KIET SCHOOL OF PHARMACY

Minutes of Meeting held on 21st April 2025 in KSOP Department

Agenda:

Discussion and approval of CO statements, CO-PO mapping, target benchmark for B. Pharm 2nd, 4th, 6th and 8th semester and M. Pharm 2nd and 4th semester for session 2024-25 Even semester

Time: 12:30 P.M.

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

BoS Members Present:

1. Dr. N.G. Raghavendra Rao Cuun

2. Dr. Roma Ghai

Topics Discussed:

- 1. The BoS members reviewed and approved the CO statements and CO-PO mapping per IQAC requirements for the 2024-25 Even semester session.
- 2. 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 ERP Portal and Cyber Vidya Portal through the respective CO-coordinator.

Prof. (Dr.) K. Nagarajan

Principal,

KIET School of Pharmacy

Prof. (Dr.) Yaduvir Singh

Dean, Ranking and Accreditation

Prof. (Dr.) Adesh Pandev

Director Academic

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Prof. (Dr.) K. Nagarajan	Prof. (Dr.) Roma Ghai	Dr. Roma	Prof. (Dr.) N. G. R. Rao	Prof. (Dr.) Ashu Mittal	Or Lakshmi	MAL Ameri Darbark	Mr. Anuj Pathak	Dr. Snigdna	Dr. Abhay Bhardwaj	Ms. Surbhi Kamboj	Dr. Smriti Sahu	Dr. Snigdha Bhardwaj	Dr. Shwetaksni			
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Principles of Drug Discovery	Clinical Research and Pharmacovigilance	Evnorimental Pharmacology - II	CApture (Nano Toch and Tarosted	Land Pharmacouties (National Perinancialination	dvanced biopharmaceutics & ritalinaconnect	Computer Aided Drug Delivery System	Cosmetic and Cosmeceuticals	Pharmaceutics Practical II	Hazards and Safety Management	Pharmaceutical Validation	Audits and Regulatory Compliance	Pharmaceutical Manufacturing Technology	Pharmaceutical Quality Assurance Practical II	- W - O. M.	The transfer of the transfer o	Signature of BoS, KSOP
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Academic Session: Even 2024-25 Semester: 1	Code: BP201T Facu. 19:05
Academic Se	Course Code

Course Name: Human Anatomy and Physiology

Program Name: B. Pharm

Tagging CC	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge
After compl	After completion of the course, the student will be able to	Process Level (BL)	Category (KC)
100	Elaborate the anatomy and physiology of the Nervous system.	Understand	Factual & Conceptua
C02	Illustrate anatomy and physiology of Digestive System and energetics (ATP, Creatinine Phosphate).	Apply	Factual & Conceptua
03	Explore the structure and functions of Respiratory System and Urinary System.	Apply	Factual & Conceptua
CO4	Illustrate the anatomical and physiological aspects of the Endocrine System.	Apply	Factual & Conceptua
500	Infer the structural and functional aspects of Reproductive System and Genetics	Analyze	Factual & Conceptua

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			Humar	1 Anatomy	y and Phys	Human Anatomy and Physiology (BP201T)	201T)				
Course Code	P0-1	PO-2	PO-3	PO-4	PO-5	9-0d	PO-7	PO-8	PO-9	PO-10	PO-11
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7-00	, ,			1		-		-	2	E	64
CO-3	0 0							-	2	1	
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CO-5	3	1	ı				1	-	c	1	
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Signature of Addl. HoD

Signature of HoD

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

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



Course name: P. Organic Chemistry-I

Program Name: B. Pharm













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K	Semester: II	Faculty: Dr. Abhay Bhardwa
KIET SCHOOL OF PHARMACY	Academic Session: Even 2024-25	Course Code: BP202T
		I-v

After completion of the course, the student will be able to CO1 Generalize the chemistry and isomerism of Organic Compounds. CO2 Illustrate the chemistry and applications of Alkyl halide and Conjugated dienes. CO3 Explore the chemistry and applications of Carbonyl compounds. CO4 Illustrate about chemistry and applications of Carbonylic acids and Conjugated dienes. CO4 Explore chemistry and applications of Carbonylic acids and Apply Factual & Conceptual Fac	Tagging CO	Tagging COs with BLs & KCs		
Organic Compounds. Understand of Alkanes, Alkenes Apply of Alkyl halide and Apply utions of Carbonyl Apply arboxylic acids and Apply	CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
Generalize the chemistry and isomerism of Organic Compounds. Understand and Conjugated dienes. Apply and Alcohols Lxplore the chemistry and applications of Alkyl halide and Alcohols Hlustrate about chemistry and applications of Carbonyl compounds. Explore chemistry and applications of Carboxylic acids and Apply Apply Amines.	After comple	ction of the course, the student will be able to	Process Level (BL)	(KC)
Illustrate the chemistry and applications of Alkanes, Alkenes and Conjugated dienes. Explore the chemistry and applications of Alkyl halide and Alcohols Illustrate about chemistry and applications of Carbonyl compounds. Explore chemistry and applications of Carboxylic acids and Apply Amines.	C01	Generalize the chemistry and isomerism of Organic Compounds.	Understand	Factual & Conceptual
Explore the chemistry and applications of Alkyl halide and Apply Alcohols Illustrate about chemistry and applications of Carbonyl compounds. Explore chemistry and applications of Carboxylic acids and Apply Amines.	C02	Illustrate the chemistry and applications of Alkanes, Alkenes and Conjugated dienes.	Apply	Factual & Conceptual
Illustrate about chemistry and applications of Carbonyl Apply compounds. Explore chemistry and applications of Carboxylic acids and Apply Amines.	C03	Explore the chemistry and applications of Alkyl halide and Alcohols	Apply	Factual & Conceptual
Explore chemistry and applications of Carboxylic acids and Apply Amines.	C04	Illustrate about chemistry and applications of Carbonyl compounds.	Apply	Factual & Conceptual
	CO5	Explore chemistry and applications of Carboxylic acids and Amines.	Apply	Factual & Conceptual

			P.	Organic (Chemistry	-I (BP202	T)				
Course Code	PO-1	PO-2	PO-3 PO-4 PO-5 PO-6 PC	PO-4	PO-5	9-Od	PO-7	8-O4	PO-9	PO-10	PO-11
CO-1	3		2	2		2	1	1	2	1	3
CO-2	3	,1	2	2	1	2	1		2		3
CO-3	3	1	2	2		2	1		2		3
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The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs. The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge Please Note (Reference: OBE Guidelines wef. Session 2023-24)

and optional parts are Condition and Criteria. ۰.















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KIET SCHOOL OF PHARMACY

Connecting Life with Learning

Program Name: Pragati Gunta	Academic Sestion: Even 2024-25	Semester: L
Course name. Riochemistry	Course Code: BP203T	Faculty: Ms. Pragati Gupta

Course name	Course name: Biochemistry Course Code: BP203T	Faculty: Ms. Pragati Gupta	ragati Gupta
Cagoing CO	agging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
After comple	After completion of the course, the student will be able to	Process Level (BL)	(KC)
C01	Elaborate the concepts of biomolecules and bioenergetics.	Understand	Factual & Conceptual
C02	Explore the knowledge of carbohydrate metabolism and biological oxidation and underlying diseases	Apply	Factual & Conceptual
CO3	Analyze the concepts of lipid and amino acid metabolism and their role in various diseases.	Analyze	Factual & Conceptual
C04	ncept of nu	Analyze	Factual & Conceptual
c05	Classify various types of enzymes and their role as diagnostic and therapeutic applications	Analyze	Factual & Conceptual

				Bioche	Biochemistry (BP203T)	203T)					-
	100	200	PO-3	PO-4	PO-5	9-0d	PO-7	PO-8	PO-9	PO-10	
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Signature of Course Coordinator

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The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs. Please Note (Reference: OBE Guidelines wef. Session 2023-24)

The courses having credits 5 to 0 situation may be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional The statement of a CO must be formed considering a proper structure having mandatory and optional narts are Condition and Criteria. . .















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KIET	KIET SCHOOL OF PHARMACY		
Program Name: B. Pharm Ac	Academic Session: Even 2024-25	Semester: II	
logy	Course Code: BP204T	Faculty: Ms N'dhi	

Tagging CO	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process	Knowledge
After comple	After completion of the course, the student will be able to	Level (BL)	Category (KC)
C01	Illustrate the basic mechanisms involved in the process of cell injury and inflammation.	Apply	Conceptual
C02	Illustrate the pathological mechanisms involved in the development of cardiovascular, renal, and respiratory diseases.	Apply	Conceptual
C03	Explore the mechanisms of development of diseases associated with the blood, endocrine, nervous, and gastrointestinal systems.	Apply	Conceptual
C04	Illustrate the development and progression of inflammatory diseases along with cancer.	Apply	Conceptual
500	Infer the etiology and pathogenesis of infectious and sexually transmitted diseases.	Analyze	Conceptual

lapping of Course outcomes wi	onicome		0	Pathoph	Vsiology (1	BP204T)					
Common Codo	PO-1	PO-2	PO-2 PO-3 PO-4 PO-5 PO-6	PO-4	PO-5	9-0d	PO-7	PO-8	6-0d	PO-8 PO-9 PO-10 PO-11	PO-1
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in Pharmacy Course Code: BP205T Faculty: Ms Strbhil	Contract Con	Contraction of the same
	'rde: BP205T	Faculty: Ms. S. rbhi k

Course name: Computer Applications i

B. Pharm

Program Name:

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Tagging CO	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcon.e	Bloom's Cognitive	Knowledge Category (KC)
After comple	After completion of the course, the student will be able to	Process Level (BL)	0
100	Elaborate the concept of number system and information systems.	Understand	Factual & Conceptual
C02	Interpret various web technologies and databases.	Evaluate	Factual & Conceptual
C03	Illustrate various types of application of computers in pharmacy.	Apply	Factual & Conceptual
CO4	Explore the objective, concept and impact of Bioinformatics.	Analyzc	Factual & Conceptual
500	Acquire the application of computers in data analysis in Preclinical development.	Apply	Conceptual & Procedural

