

KIET Group of Institutions, Delhi – NCK, Ghaziabad

Program Name: B. Pharm
Course Name: HAP-II
Course Outcomes



KIET School of Pharmacy
Academic Session: Even 2023-24
Course Code: BP201T

Year: I

Semester: II
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	Understand the anatomy and physiology of the Nervous system.	1, 6, 9, 11	Understand	Factual & Conceptual
CO2	Illustrate anatomy and physiology of Digestive System and energetics (ATP, Creatinine Phosphate).	1, 6, 9, 11	Apply	Factual & Conceptual
CO3	Explore the structure and functions of Respiratory System and Urinary System.	1, 6, 9, 11	Analyze	Factual & Conceptual
CO4	Illustrate the anatomical and physiological aspects of the Endocrine System.	1, 6, 9, 11	Apply	Factual & Conceptual
CO5	Infer the structural and functional aspects of Reproductive System and Genetics	1, 6, 9, 11	Analyze	Factual & Conceptual

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

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Praveen K. Dixit		Mrs. Priya Bansal	


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: Even 2023-24

Year: I

Semester: II

Course Name: P. Organic Chemistry-I



Course Code: BP202T

Course Coordinator Name: Dr. Abhay Bhardwaj

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 chemistry and isomerism of Organic Compounds.	1, 3, 4,6,7,9,11	Apply	Factual & Conceptual
CO2	Illustrate the chemistry and applications of Alkanes, Alkenes and Conjugated dienes.	1, 3, 4,6,7,9,11	Apply	Factual & Conceptual
CO3	Understand the chemistry and applications of Alkyl halide and Alcohols	1,3,4,6,7,9,11	Apply	Factual & Conceptual
CO4	Understand about chemistry and applications of Carbonyl compounds.	1, 3, 4,6,7,9,11	Apply	Factual & Conceptual
CO5	Describe chemistry and applications of Carboxylic acids and Amines.	1, 3, 4,6,7,9,11	Apply	Factual & Conceptual

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

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Abhay Bhardwaj		Dr. Smriti	


Signature of Course Coordinator


Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

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

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KIET Group of Institutions, Delhi – NCR, Ghaziabad



Program Name: B. Pharm
Course Name: Biochemistry
Course Outcomes

KIET School of Pharmacy
Academic Session: Even 2023-24
Course Code: BP203T

Year: I **Semester: II**
Course Coordinator Name: Pragati Gupta

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 the concepts of biomolecules and bioenergetics.	1,10,11	Apply	Factual & Conceptual
CO2	Explore the knowledge of carbohydrate metabolism and biological oxidation and underlying diseases.	1,9,10,11	Apply	Factual & Conceptual
CO3	Analyze the concepts of lipid and amino acid metabolism and their role in various diseases.	1,6,9,10,11	Analyze	Factual & Conceptual
CO4	Illustrate the concept of nucleic acid metabolism and transfer of genetic information.	1,3,4,6,9,10,11	Analyze	Factual & Conceptual
CO5	Classify various types of enzymes and their role as diagnostic and therapeutic applications	1,2,3,4,6,7,8,10,11	Analyze	Conceptual & Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	-	-	-	-	-	-	-	-	1	2
CO2	3	-	-	-	-	-	-	-	2	1	2
CO3	3	-	-	-	-	1	-	-	2	1	2
CO4	3	-	3	2	-	2	-	-	2	1	2
CO5	3	1	1	1	-	1	1	2	1	1	2
PO Target	3.00	1.00	2.00	1.50	-	1.33	1.00	2.00	1.75	1.00	2.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Ms. Pragati Gupta		Mr. Surya Prakash	




Signature of Course Coordinator



Assoc./ Asst. Head DOC



Signature of Addl. HoD



Signature of HoD

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KIET Group of Institutions, Delhi – NCK, Ghaziabad

KIET School of Pharmacy



Program Name: B. Pharm
Course Name: Pathophysiology
Course Outcomes

Academic Session: Even 2023-24
Course Code: BP204T

Year: I Semester: II
Course Coordinator Name: Dr. Roma Ghai

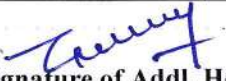
After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Understand the basic mechanisms involved in the process of injury and inflammation.	1, 11	Understand	Factual & Conceptual
CO2	Illustrate the pathological mechanisms involved in the development of cardiovascular, renal, and respiratory diseases.	1,9,11	Apply	Factual & Conceptual
CO3	Explore the mechanisms of development of diseases associated with the blood, endocrine, nervous, and gastrointestinal systems.	1,9,11	Analyze	Factual & Conceptual
CO4	Illustrate the development and progression of inflammatory diseases along with cancer.	1,9,11	Apply	Factual & Conceptual
CO5	Infer the etiology and pathogenesis of infectious and sexually transmitted diseases.	1,9,11	Analyze	Factual & Conceptual


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

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Roma Ghai		Dr. Praveen Kumar Dixit	


Signature of Course Coordinator


Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

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KIET Group of Institutions, Delhi – NCK, Ghaziabad

