Signature of Addl. HoD


 Signature of HoD

- ❖ Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)
 The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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 Group of Institutions, Delhi – NCR, Ghaziabad

Program Name: B. Pharm **KIET School of Pharmacy** **Semester: VII**
Course Name: Report on Hospital/ Industrial Training **Academic Session: Odd 2024-25** **Year: IV**
Course Outcomes **Course Code: BP707P** **Course Coordinator Name: Ms. Vidhu Saxena**

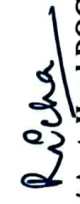
After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Extrapolate the different sections and different departments, rules and regulations of pharmaceutical industry/ CRO/ Hospital Pharmacy/ Clinical Pharmacy	PO-1,2,3,4,6, 7,8,9,10,11	Understand	Factual, Conceptual Procedural
CO2	Explore the roles and responsibilities of pharmaceutical industry/ CRO/ Hospital Pharmacy/ Clinical Pharmacy	PO-1,2,3,4,6, 7,8,9,10,11	Apply	Factual, Conceptual
CO3	Document the day-to-day learning as received in pharmaceutical industry/ CRO/ Hospital Pharmacy/ Clinical Pharmacy	PO-1,2,4, 6, 8,9,10,11	Analyze	Conceptual, Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	1	1	3		1	2	1	1	1	3
CO2	3	1	1	3		1	3	1	1	1	3
CO3	3	1		3		3		3	1	1	2
PO Target	3.00	1.00	1.00	3.00		1.67	2.50	1.67	1.00	1.00	2.67

Faculty Members Teaching the Course	Signature
Ms. Vidhu Saxena	



Signature of Course Coordinator



Assoc./ Asst. Head DOC



Signature of Addl. HoD



Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)

- ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs.
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KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy



Semester: VII
Course Coordinator Name: Ms. Nidhi

Academic Session: Odd 2024-25
Year: IV

Program Name: B. Pharm
Course Name: AI tools and Corporate Quality Skills
Course Code: KEVA708T
Course Outcomes

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Understand the role of AI in healthcare	PO-1,2,3,4,7,11	Understand	Factual and Conceptual
CO2	Apply AI tools and technologies for healthcare.	PO-1,2,3,4,7,11	Apply	Factual and Conceptual
CO3	Demonstrate effective verbal, non-verbal, and written communication skills in professional settings. Apply strategies for: relationship-building, teamwork, and conflict resolution in professional settings	PO- 1,2,3, 5, 6, 8, 11	Apply	Factual and Conceptual
CO4	Develop emotional intelligence and adaptability skills for various professional scenarios.	PO-2,3, 5, 6, 8, 11	Create	Factual and Conceptual
CO5	Prepare for and perform effectively for job interviews, exhibit workplace professionalism, and deliver effective presentations.	PO-2,5,6, 8, 11	Create	Factual and Conceptual

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1		1	2	2	-	-	2	-	-	-	1
CO2		3	2	3	-	-	2	-	-	-	1
CO3		2	2	-	3	3	-	3	-	-	1
CO4		2	2	-	3	3	-	3	-	-	1
CO5		2	-	-	3	3	-	3	-	-	1
PO Target	2.00	2.00	2.00	1.50	3.00	3.00	2.00	3.00	-	-	1.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Ms. Nidhi		Ms. Surbhi Kamboj	


Signature of Course Coordinator


Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)

- ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs.
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KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy

Program Name: B. Pharm

Academic Session: Odd 2024-25

Semester: VII

Course Name: AI tools and Corporate Quality Skills



Course Code: KEVA709P

Course Coordinator Name: Ms. Surbhi Kamboj

Course Outcomes

After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Apply various technology and AI tools in healthcare and pharmaceutical settings.	PO-1,2,3,4,7,8,9,11	Apply	Procedural and Conceptual
CO2	Discuss communication skills, excel in interpersonal interactions, and work well within a team.	PO-1,2,3,5,6,8,11	Understand	Procedural and Conceptual
CO3	Interact effectively in interviews and demonstrate professionalism in their interactions.	PO-2,3, 5, 6, 8, 11	Understand	Procedural and Conceptual

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1		2	3	3			3	1	3		1
CO2	1	2	3		3	3		3			1
CO3		2	3		3	3		3			1
PO Target	1.5	2.00	3.00	3.00	3.00	3.00	3.00	2.33	3.00		1.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Ms. Nidhi, Ms. Vidhu Saxena, Ms. Surbhi Kamboj, Ms. Sheena		Ms. Nidhi, Ms. Vidhu Saxena, Ms. Surbhi Kamboj, Ms. Sheena	

Surbhi

Signature of Course Coordinator

Rishu

Assoc./ Asst. Head DOC

Sheena

Signature of Addl. HoD

Alia

Signature of HoD

Please Note (References: OBE Guidelines wef. Session 2021 – 22)


- ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs.
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KIET Group of Institutions, Delhi – NCR, Ghaziabad


Program Name: B. Pharm **KIET School of Pharracy** **Year: IV** **Semester: VII**
Course Name: Python Programming Lab **Academic Session: Odd 2024-25** **Course Coordinator Name: Dr. Piyush Pant**
Course Code: KEVA710P **Course Outcomes**

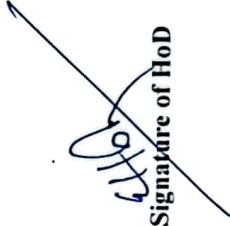
After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Understand numbers, strings and data structures in python.	PO-1,4,11	Understand	Conceptual
CO2	Apply conditional statement and functions in Python.	PO-1,4,11	Apply	Procedural
CO3	Apply graphical demonstration in Python.	PO-1,4,11	Apply	Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1				3							
CO2				3							
CO3				3							
PO Target	1.00			3.00							2.00

Faculty Members Teaching the Course	Signature
Dr. Piyush Pant	

 **Richa**
 Assoc./ Asst. Head DOC

 **Piyush Pant**
 Signature of Addl. HoD

 **HoD**
 Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2021 – 22)

- ❖ The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial training having credits less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 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