	Computer Applications in Pha		Comput	Computer Applications in Ph	tions in P	rmacy ((BP205T)				
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d	PO-7	8-0d	PO-9	PO-10	PO-11
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Signature of HoD

Signature of Course Coordinator

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

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













MARC	Accredited by NAAC with Grade "A+"	ster: II	Faculty: Pallavi Barik
San	N A SA	024-25 Seme	Facu
CROUP OF INSTITUTIONS	2	Academic Session: Even 2024-25 Semester: II	Course Cc 1c: BP206T
CROUP CHOUP	WWW.Kief.edu Connectinethewck Ghazabad Connectin		ntal Sciences Theory
200)	Pharmacy Rank - 88 W	Program Name: B. Pharm	Course Name: Envir mment

CO No.	Statement of Course Outcome	Bloom's Cognitive Process	ON THE STATE OF THE PARTY OF TH
After compl	After completion of the course, the student will be able to	Level (BL)	Anowieuge Category (AC)
C01	Review the concept of environmental studies with its natural resources.	Understand	Factual & Conceptual
C02	Elaborate the concept of ecosystem and its structural and functional components with its classification.	Understand	Factual & Conceptual
03	Illustrate the concept of environmental pollution, its impacts and mitigation measures.	Apply	Factual & Conceptual

			Enviro	nmental	Environmental Sciences Theory (BP206T)	heory (BP	206T)				
Course Code	P0-1	PO-2	PO-3	PO-4	PO-5	9-Od	PO-7	8-0d	PO-9	PO-10	PO-11
CO-1	•	1	1	1	1	2	-	1	3	3	m
CO-2		2	-	1/ 8 /1	1	-	-	-	2	3	m
CO-3	1	3	3	1	1	2	1	1	3	3	3
PO Target		7	1.67		-	1.67	1	1	2.67	3	3

Signature of Course Coordinator

Signature of Addl. HoD



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

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The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.

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













KIET SCHOOL OF PHARMACY

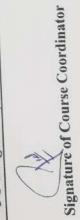
Accredited by NAAC with Grade "A+"

	20 Febre 12	11
Program Name: B. Pharm	Academic Session: Even 2024-25	Semester: II
Course name: Human Anatomy & Physiology-II Course Code: BP207P	Course Code: BP207P	Faculty: Dr. Praveen Kumar Dix
Practical		

agging	agging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category (KC)
Her cor	After completion of the course, the student will be able to	I I Decess Prevei (DE)	Carred (me)
100	Elaborate the anatomy and physiology of CNS, Digestive system, Respiratory system, urinary system, endocrine system and reproductive	Understand	Conceptual
C02	Demonstrate the practical aspects related to reflex activity, body	Apply	Conceptual & Procedural
203	Explore the different mechanisms of responses related to sense organs and	Apply	Conceptual
SO	nervous system.	Annly	
C04	Illustrate the recent advancements in the treatment and diagnosis of respiratory, digestive and CVS related diseases.	fraids :	Conceptual

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Appling of Course Courses The Human Anatomy & Physiology-II	onicomo	H	Human Anatomy & Physiology-II Practical (BP207P)	tomy & P	hysiology-	II Practica	al (BP207)	(A			
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	100	000	PO-3	PO-4	PO-5	9-Od	PO-7	PO-8		PO-9 PO-10 PO-11	F0-1
Course Code	ro-1	7-01	201					*		1	0
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The courses having credits 3 to 9 shound may a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs. Please Note (Reference: OBE Guidelines wef. Session 2023-24)

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KIET SCHOOL OF PHARMACY

Faculty: Dr. Smriti Sahu Semester: II Academic Session: Even 2024-25 Course Code: BP208P Course name: Organic Chemistry Practical Program Name: B. Pharm

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Statement of Course Outcome	Bloom's Cognitive	Knowledge Category (KC)
After completion of the course, the student will be able to	Process Level (BL)	(ar) findam again min
Explore necessary skills for performing organic chemistry experiments, including proper handling of laboratory equipment and adherence to safety protocols.	Apply	Conceptual & Procedural
y synthetic techniques to prepare pharmaceutical compounds, gaining ciency in common laboratory procedures for the synthesis of organic cules.	Apply	Conceptual & Procedural
late methods for the isolation and purification of organic compounds, ding techniques such as extraction, distillation, and chromatography.	Evaluate	Conceptual & Procedural
late methods for the isolation and purification of organic compounds, ding techniques such as extraction, distillation, and chromatography.	Evaluate	Conceptual & Procedural
	Apply synthetic techniques to prepare pharmaceutical compounds, gaining proficiency in common laboratory procedures for the synthesis of organic molecules. Validate methods for the isolation and purification of organic compounds, including techniques such as extraction, distillation, and chromatography. Validate methods for the isolation and purification of organic compounds, including techniques such as extraction, distillation, and chromatography.	proper handling of laboratory equipment and adherence to safety in common laboratory procedures for the synthesis of organic nethods for the isolation and purification of organic compounds, techniques such as extraction, distillation, and chromatography.

		Indepart	Organic Chemistry Practical (BP208P)	ganic Chen	Organic Chemistry Practical (BP208P)	ical (BP208	(P)				
Common Codo	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d	PO-7	PO-8	PO-9	PO-10	PO-11
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Signature of HoD

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











Faculty: Mr. Surva Prakath Semester: II Academic Session: Even 2024-25 KIET SCHOOL OF PHARMACY Course Code: BP2C9P Connecting Life with Learning Course name: Biochemistry Practical Program Name: B. Pharm

Tagging CO	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category (KC)
A Gor countle	A Assessmentation of the course the student will be able to	Process Level (BL)	0
CO1	Analyze different carbohydrates, proteins, and abnormal	Analyze	Conceptual & Procedural
	Estimate blood creatinine, salivary amylase, blood sugar and	Evaluate	Conceptual & Procedural
C07	serum total cholesterol.		
000	Demonstrate the preparation of buffer solution and measurement	Apply	Conceptual & Procedural
500	of pH.		
700	Assess quantitative analysis of reducing sugars (DNSA method)	Evaluate	Conceptual & Procedural
50	and Proteins.		

Course Code PO-1		Commit	or Annlica	Committee Annlications in Phai	ma.	(BP210P)				
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Signature of Course Coordinator

Signature of Addl. HoD

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

Condition and Criteria.



Engineering Pharm Innovation I











Program N	Program Name: B. Pharm	Academic Session: Evan 2024-25 Semester: II	3 2024-25 S	emester	П	_
Course nan	Course name: Computer Applications in Pharmacy Course Code: BP210P	Course Code: BP210		aculty:	Faculty: Ms. Surbhi Kamboj	
Tagging C(Tagging COs with BLs & KCs					
CO No.	Statement of Course Outcome	come	Bloom's Cognitive	nitive	10/20	
After compl	After completion of the course, the student will be able to	, 0	Process Level (BL)	(BL)	Knowledge Category (KC)	
C01	Demonstrate the utility of MS office suite to maintain patient record database.	te to maintain patient	Apply		Conceptual & Procedural	-
C02	Apply the knowledge of computing fundamentals pharmaceuticals application for any given requirement	g fundamentals to	Apply		Factual & Conceptual	
CO3	Analyze the contemporary IT tools (web technologies and databases) with pharmaceutical activities.	eb technologies and	Analyze		Conceptual & Procedural	
C04	Interpret the various application of database in pharmacy	use in pharmacy	Understand	70	Conceptual and Procedural	

fapping of Cours	e outcome	itcomes with Progra	gram out	comes CO	CO-POs Matrix	rix				
			Comput	er Applica	fions in P	harmacy	(BP210P)			
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d	PO-7	8-0d	PO-9	-
CO-1	3	2	2	2	1	2	1	3	2	-
CO-2	3	2	2	2	1	2	ı	3	2	-
CO-3	3	2	2	3	2	2	2	,	2	
CO-4	3	•	1	2	1	2	2	2	3	
PO Target	3.00	2.00	2.00	2.25	2.00	2.00	2	2.67	2.25	

PO-11

PO-10

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Signature of Course Coordinator

Signature of Addl. HoD

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- * *
- The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.

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











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KIET SCHOOL OF PHARMACY

Connecting Life with Learning

Program Name: B. Pharma	Academic Session: Even 2024-25	Semester, IV Faculty: Mc Shinra Singhal
Course mainter a mai maccameal of game onemism -1	THE COURSE COURSE DA TOAR	A Charles of Louis Charles of Chinages of

Tagging CO	agging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
After comple	After completion of the course, the student will be able to	Process Level (BL)	(KC)
C01	Illustrate about Stereo isomerism, Optical isomerism.	Apply	Factual & Conceptual
C02	Illustrate about Geometrical isomerism and Conformational isomerism.	Apply	Factual & Conceptual
C03	Outline the nomenclature, classification, synthesis and reaction of some heterocyclic compounds.	Analyze	Factual & Conceptual
C04	Explore the Synthesis, reactions and medicinal uses of some heterocyclic compounds.	Apply	Factual & Conceptual
c05	Outline some important synthetic name reactions.	Analyze	Factual & Conceptual

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Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	-	2	1		1	-	,	,	,	2
CO-2	3	-	2	_	*		_	,	i		7
CO-3	3	-	2	1	1		2		2	,	2
CO-4	3	1 .	2	/4		.1	2	,	2		2
CO-5	3	-	2	10	1	•	1	-	2	,	2
PO Target	3	-	2	1	-1	ı	1.4	1	2	,	7

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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















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Connecting Li

Academic Session: Even 2024-25

Course Code: BP402T

Course name: Medicinal Chemistry -I Theory

Program Name: B. Pharm

Tagging COs with BLs & KCs

CO No

Faculty: Mg.

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Knowledge Category

Bloom's Cognitive Process Level (BL) Factual & Conceptual Factual & Conceptual

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Factual & Conceptual Factual & Conceptual

Factual & Conceptual

Apply

and stereochemical properties in relation to drug design and drug metabolism. Elaborate basics of medicinal chemistry, physicochemical Statement of Course Outcome After completion of the course, the student will be able to

Illustrate the chemistry of drugs acting on CNS such as sedative, hypnotics. Explore the chemistry of drugs acting on cholinergic system. Explore the chemistry of drugs acting on adrenergic system. antipsychotics and anticonvulsants.