KIET School of Pharmacy

Program Name: B. Pharm

Academic Session: Even 2023-24

Year: I

Semester: II

Course Name: Computer Applications in Pharmacy

Course Code: BP205T


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	Understand the concept of number systems and information systems.	3,4,8,11	Understand	Factual & Conceptual
CO2	Interpret various web technologies and databases.	1,2,3,4,5,10,11	Evaluate	Factual & Conceptual
CO3	Illustrate the various types of application of computers in pharmacy.	1,2,3,4,5,6,7,8,11	Apply	Factual & Conceptual
CO4	Explore the objective, concept, and impact of Bioinformatics	1,2,3,4,6,7,8,9,11	Analyze	Factual & Conceptual
CO5	Acquire the application of computers in data analysis in Preclinical development.	1,2,3,4,5,6,7,8,10,11	Apply	Conceptual & Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	-	-	2	3	-	-	-	2	-	-	3
CO2	2	2	2	3	2	-	-	-	-	2	3
CO3	3	3	2	3	2	2	3	3	-	-	3
CO4	3	2	2	3	-	2	3	2	3	-	3
CO5	3	3	2	2	2	2	2	2	-	2	2
PO Target	2.75	2.5	2	2.8	2	2	2.6	2.25	3	2	2.8

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Ms. Sakshi Garg			


Signature of Course Coordinator


Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

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KIET Group of Institutions, Delhi – NCK, Ghaziabad

KIET School of Pharmacy

Program Name: B. Pharm

Academic Session: Even 2023-24

Year: I

Semester: II

Course Name: Environmental Sciences

Course Code: BP206T



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	Understand the concept of environmental studies with its natural resources.	2,3,5,6,7,8,9,10,11	Understand	Factual & Conceptual
CO2	Determine the concept of ecosystem and its structural and functional components with its classification.	2,3,5,6,7,8,9,10,11	Understand	Conceptual
CO3	Illustrate the concept of environmental pollution, its impacts and mitigation measures.	2,3,5,6,7,8,9,10,11	Analyze	Conceptual & Factual

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

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

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KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy

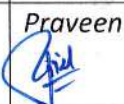

Program Name: B. Pharm
Course Name: HAP-II (Practical)
Course Outcomes

Academic Session: Even 2023-24
Course Code: BP207P

Year: I Semester: II
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	Understand the anatomy and physiology of CNS, Digestive system, Respiratory system, urinary system, endocrine system and reproductive system using models and charts.	1,8,11	Understand	Conceptual
CO2	Illustrate the practical aspects related to reflex activity, body temperature recording, lung capacities, BMI and their importance.	1,8,9,11	Apply	Conceptual, Procedural
CO3	Understand the different mechanisms of responses related to sense organs and nervous system.	1,8,11	Understand	Conceptual

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

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Praveen Kumar Dixit		Mrs. Priya Bansal	


Signature of Course Coordinator


Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

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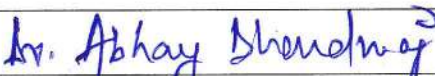
KIET Group of Institutions, Delhi – NCR, Ghaziabad

Program Name: B. Pharm
Course Name: Organic Chemistry Practical
Course Outcomes

KIET School of Pharmacy
Academic Session: Even 2023-24 Year: I Semester: II
Course Code: 208 P Course Coordinator Name: Dr. Smriti Sahu

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	Create hands-on laboratory skills necessary for performing organic chemistry experiments, including proper handling of laboratory equipment and adherence to safety protocols.	1,2,3, 4,6,7,8,9,10,11	Create	Conceptual & Procedural
CO2	Apply Synthetic Techniques to prepare pharmaceutical compounds, gaining proficiency in common laboratory procedures for the synthesis of organic molecules.	1,2,3, 4,6,7,9,10,11	Apply	Conceptual & Procedural
CO3	Explore methods for the isolation and purification of organic compounds, including techniques such as extraction, distillation, and chromatography.	1,2,3, 4,6,7,8,9,10,11	Apply	Conceptual & Procedural

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

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Smriti Sahu		Dr. Abhay Shrivastava	


 Signature of Course Coordinator


 Assoc./ Asst. Head DOC


 Signature of Addl. HoD


 Signature of HoD

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KIET Group of Institutions, Delhi – NCK, Ghaziabad



Program Name: B. Pharm
Course Name: Biochemistry
Course Outcomes

KIET School of Pharmacy
Academic Session: Even 2023-24 **Year: I**
Course Code: BP209P

Semester: II
Course Coordinator Name: Surya Prakash

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 different carbohydrates, proteins, and abnormal constituents of urine.	1,2,3,4,6,7,,9,10,11	Analyze	Conceptual & Procedural
CO2	Estimation of blood creatinine, Salivary amylase, blood sugar and serum total cholesterol.	1,2,3,4,6,7,,9,10,11	Analyze	Conceptual & Procedural
CO3	Quantitative analysis of reducing sugars (DNSA method) and Proteins	1,2,3,4,6,7,,9,10,11	Evaluate	Conceptual & Procedural

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

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Surya Prakash		Pragati Gupta	


 Signature of Course Coordinator


 Assoc./ Asst. Head DOC


 Signature of Addl. HoD


 Signature of HoD

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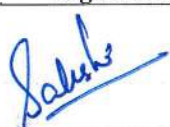
KIET Group of Institutions, Delhi – NCR, Ghaziabad

Program Name: B. Pharm/M. Pharm
Course Name: Computer Applications in Pharmacy
Course Outcomes

KIET School of Pharmacy
Academic Session: Even 2023-24 **Year: I** **Semester: II**
Course Code: BP210 P **Course Coordinator Name: Ms. Sakshi Garg**

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 the knowledge of computing fundamentals to pharmaceutical applications for any given requirement.	1,2,3,4,6,8,9,11	Apply	Factual and Conceptual
CO2	Analyse the contemporary IT tools(web technologies and databases) with Pharmaceutical activities.	1,2,3,4,5,6,7,9,10,11	Analyze	Procedural
CO3	Interpret the various application of databases in pharmacy.	1,4,6,7,8,9,10,11	Understand	Procedural and Conceptual

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	2	2	2	-	2	-	3	2	-	3
CO2	3	2	2	3	2	2	2	-	2	2	3
CO3	3	-	-	2	-	2	2	2	3	2	3
PO Target	3	2	2	2.3	2	2	2	2.5	2.3	2	3

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Ms. Sakshi Garg			


 Signature of Course Coordinator


 Assoc./ Asst. Head DOC


 Signature of Addl. HoD


 Signature of HoD

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KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy

Program Name: B. Pharm

Academic Session: Even 2023-24

Year: II

Semester: IV

Course Name: Pharmaceutical Organic Chemistry-III



Course Code: BP401T

Course Coordinator Name: Ms. Shipra Singhal

Course Outcomes

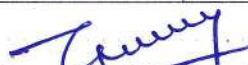
After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Illustrate about Stereo isomerism, Optical isomerism.	1, 2, 3, 7, 11	Apply	Factual & Conceptual
CO2	Illustrate about Geometrical isomerism and Conformational isomerism.	1, 2, 3, 7, 11	Apply	Factual & Conceptual
CO3	Outline the nomenclature, classification, synthesis and reaction of some heterocyclic compounds.	1, 2, 3, 6, 7, 9, 11	Apply	Conceptual
CO4	Summarize the Synthesis, reactions and medicinal uses of some heterocyclic compounds.	1, 2, 3, 7, 9, 11	Apply	Conceptual
CO5	Outline some important synthetic name reactions.	1, 2, 3, 7, 9, 11	Apply	Conceptual

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

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


Signature of Course Coordinator


Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

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KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy

Program Name: B. Pharm

Academic Session: Even 2023-24

Year: II

Semester: IV

Course Name: Medicinal Chemistry -I Theory

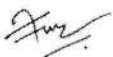

Course Code: BP402T

Course Coordinator Name: Dr. Lalit Mohan Nainwal

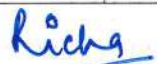
Course Outcomes

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	Understand basics of medicinal chemistry, physicochemical and stereochemical properties in relation to drug design and drug metabolism.	1, 2, 3, 6, 7, 9, 10, 11	Understand	Factual and Conceptual
CO2	Explore the chemistry of drugs acting on adrenergic system.	1, 2, 3, 6, 7, 9, 10, 11	Apply	Factual and Conceptual
CO3	Explore the chemistry of drugs acting on cholinergic system.	1, 2, 3, 6, 7, 9, 10, 11	Apply	Factual and Conceptual
CO4	Illustrate the chemistry of drugs acting on CNS such as sedative, hypnotics, antipsychotics and anticonvulsants.	1, 2, 3, 6, 7, 9, 10, 11	Apply	Conceptual
CO5	Explain the chemistry of general anesthetics, narcotic & non-narcotic analgesics and anti-inflammatory agents	1, 2, 3, 6, 7, 9, 10, 11	Apply	Conceptual

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	1	1	-	-	3	3	-	3	2	3
CO2	3	1	1	-	-	3	1	-	3	1	2
CO3	3	1	1	-	-	3	1	-	3	1	2
CO4	3	1	1	-	-	3	1	-	3	1	2
CO5	3	1	1	-	-	3	1	-	3	1	2
PO Target	3	1	1	-	-	3	1.4	-	3	1.2	2.2

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Lalit Mohan Nainwal		Ms. Shipra	


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

Course Name: Physical Pharmaceutics-II Theory

Course Outcomes

KIET School of Pharmacy

Academic Session: Even 2023-24

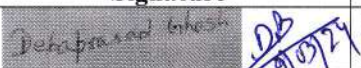

Course Code: BP403T

Year: II Semester: IV

Course Coordinator Name: Mr. Debaprasad Ghosh

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 types, general characteristics, and effect of various factors on Colloidal dispersions.	1, 3, 4.	Apply	Factual, Procedural.
CO2	Identify the rheological behavior of fluids and the principles of deformation of solids.	1, 3, 4, 11.	Analyze	Conceptual, Procedural.
CO3	Analyze the theories, types, various properties, and stability of Coarse dispersions like suspensions and emulsions.	1, 3, 4, 11.	Analyze	Conceptual, Procedural.
CO4	Analyze various aspects of micrometrics.	1, 3, 4.	Analyze	Conceptual, Procedural.
CO5	Analyze the effects of kinetics, degradation factors and common reactions on the stability of drugs including accelerated stability studies and their prevention.	1, 2, 3, 4, 6, 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		2	3							
CO2	3		2	3							2
CO3	3		2	2							2
CO4	3		2	3							
CO5	3	2	2	3		2	2	2	2	2	2
PO Target	3.00	2.00	2.00	2.80		2	2	2	2	2	2.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Mr. Debaprasad Ghosh		Prof. (Dr.) N.G. Raghavendra 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