> C02 CO3

C01

Illustrate the chemistry of general anesthetics, narcotic & non-narcotic analgesics and anti-inflammatory agents.

C05

C04

Medicinal Chemistry -I Theory (BP402T) Mapping of Course outcomes with Program outcomes CO-POs Matrix

PO-5 PO-4 PO-3 PO-2 PO-1

PO-11

PO-10

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PO-7

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PO Target CO-5

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Signature of Course Coordinator

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NIRI -2024 Engineering Rank Band (151-200) Innovation Rank Band (11-50)









KIET SCHOOL OF PHARMACY

rogram Name: B. Pharm	Academic Session: Even 2024-25	Semester: IV
ourse name: Physical Pharmaceutics-II	Course Code: BP403T	Faculty: Mr. Debapracad Chos.

Tagging CO	agging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
After comple	After completion of the course, the student will be able to	Process Level (BL)	(KC)
C01	Examine the types, general characteristics, and effect of various factors on Colloidal dispersions.	Apply	Conceptual & Procedural
C02	Identify the rheological behavior of fluids and the principles of deformation of solids.	Analyze	Conceptual & Procedural
c03	Analyze the theories, types, various properties, and stability of Coarse dispersions like suspensions and emulsions.	Analyze	Conceptual & Procedural
C04	Analyze various aspects of micrometrics.	Analyze	Conceptual & Procedural
C05	Analyze the effects of kinetics, degradation factors and common reactions on the stability of drugs including accelerated stability studies and their prevention.	Analyze	Conceptual & Procedural

			PI	Physical Pharmaceutics-II (BP403T)	rmaceutics	-II (BP403	T)				
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-Od	PO-7	8-0d	PO-9	PO-10	PO-11
CO-1	0	1	2	3							2
CO-2	3	-	2	3				E		,	2
CO-3	3	-	2	3				1	r	Y	2
CO-4	3	_	2	3			E	1	1	,	2
CO-5	3	-	2	3		-	-	1	1	-	2
PO Target	3	1	2	3		-	1	1	1	1	2
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Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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KIET SCHOOL OF PHARMACY

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Delhi-NCR, Ghaziabad

n Academic Session: Even 2024-25 Semester: IV	logy-1 Course Code: BP404T Faculty: Ms. Nidhi
am Neme: B. Phari	e name: Pharmaco

Tagging COs	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	-
After complet	After completion of the course, the student will be able to	Process Level (BL)	Knowledge Category (KC
C01	Acquire concept of general pharmacology and pharmacokinetics.	Apply	Factual & Conceptual
C02	Analyze the mechanism of action of drugs, related adverse drug reaction, drug-receptor interactions, dose-response relationships, and factors influencing drug action.	Analyze	Factual & Conceptual
CO3	Apply the implications of peripheral nervous system in treatment of associated diseases.	Apply	Conceptual & Procedural
C04	Apply the implications of central nervous system in treatment of neurological diseases.	Apply	Factual & Conceptual
C05	Audit the significance of drugs in pharmacotherapy of various diseases and management of adverse effects.	Analyze	Conceptual & Procedural

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				Pharma	cology-1 (B	P4041)					
Course Code	PO-1	PO-2	PO-3	77	PO-5	PO-5 PO-6 PO-7	PO-7	8-0d	PO-9	PO-10	PO-11
CO-1	3		2	1	1	3	3		2	1	3
CO-2	3		2	1	1	3	3	2	2	,	3
CO-3	3	4	2	•	1	3	3		2	,	3
CO-4	3		2		1	3	3		7	1	3
CO-5	3	1	2	ı	1	3	3	2	2		3
PO Target	8	1	7		1	3	3	7	7		



Signature of Addl. HoD

Signature of HoD

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

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



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Course Code: BP405T

Course name: Pharmacognosy & Phytochemistry I

Program Name: B. Pharm

Facuity: Dr. Deepti Katiyar

	Enourlodge Cotocom	SS (KC)	Conceptual & Procedural	Conceptual & Procedural	Factual & Conceptual	Factual & Conceptual	Factual & Conceptual
	Bloom's	Cognitive Process	Evaluate	Apply	Apply	Apply	Analyze
agging COs with BLs & KCs	Statement of Course Outcome	After completion of the course, the student will be able to	Appraise the sources, classification and quality control of herbal drugs.	Attain the knowledge of the cultivation & production of crude drugs and conservation of medicinal plants.	Illustrate the concepts of Plant Tissue Culture and to determine properties of edible vaccines.	Acquire the knowledge of traditional systems of medicine and to summarize properties of various secondary metabolites.	Explore the properties and applications of plant fibers, hallucinogens, carbohydrates, lipids, proteins, enzymes and marine products.
agging CC	CO No.	After compl	C01	C02	CO3	C04	500

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PO-9	2		1	1	1	2
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PO-7	1.	2				2
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PO-5	ı	1			1	
PO-4	2				1	1.5
PO-3	1	2	2	2	2	2
PO-2	1	1	1		1	ı
PO-1	3	3	3	3	3	3
Course Code	CO-1	CO-2	CO-3	CO-4	CO-5	PO Target

Signature of Course Coordinator

Signature of HoD

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	Semester: IV	Ī	Faculty: Ms Shikha Kaushik	
KIET SCHOOL OF PHARMACY	Academic Session: Fven 2024-25	Academic Department	Course Code: BP406P	
KIE		Drogram Name: B. Pharm	Commo Name: Medicinal Chemistry-I Practical	Course Malle, My diction Course

Transland CO.	Transit Of with RI & & KC		
1 agging CO		The Committees	
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category (KC)
-	the chident will be able to	Process Level (BL)	
After comple	shon of the course, the statem will be used	•	O Decondered
100	Illustrate the synthesis of some heterocyclic drugs or intermediates.	Apply	Conceptual & Procedular
100	Illustrate in symmetry of comments of the	Amelian	C. Dunnal P. Dunnalmal
*00	A - a true the purity of some heterocyclic drugs.	Analyze	Conceptual & Floredulai
700	Analyze up punty or some more of		la D. Land
5003	A noting the partition coefficient of some drugs.	Analyze	Conceptual & Procedural
S	Analyze are partition comments	Evoluate	
100	Evaluate some organic and inorganic compounds through chemical	Evaluate	Conceptual & Procedural
5	tests.		

Mapping of Course outcomes with	ourcomes w	IIII I I IOSI W	Medi	Medicinal Chemistry-I	Medicinal Chemistry-I Practical (BP406P)	ctical (BP4	(d90)				
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Signature of Course Coordinator

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Signature of HoD

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

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



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KIET SCHOOL OF PHARMACY

rmacentics-II Practical	Program Name: B. Pharm	Acrdemic Session: Even 2024-25	Semester: IV
	ical Pharmacentics-II P	Course Code: BP407P	Faculty: Dr. Lakshmi

lagging COs	lagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
After complet	After completion of the course, the student will be able to	Process Level (BL)	(KC)
C01	Evaluate particle size, particle size distribution, and derived properties of the powder.	Evaluate	Conceptual & Procedural
C02	Calculate the viscosity of viscous samples using different methods.	Apply	Conceptual & Procedural
C03	Evaluate the prepared suspension and emulsion formulations.	Evaluate	Conceptual & Procedural
C04	Evaluate the kinetics of chemical reactions with stability studies.	Evaluate	Conceptual & Procedural

Mapping of Course outcomes with	outcomes w	ith Program	n outcomes	outcomes CO-POs Matrix	Matrix						
			Physica	Physical Pharmac	eutics-II P	aceutics-II Practical (BP407P	P407P)				
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-Od	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	2	7	3			1		1	1	2
CO-2	3	2	2	3	1	1	-		1	1	2
CO-3	3	2	2	3	1		2	,	1	1	2
CO-4	3	2	2	3	1		2	,	-	-	2
PO Target	3	2	2	3	1	1	1.5		1	1	2

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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NIRF-2024 Engineering Rank Band (151-200) Innovation Rank Band (11-50)



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KIET SCHOOL OF PHARMACY

Flogiam Maine: D. I. I. I.	DACII ACAT AC
Course name, Dharmacology, I Practical Course Code: BP408F	Faculty; Ms. Mdn1

Tagging COs	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
After complet	After completion of the course, the student will be able to	(BL)	(KC)
001	Illustrate the CCSEA guidelines for laboratory animals, including ethical considerations, instrumentation, and essential techniques used in experimental	Apply	Conceptual & Procedural
C02	Explore the different routes of drug administration in mice and rats, along with key laboratory techniques for studying drug effects on physiological functions.	Apply	Conceptual & Procedural
C03	Illustrate the effect of enzyme inducers on sleeping time in mice, drug effects on ciliary motility in frogs, and pharmacological actions on the central and peripheral	Apply	Conceptual & Procedural
CO4	Apply the concept of experimental methodologies to assess anticatatonic and anxiolytic activities, as well as the effects of local anesthetic agents in animal models.	Apply	Conceptual & Procedural

PO-11

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Signature of HoD

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Program Na	Program Name: B. Pharm	Academic Session: Even 2024-25	Semester: IV	
Course Nam	Course Name: Pi.armacognosy I. Practical	Course Cude: BP409P	Faculty: Dr. Richa Goel	ha Goel
Tagging CO	Tagging COs with BLs & KCs			
CO No.	Statemen	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
After comple	After completion of the course, the student will be able to	able to	Process Level (BL)	(KC)
C01	Describe quantitative microscopy for determining the leaf constant.	or determining the leaf constant.	Apply	Conceptual & Procedural
C02	Determine the size of cellular con micrometer.	Determine the size of cellular content by micrometry technique using eyepiece micrometer.	Apply	Conceptual & Procedural
C03	Evaluate the crude drugs on the basis of WHO guidelines.	sis of WHO guidelines.	Evaluate	Conceptual & Procedural
C04	Analyze the crude drugs by chemical tests.	al tests.	Analyze	Conceptual & Procedural

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Signature of Course Coordinator

Signature of Addl. HoD



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

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X	KIET SCHOOL OF PHARMACY	
Program Name: B. Pharm	Academic Session: Even 2024-25	Semester: IV
Course name: Biomedical Waste Management	Course Code: BPH2 410	Faculty: Dr. Shwetakshi Sharma

CO No.	CO No. Statement of Course Outcome After completion of the course, the student will be able to	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
	Understand the concept of health care waste.	Understand	Factual & Conceptual,
	Analyze the impact of biochemical waste on health.	Analyze	Factual, Conceptual, Procedural
	Analyze the WHO guidelines and policies on health care waste management.	Analyze	Factual, Conceptual, Procedural
	Apply the different treatment technologies in-site and off-site.	Apply	Factual, Conceptual, Procedural
	Apply waste minimization recycling and disposal technologies.	Apply	Factual, Conceptual, Procedural

Biomedical Waste Management (BPH2 410) Course Code PO-1 PO-2 PO-3 PO-4 PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 CO-1 3 - 3 - 3 2 - 2 3 2 CO-2 3 - 3 - 3 2 1 3 2 CO-3 3 2 3 2 3 2 3 2 CO-4 3 2 3 2 3 2 3 2 CO-4 3 2 3 1 2 1 3 2 CO-4 3 2 3 1 2 1 3 2 PO Target 3 2 3 1.80 2.25 14 3 2	Mapping of Course outcomes with Progran	outcomes w	ith Progran	1 out	comes CO-POs Matrix							
PO-1 PO-2 PO-3 PO-4 PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 3 - 3 - - 3 2 - 2 3 3 2 3 4 3 3 4 3 3 4 3 3 4 3 4 3 4 3 4 3 4 4 3 4 4 3 4 4 3 4 4 3 4 4 3 4 3 4 4 3 4 4 3 4 4 4 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 <				Biom	edical Wast	anag	nent (BPH2	(410)				
3 - 3 - - - - - 2 -	Course Code	P0-1	PO-2	PO-3	PO-4	PO-5	9-0d	PO-7	PO-8	PO-9	PO-10	PO-11
3 - 3 - <td>CO-1</td> <td>3</td> <td>1</td> <td>3</td> <td></td> <td>1</td> <td>۲</td> <td>0</td> <td></td> <td></td> <td></td> <td>1</td>	CO-1	3	1	3		1	۲	0				1
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3 2 3 2.33 2 3 1.80 2.25	CO-5	3	2	3	3	1	3		10		0 0	7
5 2 2 3 1.80 2.25	PO Target	2	•	,	00.0	•		-	1	-	2	7
	I O I an But	0	4	0	7.33	7	3	1.80	2.25	1.4		·

Signature of Course Coordinator

Signature of Addl. HoD

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

The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs. ***

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



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KIET SCHOOL OF PHARMACY Connecting Life with Learning

Accredited by NAAC with Grade "A+"

Program Na	Program Name: B. Pharm	Academic Session: Even 2024-25	Semester: VI	
Course nam	Course name: Medicinal Chemistry-III	Course Code: BP601T	Faculty: Dr. (Faculty: Dr. Garima Kapoor
Tagging CO	Tagging COs with BLs & KCs			
CO No.	Statement of	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
After comple	After completion of the course, the student will be able to	be able to	Process Level (BL)	(KC)
C01	Illustrate classification, nomenclature uses of different classes of antibiotics.	Illustrate classification, nomenclature, mechanism of action, SAR and uses of different classes of antibiotics.	Apply	Factual & Conceptual
C02	Illustrate classification, mechanism Antimalarials, Anti-tubercular, Urinary tra Anti-protozoal Agents and Anthelmintics.	Illustrate classification, mechanism of action and SAR of Antimalarials, Anti-tubercular, Urinary tract anti-infective, Antifungal, Anti-protozoal Agents and Anthelmintics.	Apply	Factual & Conceptual
CO3	Classify different antiviral agents and SAR.	Classify different antiviral agents along with their mechanism of action and SAR.	Apply	Factual & Conceptual
CO4	Illustrate classification, mechanism of action an Sulphonamides and Sulfones, Folate reductase inhibitors.	Illustrate classification, mechanism of action and SAR of Sulphonamides and Sulfones, Folate reductase inhibitors.	Apply	Factual & Conceptual
CO5	Analyze the concept of Drug Des	Analyze the concept of Drug Design, and Combinatorial Chemistry.	Analyze	Factual & Conceptual

			Me	Medicinal Chemistry-III (BP6017	nemistry-1	II (BP601	T)				
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6 PO-7	PO-7	8-0d	PO-9	PO-10	PO-11
CO-1	3	1	2		i	ì	,	1	1	1	
CO-2	3	ŧ	2	i	ı	1	1	1	1	1	2
CO-3	3	1	2			1	,	,	-	1	2
CO-4	3	1	2	1	1	1	,	•	-	,	7
CO-5	3	t	3	2		2	,	,	I		3
PO Target	3	,	2.2	2	1	7		•	1	-	2.2

Signature of Course Coordinator

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

The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs. . .

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



Program Name: B. Pharm













KIET SCHOOL OF PHARMACY Connecting Life with Learning

Semester: VI Academic Session: Even 2024-25 Course Code: BP602T Course name: Pharmacology-III

Faculty: Dr. Shardendu Kumar Mishra

Tagging CC	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
After comply	After completion of the course, the student will be able to	Process Level (BL)	(KC)
C01	Understand the knowledge of pharmacotherapy of respiratory and GIT diseases.	Understand	Factual & Conceptual
C02	Analyze the utility of antimicrobial agents used for curing infections.	Analyze	Factual & Concentual
CO3	Mustrate the various mechanisms by which chemotherapeutic agents	Analyze	Factual & Conceptual
C04	Examine the pharmacological profiles of anti-microbial agents and immunomodulators.	Apply	Factual & Conceptual
c05	Assess the principles & management of poisoning and chronotherapy.	Evaluate	Factual & Conceptual

				Pharmacology-II	ology-III	(BP602T)					
Course Code	P0-1	PO-2	PO-3	P0-4	PO-5	9-0d	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	1	2		1	-	2	2	3	,	3
CO-2	3	-	2		i	-	2	2	c		
CO-3	3		2	1		-	2	2	, "		
CO-4	3	-	2				2	2	0 "		0 (
CO-5	3		7		1	-	2	10	0 "	r	0 (
PO Target	3	1	2	1		1	2	2			0 2

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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



Engineering Rank Band (151-200) Pharmacy Rank - 66 Innovation Rank Band (51-100) NIRF-2023









KIET SCHOOL OF PHARMACY

	AMARIA SOURCE OF A RAILBANK A	
Program Name: B. Pharm	Academic Session: Even 2024-25	Semester: VI
Course name: Herbal Drug Technology	Course Code: BP603T	Faculty: Mr. Balwan Singh

Tagging COs with BLs & KCs			
	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
tion of the	After completion of the course, the student will be able to	Process Level (BL)	(KC)
Understa	Understand the Indian system of medicines and fundamentals of		
traditional	traditional herbal raw materials from its cultivation to collection	Understand	Factual & Conceptual
with the h	with the help of biodynamic agriculture.		
Explore t	Explore the demand and need of nutraceuticals in various diseases	÷	
and their i	and their interaction behavior.	Analyze	Factual & Conceptual
Investiga	Investigate various herbal excipients used in cosmetic formulations.	Analyze	Conceptual & Procedural
Apply the assessmen	Apply the National and International regulatory guidelines for the assessment of herbal drugs and patenting.	Apply	Factual, Conceptual
Explore	Explore the Current Good Manufacturing Practices (cGMP) in		Factual, Concentual
herbal dr	herbal drug industry.	Analyze	

			He	rbal Drug	Technolo	gy (BP603	E				
Course Code	P0-1	PO-2	PO-3	PO-4	PO-5	3 PO-4 PO-5 PO-6 P	PO-6 PO-7	PO-8	PO-9	PO-10	PO-1
CO-1	3	1	1	1		1	t	ı	2	2	2
CO-2	3	1	1	1	1	2	ı	1	2	2	2
CO-3	3	1	3	3	E			,	ı	2	0
CO-4	3	ı	t	1	1	2	2	3	2	2	1 0
CO-5	3	2	3	1	1	2	2	1	2	2	1
PO Target	3,	2	8	3	1.	7	2	3	2	2	10

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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

* *

The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.

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













Accredited by NAAC with Grade "A+"	Semester: VI	Faculty: Prof. Dr. Ashu Mittal
OF INSTITUTIONS OF INSTITUTIONS	Academic Session: Even 2024-25 Semester: VI	Course Code: BP604T
www.kiet.edu Connecting Life with Learning KIET School of Pharm		utics and Pharmacokinetics
FRAMEWORK NIRE-2023 Engineering Rank Fand (151-200) Pharmacy Rank - 88 Innovation Rank Band (51-100)	Program Name: B. Pharm	Course name: Biopharmaceutics and Pharmacokinetics

Tagging COs	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive Process	Knowledge Category
After complet	After completion of the course, the student will be able to	Level (BL)	(KC)
C01	Illustrate the mechanisms and factors of drug absorption and drug distribution.	Apply	Factual & Conceptual
C02	Analyze the processes of drug elimination, bioavailability and bioequivalence.	Analyze	Factual & Conceptual
CO3	Apply the principles of pharmacokinetics to different compartment models, non-compartment models, and physiological models, with a focus on the one compartment open model.	Apply	Factual & Conceptual
C04	Utilize the principles of pharmacokinetics to comprehend the concepts related to multicompartment models.	Apply	Factual & Conceptual
500	Demonstrate a comprehensive understanding of nonlinear pharmacokinetics	Apply	Factual & Conceptual

			Biopharma	Biopharmaceutics and Pharmacokinetics (BP604T)	d Pharma	cokinetics	(BP604T)				
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-Od	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	1	1	-		-	1	I	1	_	2
CO-2	3	1	3	2	1	1		1	1	1	2
CO-3	3	:	-	2	1	1	1	1	1	1	2
CO-4	3	1	3	2	1	1	1	-	1	1	2
CO-5	3	1	-	2	1	1	-	-	1	-	2
PO Target	3	1	1.8	2	-M	1	-	1	-	1	2

Signature of Course Cobrdinator

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Signature of Addl. HoD

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

The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge less than 3 should have 3 number of COs. The Project having 7 to 12 credits should have 6 to 10 number of COs. and optional parts are Condition and Criteria. ...