KIET School of Pharmacy


Program Name: B. Pharm
Course Name: Pharmacology-I
Course Outcomes

Academic Session: Even 2023-24
Course Code: BP404T

Year: II
Course Coordinator Name: Dr. Shardendu Kumar Mishra
Semester: IV


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 concept of general pharmacology and pharmacokinetics.	1,3,6,7,8,9,11	Apply	Factual & Conceptual
CO2	Analyze the mechanism of action of drugs, related adverse drug reaction, and drug interactions.	1,3,6,7,8,9,11	Analyze	Factual & Conceptual
CO3	Apply the implications of peripheral nervous system in treatment of associated diseases.	1,3,6,7,8,9,11	Apply	Conceptual & Procedural
CO4	Apply the implications of central nervous system in treatment of neurological diseases.	1,3,6,7,8,9,11	Apply	Factual & Conceptual
CO5	Audit the significance of drugs in pharmacotherapy of various diseases and management of adverse effects.	1,3,6,7,8,9,11	Analyze	Conceptual & Procedural


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

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Shardendu Kumar Mishra			


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, Gaziabad

KIET School of Pharmacy

Program Name: B. Pharm

Academic Session: Even 2023-24

Year: II

Semester: IV

Course Name: Pharmacognosy & Phytochemistry I

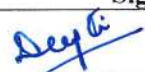
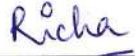
Course Code: BP 405T

Course Coordinator Name: Dr. Deepti Katiyar

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	Appraise the sources, classification and quality control of herbal drugs.	1, 11	Evaluate	Factual, Conceptual & Procedural
CO2	Attain the knowledge of the cultivation & production of crude drugs and conservation of medicinal plants.	1, 3, 7, 10, 11	Apply	Factual; Conceptual & Procedural
CO3	Illustrate the concepts of Plant Tissue Culture and to describe properties of edible vaccines.	1, 3, 4, 10, 11	Analyze	Conceptual & Procedural
CO4	Acquire the knowledge of traditional systems of medicine and to summarize properties of various secondary metabolites.	1, 3, 6, 11	Apply	Factual & Conceptual
CO5	Explore the properties and applications of plant fibers, hallucinogens, carbohydrates, lipids, proteins, enzymes and marine products.	1, 3, 6, 11	Analyze	Factual & Conceptual

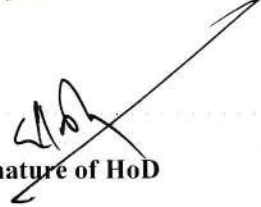
CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3										2
CO2	3		2				2			2	2
CO3	3		2	3						2	2
CO4	3		2			2					2
CO5	3		2			2					2
PO Target	3.00		2.00	3.00		2.00	2.00			2.00	2.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Deepti Katiyar		Dr. Richa Goel	

 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, Gaziabad

KIET School of Pharmacy

Program Name: B. Pharm

Academic Session: Even 2023-24

Year: II Semester: IV

Course Name: Medicinal Chemistry-I Practical



Course Code: BP406P

Course Coordinator Name: Ms. 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	Illustrate the synthesis of some heterocyclic drugs or intermediates.	1, 2, 3, 4, 6, 7, 8, 9, 10, 11	Apply	Conceptual & Procedural
CO2	Analyze the purity of some heterocyclic drugs.	1, 2, 3, 4, 6, 7, 8, 9, 11	Analyze	Conceptual & Procedural
CO3	Analyze the partition coefficient of some drugs.	1, 2, 7, 8, 9, 10	Analyze	Conceptual & Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	2	1	1	-	1	2	2	2	2	3
CO2	3	2	1	1	-	1	3	2	2	-	3
CO3	3	2	-	-	-	-	2	2	2	2	-
PO Target	3	2	1	1	-	1	2.3	2	2	2	3

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Ms. Shipra Singhal		MS. SHIKHA KAUSHIK/ Mr. Surya Prakash	



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


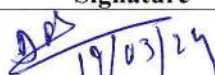
Program Name: B. Pharm
Course Name: Physical Pharmaceutics-II Practical
Course Outcomes


KIET School of Pharmacy
Academic Session: Even 2023-24
Course Code: BP407P

Year: 2nd Semester: IV
Course Coordinator Name: Prof. (Dr.) N. G. R. Rao

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 Particle size, Particle size distribution, and derived properties of the powder.	1, 2, 3, 4, 7, 9, 10, 11	Evaluate	Conceptual and Procedural
CO2	Calculate the viscosity of viscous samples using different methods.	1, 2, 3, 4, 7, 9, 10, 11	Evaluate	Conceptual and Procedural
CO3	Evaluate the prepared suspension and emulsion formulations and kinetics of chemical reactions with stability studies	1, 2, 3, 4, 7, 9, 10, 11	Evaluate	Conceptual and Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	2	2	3			1		1	1	1
CO2	3	2	2	3			1		1	1	1
CO3	3	2	2	3			2		1	1	2
PO Target	3.00	2.00	2.00	3.00			1.3		1.00	1.00	1.3

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Prof. (Dr.) N.G. Raghavendra Rao		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)

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KIET Group of Institutions, Delhi – NCR, Ghaziabad

Program Name: B. Pharm
Course Name: Pharmacology I – Practical
Course Outcomes

KIET School of Pharmacy
Academic Session: Even 2023-24 **Year: II** **Semester: IV**
Course Code: BP408P **Course Coordinator Name: Dr. Vinay 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 instruments and laboratory animals as per CPCSEA guidelines used in experimental pharmacology.	1,2,3,4,6,7,8,9,11	Understand	Conceptual & Procedural
CO2	Understand the different routes of drug administration in mice/rats and various laboratory techniques used for animal studies.	1,2,3,4,6,7,8,9,11	Understand	Conceptual & Procedural
CO3	Understand the effect of enzyme inducers on sleeping time in mice and the effect of drugs on ciliary motility in frogs.	1,2,3,4,6,7,8,9,11	Understand	Conceptual & Procedural
CO4	Understand the role of muscle various drugs acting on CNS and PNS in experimental pharmacology.	1,2,3,4,6,7,8,9,11	Understand	Conceptual & Procedural
CO5	Apply the concept of antiepileptic, anxiolytic activity and study of local anaesthetic agents in rats.	1,2,3,4,6,7,8,9,11	Apply	Conceptual & Procedural


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

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Vinay Kumar			


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: Even 2023-24

Year: II

Semester: IV

Course Name: Pharmacognosy I- Practical


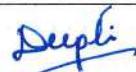
Course Code: BP409P

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	Describe the tools used in quantitative microscopy and understand the concepts behind the procedures used.	1,2,3,4,6,11	Understand	Conceptual & Procedural
CO2	Evaluate the crude drugs on the basis of WHO guidelines.	1,2,3,4,6,7,11	Evaluate	Conceptual & Procedural
CO3	Analyze the specified phytoconstituents utilizing the standardized parameters.	1,2,3,4,6,11	Analyze	Conceptual & Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	2	2	2	2		1					3
CO2	3	3	3	3		3	3				3
CO3	3	3	3	3		3					3
PO Target	2.6	2.6	2.6	2.6		2.3	3				3

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Richa Goel		Dr. Deepti Katiyar	


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, Guaziabad

KIET School of Pharmacy

Program Name: B. Pharm

Academic Session: Even 2023-24

Year: III

Semester: VI

Course Name: Medicinal Chemistry-III

Course Code: BP601T



Course Coordinator Name:

Dr. Garima Kapoor

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 classification, nomenclature, mechanism of action, SAR and uses of different classes of antibiotics.	1, 3, 9, 11	Apply	Conceptual
CO2	Illustrate classification, mechanism of action and SAR of Antimalarials, Anti-tubercular, Urinary tract anti-infective, Antifungal, Anti-protozoal Agents and Anthelmintics.	1, 3, 9, 11	Apply	Conceptual
CO3	Illustrate classification, mechanism of action and SAR of different categories of Antiviral agents.	1, 3, 9, 11	Apply	Conceptual
CO4	Illustrate classification, mechanism of action and SAR of Sulphonamides and Sulfones, Folate reductase inhibitors.	1, 3, 9, 11	Apply	Conceptual
CO5	Analyze the concept of Drug Design, and Combinatorial Chemistry.	1, 3, 4, 6, 9, 11	Analyze	Factual & Conceptual


CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3		2						2		2
CO2	3		2						2		2
CO3	3		2						2		2
CO4	3		2						2		2
CO5	3		3	2		2			2		3
PO Target	3		2.2	2		2			2		2.2

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Garima Kapoor		Dr. Lalit Mohan 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)

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KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy



Program Name: B. Pharm.
Course Name: Pharmacology-III
Course Outcomes

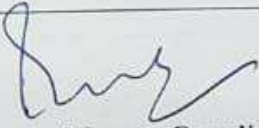
Academic Session: Even 2023-24
Course Code: BP602T

Year: III
Semester: VI
Course Coordinator Name: Dr. Shardendu Kumar Mishra

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 pharmacotherapy of respiratory and GIT diseases.	1,2,4,6,7,8,9,10,11	Apply	Conceptual & Procedural
CO2	Analyze the utility of antimicrobial agents used for curing infections.	1,2,4,6,7,8,9,10,11	Analyze	Conceptual & Procedural
CO3	Illustrate the various mechanisms by which chemotherapeutic agents act and their applications in infection management.	1,2,4,6,7,8,9,10,11	Analyze	Conceptual & Procedural
CO4	Express the pharmacological profiles of anti-microbial agents and immunomodulators.	1,2,4,6,7,8,9,10,11	Apply	Conceptual & Procedural
CO5	Infer the principles of toxicology and chronopharmacology.	1,2,3,4,6,7,8,9,10,11	Analyze	Conceptual & Procedural

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

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Shardendu K Mishra		Dr. Abhishek Kumar	


Signature of Course Coordinator


Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

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

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KIET Group of Institutions, Delhi – NCR, Ghaziabad

Program Name: B. Pharm

Course Name: Herbal Drug Technology – Theory

Course Outcomes

KIET School of Pharmacy

Academic Session: Even 2023-24

Course Code: BP603T

Year: III


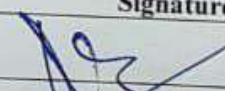
Semester: VI

Course Coordinator Name: Mr. Balwan Singh

After completion of the course, the student will be able to

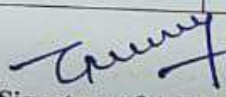
CO No.	Statement of Course Outcome	Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO1	Understand the Indian system of medicines and fundamentals of traditional herbal raw materials from its cultivation to collection with the help of biodynamic agriculture.	1,9,10,11	Understand	Factual, Conceptual
CO2	Explore the demand and need of nutraceuticals in various diseases and their interaction behavior.	1,6, 9,10,11	Analyze	Factual, Conceptual
CO3	Investigate various herbal excipients used in cosmetic formulations.	1,3, 4, 10,11	Analyze	Conceptual, Procedural
CO4	Apply the National and International regulatory guidelines for the assessment of herbal drugs and patenting.	1, 6,7, 8,9,10,11	Apply	Factual, Conceptual
CO5	Explore the Current Good Manufacturing Practices(cGMP) in herbal drug industry.	1,2, 3, 6,7,10,11	Analyze	Factual, Conceptual