NIRF-2023
Engineering Rank Band (151-200)
Pharmacy Rank - 68
Innovation Rank - 68













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Pharmacy Rank - 68 Innovation Rank Band (51-100)	WWW.Kief.edu Delhi-NCR, Ghaziabad	Connecting Life with Learning		NAAC with Grade "A+"	16 "A+"
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Duoguom No		Academic Session: Even 2024-25		Semester: VI	
r rogram iva	Frogram value, D. I marini,	TANDOG TE O		ultv. Mr De	Faculty. Mr Dehanrasad Chosh
Course nam	Course name: Pharmaceutical Biofeci nology	Course Code: Broosi	rac	Many o trans	
Tagging CO	Tagging COs with BLs & KCs				
CO No.	Statement of Course Outcome	rse Outcome	Bloom's Cognitive		Knowledge Category (KC)
After comple	After completion of the course, the student will be able to	e able to	Process Level (BL)		
100	Analyze the role and the importance of biotechnology in	ortance of biotechnology in	Analyze	Conce	Conceptual, and Procedural
	pharmaceuticals with applicable methodologies	ethodologies		Const	learnbanand ban loutenanno
000	Analyze the recombinant DNA technology and its application in	hnology and its application in	Analyze	Conce	eptual, and Flocoura
700	pharmaceuticals production.		1	Cond	Series on Drochural
003	Demonstrate immunity and various immunological products and	is immunological products and	Apply	Collect	eptual, and Hoccoma
3	their production methods.		A 1	Conc	Concentral and Procedural
700	Analyze various immunoassay techniques for determination of	chniques for determination of	Analyze	Conce	cptual, and 1 recount
5	immunological products.		A	Jone J	Concentral and Procedural
502	Apply different fermentation techniques in production of various	niques in production of various	Apply	COLLEC	cpiuai, and i roodana

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Thin amount in this	ermentation products.
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	. 00	200	DO 2	PO-4	PO-5	9-Od	PO-3 PO-4 PO-5 PO-6 PO-7	PO-8	PO-9	PO-10	FO-11
Course Code	P0-1	7-O-I	201					4	-	0	0
	2	-	-	_	-	_	_		1	1	1
CO-1	C	1						+	1	0	33
	2	-		7		7	7	1	1	1	1
CO-2	0	,					-	-	-	8	7
		,	C		_	_	1	1	1		1
CO-3	3	-	1		-	C	2	-	2	_	7
7 00	2	_	2	7	-	7	1		,		0
CO-4	0	1		-	-	-	-	_	_	_	7
200	"		7	-	1	1		,		1 4	0
c-0-3		-	1 9 1	1.4	-	1.4	1.4	1	1.2	1.4	i



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Signature of Addl. HoD

Signature of HoD

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

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



Engineering Rank Band (151-200) Pharmacy Rank - 86 Innovation Rank Band (51-100)









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Rank - 86 www.kiet.edu Connectik Band (51-100) Dehi-NCR Ghaziabad KII.	KIET SCHOOL OF PHARMACY	Accredited by NAAC with Grade "A+"	No.
Pharm.	Academic Session: Even 2024-25	Semester: VI	
ty Assurance	Course Code: BP606T	Faculty: Dr. I akshmi	

Tagging CO	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
After comple	After completion of the course, the student will be able to	Process Level (BL)	(KC)
100	Understand major guidelines and principles related to Quality Assurance and Quality Management.	Understand	Factual & Conceptual
C02	Acquire knowledge of GMP guidelines in the pharmaceutical industry.	Apply	Factual & Conceptual
CO3	Assess procedures for quality control of packing materials and GLP guidelines	Evaluate	Conceptual & Procedural
C04	Analyze various documents relevant to the pharmaceutical Industry.	Analyze	Factual & Conceptual
500	Apply general principles of analytical method Validation, calibration, and qualification of commonly used equipment	Apply	Factual & Conceptual

The same and the same and the											
				Quality A	Quality Assurance (BP606T	BP606T)					
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	2	1	2	1	-	3	1	2	-	2
CO-2	3	2	1	4	1	-	3	2	2	7	2
CO-3	3	2	1	1	1	-	3	-	2	-	0
CO-4	3	2	2	1	1	1	3	1	2		1
CO-5	3	2	1	2	-	1	3	-	2	-	2
PO Target	3	7	1.25	7	-	1	3	1.20	7	1.20	2

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs. Please Note (Reference: OBE Guidelines wef. Session 2023-24) 0.0

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.



Engineering Rank Band (151-200) Pharmacy Runk - 86 Innovation Rank Band (51-100) NIRF-2023







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		NIET SCHOOL OF THEMSELLE	7 7	
Program Nan	Program Name: B. Pharm	Academic Session: Even 2024-25		
Cor rse name	Cot rse name: Medicinal Chemistry -III	Course Code: BP607P		Faculty: Dr. Lalit Mohan Nainwal
Practical				
Tagging COs	agging COs with BLs & KCs			
CO No.	Statement of C	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category

Tagging CO	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
After comple	After completion of the course, the student will be able to	Process Level (BL)	(KC)
	Prepare intermediate compounds and drugs of medicinal	Create	Conceptual & Procedural
C02	Analyze and determine the purity of drug present in the bulk and dosage forms.	Analyze	Conceptual & Procedural
c03	Determine the physicochemical and druglike properties of drugs using drug design softwares.	Evaluate	Conceptual & Procedural
C04	Illustrate chemical reactions and their mechanisms using ChemDraw software.	Analyze	Conceptual & Procedural

			Medicir	Medicinal Chemistry -III Pract	itry -III P	Aedicinal Chemistry -III Practical (BP607P)	P607P)				
Course Code	P0-1	PO-2	PO-3	PO-4	PO-5	9-0d	PO-7	8-0d	6-0d	PO-10	PO-11
CO-1	3	2	3	2	1	-	3	1	1	3	3
200	C	2	3	2	1	ı	3	3	1	1	-
7-00	0 0	1 6	c	3	t	-	-	_	-	1	3
500-3	0 4	"	. "	3	1	-	-	2	1	13	3
DO Toward	. "	2.5	3	2.5	1	-	2	1.75	1	2	2.5

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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

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

and optional parts are Condition and Criteria.













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VI	Faculty: Dr. Abhisbek l'umar		Knowledge Category	(KC)	Conceptual & Procedural	Conceptual & Procedural	Conceptual & Procedural	Conceptual & Procedural
Semester: VI	Faculty: Di		Bloom's Cognitive	Process Level (BL)	Understand	Apply	Apply	Apply
Academic Session: Even 2024-25	Course Code: BP608P				calculation for experimental	periment design and bioassay cology on living tissue and	al, pharmacokinetic analysis	ity studies and biostatistical ology.
Program Name: B. Pharm.	Course Name: Pharmacology-III Practical	Tagging COs with BLs & KCs	Statement of Course Outcome	After completion of the course, the student will be able to	Understand the methods for dose calculation for experimental animals.	Demonstrate the knowledge of experiment design and bioassay process by experimental pharmacology on living tissue and simulation software.	Examine the method of biochemical, pharmacokinetic analysis of biological samples.	Demonstrate the method of toxicity studies and biostatistical analysis in Experimental Pharmacology.
Program Na	Course Nam	Tagging CO.	CO No.	After comple	C01	C02	CO3	C04

Mapping of Course outcomes with Program outcomes CO-POs Matrix		Course Code	CO-1	CO-2	CO-3	CO-4	PO Target
se outcome		PO-1	3	3	3	3	60
s with Pro		PO-2	-	-	1	1	-
gram outc	Pha	PO-3	1	1	1	-	_
omes CO-	Pharmacology-III Practical (BP608P)	PO-4	1	2	2	2	7
POs Matr	-III Pract	PO-5	1	1	1		1
ix	ical (BP60	9-0d	,	1	1		1
	(8P)	PO-7	2	2	2	7	7
		PO-8	1	1	1	-	_
		PO-9	ı	1	r		ï
		PO-10	1	1	1	1	1

PO-11

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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

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Engineering Rank Band (151 200) Pharmacy Rank - 88 Innovation Rank Band (51-100) NIRF-2023











KIET SCHOOL OF PHARMACY

Faculty: Dr. Daksh Bhatia Semester: VI Academic Session: Even 2024-25 Course Code: BP609P Course name: Herbal Drug Technology-Prrctical Program Name: B Pharm.