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

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Mr. Balwan Singh		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 2023 – 24)
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KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy

Program Name: B. Pharm

Academic Session: Even 2023-24

Year: III

Semester: VI

Course Name: Biopharmaceutics & Pharmacokinetics

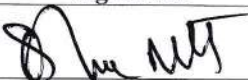

Course Code: BP604T

Course Coordinator Name: Dr. Ashu Mittal

Course Outcomes

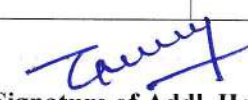
After completion of the course, the student will be able to		Relevant POs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CO No.	Statement of Course Outcome			
CO1	Illustrate the mechanisms and factors of drug absorption and drug distribution.	4	Apply	Factual and Conceptual
CO2	Analyze the processes of drug elimination, bioavailability and bioequivalence.	1, 3, 7, 8, 2	Analyze	Conceptual and procedural
CO3	Appraise the principles of pharmacokinetics in the context of various compartment models, non-compartment models, and physiological models, with a specific emphasis on the one-compartment open model.	1, 3, 4, 6, 9, 11	Evaluate	Conceptual and procedural
CO4	Analyze the principles of pharmacokinetics to comprehend concepts related to multicompartment models.	1, 3, 4, 6, 9, 11	Analyze	Conceptual and procedural
CO5	Demonstrate a comprehensive understanding of nonlinear pharmacokinetics.	1, 3, 4, 6, 9, 11	Apply	Conceptual and procedural

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

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Prof. (Dr.) Ashu Mittal		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.
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KIET Group of Institutions, Delhi – NCR, Ghaziabad

Program Name: B. Pharm.

Course Name: Pharmaceutical Biotechnology

Course Outcomes

KIET School of Pharmacy

Academic Session: Even 2023-24

Course Code: BP605T

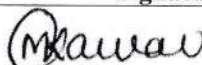

Year: III

Semester: VI


Course Coordinator Name: Dr. Monika Kaurav


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 significance of biotechnology in pharmaceutical products development.	1,9,10,11	Understand	Factual and Conceptual
CO2	Analyze the recombinant DNA technology and its application in pharmaceuticals production.	1,4,6,7,10	Analyze	Conceptual and Procedural
CO3	Demonstrate immunity and various immunological products and their production methods.	1,3,4,6,7,10	Apply	Conceptual and Procedural
CO4	Analyze various immune assay techniques for determination of immunological products.	1,3,4,6,7,10	Analyze	Conceptual and Procedural
CO5	Apply different fermentation techniques in production of various fermentation products.	1,3,4,6,7,10	Apply	Conceptual and Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3			2					2	2	2
CO2	3			2		2	2			3	
CO3	3		2	1		2	2			2	2
CO4	3		2	1		2	2			2	2
CO5	3		2	1		2	2			2	2
PO Target	3		2	1.4		2	2		2	2.2	2

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

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KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy


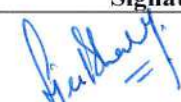
Program Name: B. Pharm
Course Name: Quality Assurance
Course Outcomes

Academic Session: Even 2023-24
Course Code: BP606T

Year: III **Semester: VI**
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	Understand major guidelines and principles related to Quality Assurance and Quality Management.	1,2,4,5,6,7,8,9,10,11	Understand	Factual, Conceptual, Procedural
CO2	Acquire knowledge of GMP guidelines in the pharmaceutical industry.	1,2,3,5,6,7,8,9,10,11	Apply	Factual, Conceptual,
CO3	Select procedures for quality control of packing materials and GLP guidelines	1,2,3,5,6,7,8,9,10,11	Evaluate	Factual, Conceptual, Procedural
CO4	Analyze various documents relevant to the pharmaceutical Industry.	1,2,3,5,6,7,8,9,10,11	Analyze	Factual, Conceptual, Procedural
CO5	Apply general principles of analytical method Validation, calibration, and qualification of commonly used equipment	1,2,3,4,5,6,7,8,9,10,11,	Apply	Factual, Conceptual, Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	2		2	1	1	3	1	2	1	2
CO2	3	2	1		1	1	3	2	2	2	2
CO3	3	2	1		1	1	3	1	2	1	1
CO4	3	2	2		1	1	3	1	2	1	1
CO5	3	2	1	2	1	1	3	1	2	1	1
PO Target	3.00	2.00	1.25	2	1.00	1.00	3.00	1.20	2.00	1.20	1.40

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Lakshmi		Dr. Snigdha	


Signature of Course Coordinator


Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

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

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KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy

Program Name: B. Pharm

Academic Session: Even 2023-24

Year: III

Semester: VI

Course Name: Medicinal Chemistry -III Practical




Course Code: BP607P

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	Prepare intermediate compounds and drugs of medicinal importance	1, 2, 3, 4, 7, 8, 10, 11	Create	Conceptual, Procedural
CO2	Analyze and determine the purity of drug present in the bulk and dosage forms.	1, 2, 3, 4, 7, 8, 11	Analyze	Conceptual, Procedural
CO3	Determine the physicochemical and druglike properties of drugs using drug design softwares (ChemDraw).	1, 2, 3, 4, 6, 7, 8, 9, 11	Evaluate	Conceptual, Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	2	3	2	-	2	3	2	-	3	3
CO2	3	2	3	2	-	-	3	3	-	-	1
CO3	3	3	3	3	-	2	2	2	3	-	3
PO Target	3	2.33	3	2.33	-	2	2.66	2.33	3	3	2.33

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Lalit Mohan Nainwal		Dr. Garima Kapoor		Ms. Pragati	


Signature of Course Coordinator


Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

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

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KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy

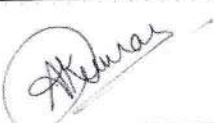

Program Name: B. Pharm
Course Name: Pharmacology-III Practical
Course Outcomes


Academic Session: Even 2023-24
Course Code: BP608P

Year: III **Semester: VI**
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 methods for dose calculation for experimental animals.	1,2,3,7,8,10,11	Understand	Conceptual & Procedural
CO2	Demonstrate the knowledge of experiment design and bioassay process by experimental pharmacology on living tissue and simulation software.	1,2,3,4,7,8,10,11	Apply	Conceptual & Procedural
CO3	Demonstrate the method of biochemical, pharmacokinetic, toxicity studies and biostatistical analysis.	1,2,3,4,7,8,10,11	Apply	Conceptual & Procedural

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


Signature of Course Coordinator


Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

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

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KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy

Program Name: B. Pharm

Course Name: Herbal Drug Technology Practical

Course Outcomes

Academic Session: Even 2023-24

Year: 3



Semester: VI

Course Code: BP609P

Course Coordinator Name: Dr. Daksh Bhatia

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 phytocomposition of crude drugs using various chemical tests.	1,2,3,11	Analyze	Conceptual, Procedural
CO2	evaluate the marketed Ayurvedic/Herbal formulations on various parameters given in pharmacopoeia.	1,2,3,4,11	Evaluate	Conceptual, Procedural
CO3	apply the knowledge of herbs and excipients to develop and evaluate the herbal formulations.	1,2,3,10,11	Create	Conceptual, Procedural
CO4	perform the analysis and evaluation of crude drugs on the basis of pharmacopoeial standards.	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	2								2
CO2	3	2	2	3							2
CO3	3	2	2							2	2
CO4	3	2	2	3							2
PO Target	3	2	2	3						2	2

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Daksh Bhatia		BALWAN SINGH	

Signature of Course Coordinator

Assoc./ Asst. Head DOC

Signature of Addl. HoD

Signature of HoD

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KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy



Program Name: B. Pharm
 Course Name: Biostatistics & Research Methodology
 Course Outcomes

Academic Session: Even 2023-24
 Course Code: BP801T

Year: IV Semester: VIII
 Course Coordinator Name: Dr. Richa Agarwal

After completion of the course, the student will be able to		RelevantPOs	Revised Bloom's Level (BL)	Knowledge Category (KC)
CONo.	Statement of Course Outcome			
CO1	Interpret the basic concepts of biostatistics and general research methodology	1,2,3,4,8,9	Understand	Conceptual, and Procedural
CO2	Explain the appropriate statistical methods required for a particular research design	1,2,3,4,8,9	Apply	Conceptual, and Procedural
CO3	Adapt the appropriate research design and develop appropriate research hypothesis for a research project	1,2,3,4,6,7,8,10,11	Understand	Conceptual, and Procedural
CO4	Evaluate the methods while working on a research project work	1,2,3,4,5,8,9,11	Apply	Conceptual, and Procedural
CO5	Explain the various types of research design and create an appropriate framework for research studies	1,3,4,9	Understand	Conceptual, and Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	1	1	3	1	-	-	-	1	1	-	-
CO2	1	2	3	2	-	-	-	1	1	-	-
CO3	1	2	3	2	-	1	1	1	2	1	1
CO4	1	1	3	3	2	-	-	1	1	-	1
CO5	1	-	3	3	-	-	-	-	1	-	-
POTarget	1.00	1.50	3.00	2.20	2.00	1.00	1.00	1.00	1.20	1.00	1.00

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Richa Agarwal		Dr Deepti Seth	


 Signature of Course Coordinator


 Assoc./ Asst. Head DOC


 Signature of Addl. HoD


 Signature of HoD

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

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KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy

Program Name: B. Pharm

Academic Session: Even 2023-24

Year: IV

Semester: VIII

Course Name: Social and Preventive Pharmacy



Course Code: BP802T


Course Coordinator Name: Ms. Sheena Mehta

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 various concepts of health and diseases with reference to public health	1, 3, 6, 7, 8, 9, 11	Apply	Factual & Conceptual
CO2	To acquire the knowledge of general principles for prevention and control of various diseases in light of social and preventive medicine	1, 3, 6, 7, 8, 9, 11	Apply	Factual & Conceptual
CO3	Outline the important attributes of various National Health Programmes in context with its objectives, functions and outcomes	1, 3, 6, 7, 8, 9, 11	Analyze	Factual & Conceptual
CO4	Explore various National Health Programmes and role of WHO in Indian health program in context with public health	1, 3, 6, 7, 8, 9, 11	Analyze	Factual & Conceptual
CO5	Determine the role of community services in rural, urban and school health	1, 3, 6, 7, 8, 9, 11	Apply	Conceptual