Touring CO.	with BI c. R. V.C.		
1 agging CO	Lagging COS Will DLS & NCS		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Vanamodoo Cotomony (VC)
After comple	After completion of the course, the student will be able to	Process Level (BL)	Allowicuge Category (NC)
C01	Analyze the photocomposition of crude drugs using various chemical tests.	Analyze	Conceptual, Procedural
C02	Evaluate the marketed Ayurvedic/Herbal formulations on various parameters given in pharmacopoeia.	Evaluate	Conceptual, Procedural
CO3	Develop the herbal formulation with the help of knowledge of herbs and excipients.	Create	Conceptual, Procedural
C04	Evaluate the analysis and evaluation of crude drugs on the basis of pharmacopeial standards.	Evaluate	Conceptual, Procedural

			Herba	Drug Tech	Herbal Drug Technology-Practical (actical (BP	(4609)				
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-O4	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	2	2			1	1	Ю	j	1	2
CO-2	3	2	2	3	1	ı	1		1	,	2
CO-3	3	2	2	1	1	ı	ı	,	,	2	2
CO-4	3	2	2	3	-1	1	1	1			2
PO Target	3	2	7	3	1	1	1	1	,	7	2

de of Course Coordinator

Signature of HoD

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



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Sem-ster: VI Faculty: Kapil Sachan	Academic Session: Even 2024-25 Course Code: BP610P	Program Name: B. Pharm Course name: Report on Industrial Training-1
		The state of the s

Tagging COs	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
After complet	After completion of the course, the student will be able to	Process Level (BL)	(KC)
C01	Layout the functioning of different sections and departments in an Industry or an approved research facility.	Analyze	Factual & Conceptual
C02	Observe the roles and responsibilities of stakeholders in an industry or an approved research facility.	Understand	Factual & Conceptual.
C03	Explore the handling of equipments that are being used inside an industry or an approved research facility.	Apply	Conceptual & Procedural
C04	Acquire knowledge about organizational behavior, methods of official communications inside an organization and its responsibilities towards the environment and the society.	Apply	Factual & Conceptual

Report on Industrial Training-I (BP610P) Course Code PO-1 PO-2 PO-3 PO-4 PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 CO-1 3 1 - 2 1 2 - 1 3 - 3 CO-2 3 3 - - 3 3 3 1 3 CO-3 3 2 - 3 3 3 3 3 3 3 CO-4 2 3 1 3 3 3 3 3 3 3 3 FO Target 2 3 2 3 2 3 2 3	Wapping of Course outcomes with Frogram	outcomes w	IIII Flogian	non I	II outcomes CO-I OS Mati IX	Mattia						
PO-1 PO-2 PO-3 PO-4 PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 3 1 - 2 1 2 - 1 3 - 3 3 - 3 3 3 3 1 1 2 3 - 1 3 1 3 2 - 2 3 - 1 3 3 3 3 3 2.75 2.25 - 1.5 1.5 2.25 3 2 3 2					ort on Indus	strial Train	ning-I (BP6	10P)				
3 1 - 2 1 3 3 - - 3 2 3 - - 3 2 3 - - 1 2 3 - - 1 2 3 - - 1 2 3 - - 1 2 3 - - 1 4 1 - 1 1	Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-Od	PO-7	8-04	PO-9	PO-10	PO-11
3 3 - - 3 3 2 - 3 1 2 3 - - 1 2.75 2.25 - 1.5 1.5	CO-1	3	1	1	2	-	2	1	1	3	-	3
3 2 - 3 1 2 3 1 2.75 2.25 - 1.5 1.5	CO-2	3	60	i	1	3	3	3	3	3	1	3
2.75 2.25 - 1.5 1.5	CO-3	3	2	1	3	1	1	3	1	3	2	3
2.75 2.25 - 1.5 1.5	CO-4	2	3	,		-	3	3	3	3	5	3
	PO Target	2.75	2.25	1	1.5	1.5	2.25	3	2	3	7	3

Signature of Addl. HoD

Signature of HoD

Signature of Course Coordinator

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

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

and ontional parts are Condition and Criteria.



Engineering Rank Band (151-200) Pharmacy Rank - 88 Innovation Rank Band (51-100) NIRF-2023

Delhi-NCR, Ghaziabad











Faculty: D	Program Name: B. Pharm	Academic Session: Even 2024-25	Semester: VIII
		Course Code, RP80fT	Faculty: Dr Neelam Shgrma

Tagging COs	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
After complet	After completion of the course, the student will be able to	Process Level (BL)	(KC)
100	Apply the role of biostatistics, concept of central tendency, dispersion and Correlation coefficient to solve pharmaceutical problems.	Apply	Conceptual & Procedural
C02	Examine the concept of probability and its applications to the problem related to probability distributions along with the statistical method of data samples.	Apply	Conceptual & Procedural
C03	Apply the non-parametric tests in the need of research design of experiment, along with the concept of graphs to designing the methodology.	Apply	Conceptual & Procedural
CO4	Understand the concept of Regression Modeling and understand the operation of M.S. Excel. SPSS. R and MINITAB, DOE (Design of Experiment).	Understand	Factual & Conceptual
500	Demonstrate the concept of design, analysis of experiments and apply the optimization techniques in solving the problems.	Apply	Conceptual & Procedural

Biostatistics & Research			Biostati	Siostatistics & Research Methodology (BP801T)	earch Meth	odology (B	P801T)				
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-Od	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	2	-	-	П	1	-	1	1	r	ř	
CO-2	2	3.	2	-	,	ı	í	-	t:		-
CO.3	-	-	2	-	1	ı	1	t	r	,	
CO-9	2	2	2	2	1	1	*	ı		*	1
CO.5	2	2	-	2	1	1			,	1	-
PO Target	1.8	1.4	1.6	1.4	1	1	1	1			1

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

- The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
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Engineering Rank Band (151-200) Pharmacy Rank - 88 Innovation Rank Band (51-100) NIRF-2023

Delhi-NCR, Ghaziabi









KIET SCHOOL OF PHARMACY Connecting Life with Learning

Progress Name R Pharm	Academic Session: Even 2024-25	Semester: VIII
I Ogram Hame Divingini		A
Course name: Social and Preventive Pharmacy	Course Code: BP802T	Faculty: Ms. Sreena M

Tehta

Tagging CO:	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cegnitive	Knowledge Category
After comple	After completion of the course, the student will be able to	Process Level (BL)	(KC)
001	Elaborate the various concepts of health and diseases with reference to public	Understand	Factual & Conceptual
C02	Acquire the knowledge of general principles for prevention and control of	Apply	Factual & Conceptual
C03	Outline the important attributes of various National Health Programmes in	Analyze	Factual & Conceptual
CO4	Explore various National Health Programmes and role of WHO in Indian	Analyze	Factual & Conceptual
CO5	health program in context with public health Illustrate the role of community services in rural, urban and school health	Apply	Factual & Conceptual

Social and Preventive F			Socia	l and Preve	entive Phar	Social and Preventive Pharmacy (BP802T)	02T)				
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d	PO-7	8-Od	PO-9	PO-10	PO-11
100	c	1	2	ı	1	3	3	2	3	1	3
1-00	, ,		2			3	3	3	3	,	3
CO-7	2						r	c	6		6
CO.3	3	1	7		1	3	3	0	0	,	0
200	0 00	1	2		t	3	3	3	3	,	3
4-00	0		1 0			c	c	2	,	,	ce
CO-5	3	1	2	1	1	2	0	0	0		
DO Toward	2		7	1	1	3	3	2.8	3	1	3
FO Larget	2										-

se Coordinator Signature 9

Signature of Addl. HoD

Signature of HoD

- The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and ontional parts are Condition and Criteria. 0.0







Semester: VIII Faculty: Ms. Snikha Kaushik	2024-25
NO.	Academic Session: Evan 2024-25 Course Code: BP803ET

Tagging CO	Tagging COs with BI.s & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
After comple	After completion of the course, the student will be able to	Process Level (BL)	(KC)
C01	Apply the basic concepts of marketing and their application in pharmaceutical	Apply	Factual & Conceptual
000	Illustrate product management in the pharmaceutical industry.	Apply	Factual & Conceptual
200	Al promotional techniques for pharmaceutical products.	Analyze	Factual & Conceptual
300	Analyze various promotorial community for promotorial promotorial channels.	Apply	Factual & Conceptual
÷00	Ascertain the objectives and importance of price management in the	Apply	Conceptual
cos	pharmaceutical industry.		

Tanning of Course	outcomes w	ith Prograr	m outcomes	s CO-POs Matrix	Matrix				
Swed day			Pharm	n Marketin	ig Manager	nent (BP80	3ET)		
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d	L-0d	PO-8	PO-9
Course cour	101							c	c
CO-1	2	3	en	_	m	3	7	7	C
()						,	c	2	e*
0.00	3	n	7	2	2	0	7	0	0
7-00						c	0	2	6
CO.3	2	3	3	3	1	3	2	0	0
200			,	c	3	0		cr	65
CO.4	2	3	3	7	2	7	7		
			c	2	,	7	cr		
CO-5	3	7	2	0	7	2)	

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PO-11

PO-10

Signature of Course Coordinator

Signature of Addl. HoD

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PO Target

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

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

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Engineering Rank Band (151-200) Pharmacy Rank - 68 Innovation Rank Band (51-100) NIRF-2023









KIET SCHOOL OF PHARMACY

ogram Name: B. Pharm.	Academic Sessior: Even 2024-25	Semester: VIII
urse name: Computer Aided Drug Design	Course Code: BP807ET	Faculty: Dr. Garima Kapoor

CO No. fter completi	After completion of the course, the student will be able to CO1 Elaborate the basic concepts of CADD and rational approaches to drug	Bloom's Cognitive Process Level (BL)	Knowledge Category (KC)
	Understand the concept of QSAR, descriptors and various approaches.	Understand	Factual & Conceptual
	Acquire knowledge of virtual screening techniques and molecular docking.	Apply	Factual & Conceptual
	Explore about bioinformatics and cheminformatics in pharmaceutical drug discovery	Apply	Factual & Conceptual
	Explore objectives and importance of molecular mechanics and quantum mechanics in drug discovery.	Apply	Factual & Conceptual

		PO-11	3	2	3	3	3	2.8
		PO-10	1	-	1		1	1
		PO-9	2	2		1	r	2
		8-0d	2	3	2	2	-	2
	ET)	PO-7		1				1
	gn (BP807ET)		2	2	-	2	1	1.75
latrix	Drug Desi	PO-5	1	2	1	2	1	2
CO-POS Matrix	Computer Aided Drug Design	PO-4			3	2	3	5.6
1 outcomes	Comp	PO-3	3	2	1	3	3	2.75
th Progran		PO-2	3	1	1	,	1	3
utcomes wi		PO-1	3	2	-	2	3	2.2
Mapping of Course outcomes with Progr		Course Code	CO-1	CO-2	CO-3	CO-4	CO-5	PO Target

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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

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



Engineering Rank Band (151-200)
Pharmacy Rank - 88
Innovation Rank Band (51-100)











NAAC WITH Grade Av	Semester. VIII	Tourse D. Monibo Konnay
Definition character Connecting Life with Learning KIET SCHOOL OF PHARMACY	Academic Session: Even 2024-25	
nevetion Rank Band (\$1-100) Delhi-NCR, Ghazlabad	oursm Name: B Pharm.	Eldin ton . De l'incere