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

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Ms. Vidhu Saxena		Ms. Sheena Mehta	


Signature of Course Coordinator


Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

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KIET School of Pharmacy

Program Name: B. Pharm

Academic Session: Even 2023-2024

Year: IV

Semester: VIII

Course Name: Pharmaceutical Marketing Management



Course Code: BP803ET

Course Coordinator Name: Ms. Shikha Kaushik


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 basic concepts of marketing and their application in pharmaceutical marketing.	1,2,3,5,6,7,8,9,11	Analyze	Conceptual
CO2	Explore product management in the pharmaceutical industry.	1,2,4,5,6,7,8,9,10,11	Apply	Conceptual
CO3	Assess various promotional techniques for pharmaceutical products.	1,2,3,4,5,6,7,8,9,11	Evaluate	Conceptual
CO4	Acquire knowledge about various pharmaceutical marketing channels.	1,2,3,5,7,8,9,10,11	Apply	Conceptual
CO5	Ascertain the objectives and importance of price management in the pharmaceutical industry.	1,3,4,6,7,8,9,11	Apply	Conceptual

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	2	3	3	-	3	3	3	2	2	-	2
CO2	3	3	2	-	3	3	3	3	2	-	3
CO3	2	3	3	-	1	3	3	3	2	-	3
CO4	2	3	3	-	3	2	3	3	2	-	3
CO5	3	2	3	-	2	3	3	3	2	-	3
PO Target	2.40	2.80	2.80	-	2.40	2.80	3.00	2.80	2.00	-	2.80

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Ms. Shikha Kaushik		Ms. Vidhu Saxena	


Signature of Course Coordinator


Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

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KIET Group of Institutions, Delhi – NCR, Ghaziabad

KIET School of Pharmacy

Program Name: B. Pharm

Academic Session: Even 2023-24

Year: IV

Semester: VIII

Course Name: Computer Aided Drug Design


Course Code: BP807ET

Course Coordinator Name: Dr. Garima Kapoor

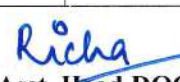
Course Outcomes

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	Describe the basic concepts of CADD and rational approaches to drug design	3, 4, 6, 8, 9, 11	Understand	Factual/Conceptual
CO2	Understand the concept of QSAR, descriptors and various approaches.	1, 4, 8, 9, 11	Understand	Conceptual
CO3	Acquire knowledge of virtual screening techniques and molecular docking.	4, 11	Apply	Conceptual
CO4	Explore about bioinformatics and cheminformatics in pharmaceutical drug discovery	1, 3, 4, 5, 6, 11	Apply	Conceptual
CO5	Explore objectives and importance of molecular mechanics and quantum mechanics in drug discovery.	1, 3, 4, 11	Apply	Conceptual

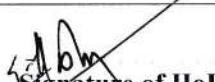
CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3	3	3	2		3		2	3	3	3
CO2	2		2	3	3	3	2	3	3	3	2
CO3				3							3
CO4	2		3	2	3	2					3
CO5	3		3	3							3
PO Target	2	0.6	2.2	2.6	1.2	1.6	0.4	1	1.2	1.2	2.8

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


Signature of Course Coordinator


Assoc./ Asst. Head DOC


Signature of Addl. HoD


Signature of HoD

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KIET Group of Institutions, Delhi – NCR, Ghaziabad

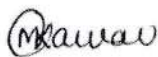

Program Name: B. Pharm.
Course Name: Cosmetic Science
Course Outcomes

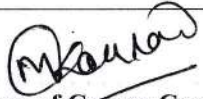
KIET School of Pharmacy
Academic Session: Even 2023-24
Course Code: BP809ET

Year: IV
Course Coordinator Name: Dr. Monika Kaurav
Semester: VIII

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 structures of skin, hair, and oral cavity with associated problems and the classification & applications of the cosmetic product with different excipients used to manufacturing of cosmetic products	1,3,5,6,7,9,11	Apply	Factual and Conceptual
CO2	Explain the skincare products, antiperspirants and deodorants, and hair care products.	1,3,5,6,7,9,11	Apply	Factual Conceptual, and Procedural
CO3	Demonstrate the role of herbs in cosmetics, analytical cosmetics.	1,3,7,9,10,11	Apply	Factual Conceptual, and Procedural
CO4	Analyze the principles of cosmetic evaluation.	1,3,4,5,6,7,10,11	Analyze	Factual Conceptual, and Procedural
CO5	Determine the cosmetic problems associated with Hair and scalp and skin.	1,3,5,7,9,10,11	Apply	Factual Conceptual, and Procedural

CO No.	Programme Outcome (PO)										
	1	2	3	4	5	6	7	8	9	10	11
CO1	3		3		3	2	2		2		2
CO2	3		2		2	2	2		2		2
CO3	3		2				2		1	1	1
CO4	3		2			2	2			2	2
CO5	3		2		2		2		2	1	2
PO Target	3		2.2		2.33	2	2		1.4	1.33	1.8

Faculty Members Teaching the Course	Signature	Faculty Members Teaching the Course	Signature
Dr. Monika Kaurav		Mr. Anuj Pathak	


 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.