Course Code: BP809ET

Course name: Cosmetic Science

Faculty: Dr. Monika Kaurav

Pranima CO	with PI c & ICCe		
Lagging CO	Lagging COs will bus a nes		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
A flor complet	A Age completion of the course the student will be able to	Process Level (BL)	(KC)
Allel compie	begins of the control of the base of the b	Apply	Conceptual & Procedural
001	Illustrate the structures of skin, hair, and oral cavity with associated	C.AA.	
	problems and study of basics of cosmetic and cosmecentical products		Dungley Dungley
000	Illustrate the principles of formulation and building blocks of skin care &	Apply	Conceptual & Floceuman
700	Hair care products		
000	Demonstrate the role of herbs in cosmetics and analytical methods of	Apply	Factual, Conceptual &
cos	cosmetics evaluation.		rioccumai
700	Analyze the instrumental methods and their principle in cosmetics	Analyze	Factual & Conceptual
400	evaluation.	•	Total P. Concentio
500	Explore the cosmetic problems associated with Hair, scalp and skin.	Apply	ractual & Conceptual
3			

				Course N	Jame (Cour	se Code)					
Course Code	PO-1	PO-2	PO-3	PO-4	PO-3 PO-4 PO-5 PO-6 PO-7	9-0d	PO-7	PO-8	PO-9	PO-10	PO-11
Course cours							c		C		
00-1	3	1	3	1	3	7	7		1		
1-00						•	,		c		
6003	3	1	7	1	7	7	7		4		
7-00							0	1			
003	3	/1	7	i	1		7		1		
200			(1	0	2		1	2	
CO-4	3	L	7			1				-	
100			2	,	7		7		7	-	
CO-5	3	1	1				•		1 75	1 22	
200	2	1	2.2	•	2.33	7	7	1	1.15	1.33	

Signature of Course Coordinator

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

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

and optional parts are Condition and Criteria. * ÷



Engineering Rank Band (151-200) Pharmacy Rank - 88 Innovation Rank Band (51-100)

Program Name: B. Pharm









Connecting Life with Learning KIET SC

Academic Session: Even 2024-25

NAAC with Grade "A+"

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Somester: VIII Faculty: Mr. Debaprasad Ghosh Course Code: BP814PW Course name: Project Work on Elective Tagging COs with BLs & KCs

Tangaring Co.	Languing CO		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
A fter complet	After completion of the course, the student will be able to	Process Level (BL)	(NC):
100	Acquire the rationale behind performing project work in a specific elected area of pharmacy and expertise in data mining, literature reviewing, and	Apply	Conceptual & Procedural
C02	Analyze the implementation of available knowledge and technology to cater	Analyze	Conceptual & Procedural
03	Evaluate the potential role of new findings and their conversion into	Evaluate	Conceptual & Procedural
C04	Develop novel theories, ideas, products, analytical methods, procedures, and	Create	Conceptual & Procedural
	techniques in a specific elected and in primary		

Mapping of Course Outcomes with 1 bg. and 1 bg. an		II SOme Organia	ith Program	1011	fromes CO-POs Matrix	Matrix						
PO-1 PO-2 PO-3 PO-4 PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 3 1 2 - - 1 - 1 - 1 - 3 2 2 3 - 1 1 - 2 - 3 1 2 2 - 1 1 - 2 - 3 1 2 2 - 1 1 - 2 - 3 1.5 2 2 - 1 1 - 1.5 -	Mapping of Course	Outcomes w	TILL I TOBIA	0.00	oiect Work	on Elective	e (BP814PV	W)				
PO-1 PO-2 PO-3 PO-4 PO-5 PO-6 PO-7 PO-8 PO-9 PO-10 3 1 2 - 1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 2 - - 1 - 2 - - 1 - 2 - - - - 1 - 2 - - - - 1 1 - 2 - <				-						0 0 1	0+ 00	DO 11
3 1 2 - - 1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 2 - - 1 - 2 - - 2 - - 1 - 2 -	-	1 00	DO-2	PO-3	PO-4		9-0d	PO-7	PO-8	PO-9	PO-10	FO-11
3 1 2 - - 1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - - 1 - - 1 - <td>Course Code</td> <td>1-5-1</td> <td>101</td> <td></td> <td>TOTAL IN</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>0</td>	Course Code	1-5-1	101		TOTAL IN					1		0
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3 2 2 1 - 1 1 - 2 - 3 1 2 2 - 1 1 - 2 - 3 1.5 2 2 - 1 1 - 2 -			c	c	3	•	_	-	î	-	1	1
3 2 2 1 - 1 1 - 2 3 1 2 2 - 1 1 - 2 - 3 1.5 2 2 - 1 1 - 2 -	CO-2	3	7	1								c
3 2 2 1 1 2 2 1 1 1 2 2 1 1 1 1 1 1 1 1 2 2 1 <td></td> <td></td> <td></td> <td>•</td> <td>1</td> <td></td> <td>-</td> <td></td> <td>1</td> <td>7</td> <td></td> <td>7</td>				•	1		-		1	7		7
3 1.5 2 2 - 1 1 1 - 2 2 - 1.5 - 3	CO.3	3	7	7	1							0
3 1.5 2 2 2 1 1 1 2 1.5 -	200			-	c		_		•	7		7
3 1.5 2 2 2 - 1 1 1.5	CO-4	3	_	7	7			,		4 4		2
S List		,	4 10	•	0	1	_	-	1,	L+1		1
	DO Target	3	C.I	1	1							-

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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

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and optional parts are Condition and Criteria. 0.0



Engineerin's Rank Band (151-200) Pharmacy Rank - 88 Innovation Rank Band (51-100) NIRF-2023









KIET SCHOOL OF PHARMACY

Program Na	Program Name: B. Pharm	Academic Session: Even 2/24-25	Semester: VIII	
Course name	Course name: Report on Industrial Tour	Course Code: BP516P	Faculty: Ms. Vidhu Saxena	idhu Saxena
Tagging CO	Tagging COs with BLs & KCs			
CO No.	Statement of	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
After comple	After completion of the course, the student will be able to	able to	Process Level (BL)	(KC)
C01	Observe the different sections and o	Observe the different sections and departments of pharmaceutical industry	Understand	Factual, Conceptual & Procedural
C02	Elaborate the manufacturing pro pharmaceutical industry	Elaborate the manufacturing process of different formulations in the pharmaceutical industry	Understand	Factual, Conceptual & Procedural
CO3	Analyze the rules and regulations related with pharmaceutical industry	elated with pharmaceutical industry	Analyze	Factual & Conceptual
CO4	Acquire professional ethics and re	Acquire professional ethics and responsibilities towards the environment	Apply	Conceptual

Report on Industria			Re	port on Inc	Report on Industrial Tour (BP816P)	ur (BP8161	()				
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d	PO-7	PO-8	PO-9	PO-10	PO-11
CO-1	3	-	-	3	,	-	1	1	1	-	3
CO-2	3	-	-	3	,	-	1	-	1	-	3
CO-3	3	-	-	1	1	3	1	3	_	-	2
CO-4	-			1	3	1	3	ť	-	3	3
PO Target	2.5	1	-	3	3	1.5	3	1.67	-	1.5	2.75

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Signature of Course Coordinator

Signature of Addl. HoD

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Engineering Rank Band (151-200) Pharmacy Rank - 88 Innovation Rank Band (51-100)

NIRF-2023

Program Name: M. Pharm (Pharmaceutics)

Course name: Melecular Pharmaceutics

Tagging COs with BLs & KCs













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Semester: II

Faculty: Pref. (Dr.) NGR RAO

Academic Session: Even 2024-25

Course Code: MPH201T

Elaborate the concept, factors influencing & biological approaches in Targeted

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

CO1

Statement of Course Outcome

drug delivery systems, Tumor targeting and Brain specific drug delivery systems.

Assess the formulation, and evaluation of Nanoparticles and Liposomes.

Explore the methods for formulation, preparation and applications of Monoclonal

Apply the concept of Nucleic acid based therapeutic drug delivery

CO5

C04

CO3

C02

nasal route of drug delivery systems.

Bloom's Cognitive

Knowledge Category Factual & Conceptual Process Level (BL)

(KC)

Conceptual & Procedural Conceptual & Procedural Understand Evaluate Apply

Conceptual & Procedural

Conceptual & Procedural

Apply Apply

antibodies, Microspheres, Niosomes, Aquasomes, Phytosomes and Electrosomes.

Illustrate the recent advancement in Pulmonary drug delivery systems and Intra

Mapping of Course outcomes with Program outcomes CO-POs Matrix PO-5 PO-4 Molecular Pharmaceutics (MPH201T) O PO-3

PO-2

PO-1

Course Code

CO-1

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> CO-3 CO-2

CO-4 CO-5 Signature of Course Coordinator

PO Target

Signature of Addl. HoD

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

The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs. .

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				After completion of the course, the student will be able to	After completion of the co
(KC)	Process Level (BL)	Proce		of olde at Him took who all a	1 Cul
Knowledge Ca	Bloom's Cognitive	Bloor	se Outcome	Statement of Course Outcome	CO No.
				r KCs	Tagging COs with BLs & KCs
Faculty: Prof. (Dr.) Ashu Mitt	Faculty: Pro		Course Code: MPH202T	Biopharmaceutics and	Course name: Advanced Biopharmaceutics and Pharmacokinetics
1 1 1 1 1 1 1	Semester: II	2024-25	Academic Session: Even 2024-25	m Pharmaceutics	Program Name: M. Pharm Pharmaceutics
		ACY	KIET SCHOOL OF PHARMACY	KIE	
NAAC with Grade "A+"	NAAC with Grade		Connecting Life with Learning	www.kief.edu Connectir	Pharmacy Rank - 88 Innovation Rank Band (51-100)
So.	NAAC	3	GROUP OF INSTITUTIONS		FRAMEWORK NIRF-2023 Engineering Bank Band (151-200)
	THE PARTY OF THE P			100	RANKING

		1001
Apply pharmacokinetic principles to the understanding of modified-release	Apply	ractual & Con
drug products, targeted drug delivery systems, and oroccurrence from		
Mapping of Course outcomes with Program outcomes CO-POs Matri	s Matrix	

Conceptual & Procedural

Analyze

Factual & Conceptual

Factual & Conceptual

Analyze Apply

Apply

kinetics, and drug interactions to predict and optimize drug behavior and its

Analyze the bioequivalence of drug products.

C04 CO5

CO3

C02

effects on therapeutic outcomes.

Apply the pharmacokinetic models of compartmentalization, non-linear

absorption rate, formulation characteristics, dissolution testing methods, and Analyze the biopharmaceutical factors, including drug bioavailability

in vitro-in vivo correlation, to optimize drug product performance.

ategory

Factual & Conceptual Factual & Conceptual

Apply

Acquire the mechanisms and factors involved in drug absorption and drug

dissolutions.

C01

Bo-1 PO-2 PO-3 PO-4 PO-5 1 - 1 - - 3 1 2 2 - 3 1 3 2 1 3 1 3 2 1 3 1 3 2 1 2.6 1 2.4 2 1	Advanced Biopharmaceutics and Pharmacokinetics (MPH202T)	iopharma	ceutics and	1 Pharmac	cokinetics	(MPH202	T)
3 1 3 1 3 1 3 1 1 3 1 1 2.6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-Od
3 1 3 1 3 1 2.6 1	CO-1	-	1	1	1	1	t
3 1 2.6 1	CO-2	3	1	2	2	1	1
3 1 2.6 1	CO-3	3	-	3	2	-	1
3 1 2.6 1	CO-4	3	-	3	2	-	1
2.6 1	CO-5	3	-	3	2	-	'
	PO Target	2.6	1	2.4	7	-	,

Signature of Addl. HoD

Signature of HoD

Please Note (Reference: OBE Guidelines wef. Session 2021 - 22) Signature of Course Coordinator

The theory courses/ project having credits 3 to 6 should have 5 number of COs. The laboratory course/ mini project/ seminar/ industrial_fraining 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.



Enc'neering Rank Band (151-200) Pharmacy Rank - 68 Innovation Rank Band (51-100) NIRF-2023











KIET SCHOOL OF PHARMACY Connecting Life with Learning

Program Name: M. Pharm Pharmaceutics	Academic Session: Even 2024-25	Semester: II
The state of the s		
Course name: Computer Aided Drug Delivery Systems	Course Code: MPH203T	Faculty: Dr. L. kshmi

agging COs	Lagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
After complet	After completion of the course, the student will be able to	Process Level (BL)	(KC)
C01	Elaborate the concepts of Computers in Pharmaceutical Research and Development; Quality-by-Design in Pharmaceutical Development with its applications.	Understand	Factual & Conceptual
C02	Apply the principles and techniques of Computational Modeling of Drug Disposition.	Apply	Factual & Conceptual
CO3	Analyze the various aspects of Computer-Aided Formulation Development with special reference to emulsion and micro-emulsions.	Analyze	Conceptual & Procedural
CO4	Illustrate the concept of Computer-Aided Biopharmaceutical Characterization, Computers in Clinical Development and Computer Simulations in Pharmacokinetics and Pharmacodynamics.	Apply	Factual & Conceptual
500	Interpret the components of Artificial Intelligence (AI), Robotics and Computational Fluid Dynamics.	Understand	Factual & Conceptual

Mapping of Course outcomes with Program outcomes CO-POs Matrix	Computer Aided Drug Delivery Systems (MPH203T)	Course Code PO-1 PO-2	CO-1 3 -	CO-2 3 -	CO-3 3 -	CO-4 3 2	CO-5 3 -	PO Target 3 2
h Program ou	Jelivery Syste	PO-3	3	3	3	3	3	က
tcomes CO	ms (MPH2)	PO-4	3	3	3	3	3	3
-POs Mati	03T)	PO-5	.1	1		_	7	1.5
rix		9-0d	,	,	r	ı	1	

Signature of Course Coordinator Ratchini

Signature of Addth HoD

Signature of HoD

The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs. Please Note (Reference: OBE Guidelines wef. Session 2023-24)

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. 0.0



NIRF-2023 Engineering Rank Band (151-200) Pharmacy Rank - 88 Innovation Rank Band Innovation









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Innovation Rank Band (51-100)	Dethi-NCR, Ghaziabad	KIET SCHOOL OF PHARMACY	NAAC with Grade "A+"	de "A+"
Program Nai	Program Name: M. Pharm Pharmaceutics	Academic Session: Even 2024-25	Semester: II	
Course name	Course name: Cosmetics and Cosmeceuticals	Course Code: MPH204T	Faculty: Dr. Anu: Pathak	r. Pathak
Tagging COs	Tagging COs with BLs & KCs			
CO No.	Statement of C	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category
After comple	After completion of the course, the student will be able to	e to	Process Level (BL)	(KC)
. CO1	Apply the Indian regulatory requirements for labeling of cosmetics. Regulatory provisions relating to import and manufacturing of cosmetics.	rements for labeling of cosmetics rt and manufacturing of cosmetics.	Apply	Conceptual & Procedural
C02	Analyze the skin, Hair & other body parts (oral cav hands, feet, nail, scalp, neck, body) related problems.	Analyze the skin, Hair & other body parts (oral cavity, face, eye lids, lips, hands, feet, nail, scalp, neck, body) related problems.	Analyze	Conceptual & Procedural
CO3	Apply the building blocks for the deformulations of cosmetics/cosmeceuticals.	Apply the building blocks for the development of different product formulations of cosmetics/cosmeceuticals.	Apply	Conceptual & Procedural
C04	Analyze the Design of cosmeceutical products.	products.	Analyze	Conceptual & Procedural

Conceptual & Procedural

Apply

Apply the herbal ingredients for the development of Hair care, skin care

and oral care herbal cosmetics.

CO5

Mapping of Course outcomes with Program outcomes CO-POs Matrix	onuse onic	omes with 1		derines co	T OS MAGILE	
Course Code	PO-1	PO-1 PO-2 PO-3 PO-4	PO-3	PO-4	PO-5	9-0d
CO-1	3	1			2	
CO-2	3	-	2	2	1	1
CO-3	3	1	1	-	f	-
CO-4	3	-	2	-	-	1
CO-5	3	-	-	-	1	1
PO Target	3	-	1.4	1.25	1.33	1

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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



Engineering Rank Band (151-200) Pharmacy Rank - 88 Innovation Rank Band (51-100)









KIET School of Ph:

Academic Session: Even 2024-25

Course Code: MPH205P

Course name: Pharmaceutics Practicals - II Program Name: M. Pharm Pharmaceutics

Faculty: Dr. Snigdha Bhardwaj

Semester: II

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Tagging COs	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge
After complet	After completion of the course, the student will be able to	Process Level (BL)	Category (KC)
C01	Explore experiments on formulation and evaluation of novel drug delivery systems	Analyze	Conceptual &
C02	Assess the formulation using quality by design approach and regression analysis of the data	Evaluate	Conceptual & Procedural
CO3	Develop the herbal and conventional cosmetics for skin care purpose	Create	Conceptual & Procedural

Map	ping of Cour	rse outcomes	Mapping of Course outcomes with Program outcomes CO-POs Matrix	outcomes CC	POs Matrix	
	Ph	armaceutics	Pharmaceutics Practicals - II (MPH205P)	(MPH205P)		
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d
CO-1	3	2	3	3	3	1
CO-2	3	2	3	3	3	
CO-3	3	2	3	3	3	-
PO Target	3	2	3	3	3	1

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

- 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. ÷



NIRF-2023 Engineerirg Rank Band (1ST-200) Pharmacy Rank - 88 Innovation Rank Band (51-100)









KIET SCHOOL OF PHARMACY

rmaceutics Academic Session: Even 2924-25 Semester: II				Statement of Course Outcome Bloom's Coonifive		Discuss the effective technical and regulatory aspects of pharmaceutical Understand industries through presentations and discussions	Apply innovative solutions and methodologies in pharmaceutics through Apply collaborative discussions for enhanced learning
Program Name: M. Pharm Pharmaceutics	Course Name: Seminar	Pagaing Co with DI . 9. 17	ragging COS Willi DLS & NCS	CO No.	After completion of the course, the student will be able to	CO1 Discuss the ef	CO2 Apply innovati

Conceptual & Procedural

Create

Develop structured, well-documented reports demonstrating research and

analytical skills.

CO3

C04

Apply problem-solving skills by applying theoretical knowledge to practical

scenarios and case studies in pharmaceutical industries.

Conceptual & Procedural

Apply

		Seminar (MF	Seminar (MPH206S)			
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6
CO-1		3	1	2		
CO-2	2	3	2	2		
CO-3	1	3	2	0		0 (
CO-4	2	3	2	2 2		0 0
PO Target	2	3	2			0 (

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

- The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.
- The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are consumed and and optional parts are Condition and Criteria. 0.0



NIRF-2024 Engineering Rank Band (151-200) Pharmacy Rank - 77 Innovation Rank Band (11-50)









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agging COs	agging COs with BLs & KCs		
CO No.	Statement of Course Outcome		
	one or other states of the	Bloom's Cognitive	Knowledge
After complet	After completion of the course, the student will be able to	Process Level (RL)	Catagomicage
	Analyze the methodology and asset it is	(77)	Category (AC)
C01	journal articles related to advancements in pharmaceutics to identify their strengths and limitations.	Analyze	Conceptual, Procedural
10	Evaluato the committee of the committee		
C02	to address challenges in drug formulation and delivery existence	Evaluate	Conceptual,
	Anny knowledge going to continue and utility systems.		Procedural
C03	for solving pharmaceutical problems, fostering critical thinking and research skills	Apply	Conceptual,
	de la company de		Procedura

		Course Name (Course	Course Name (C	Course Code)		
Course Code	PO-1	PO-2	PO-3	PO-3 PO-4	PO-5	A-Oq
CO-1	3	3	n			201
, , ,		1			,	7
7-00	3	2	m	3	cr	0
CO-3	3	cc	cr			7
		0	0	2	c	2
PO Target	3.00	3.00	3.00	3.00	3 00	000

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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NIRF-2024 Engineering Rank Band (151-200) Innovation Rank Band (11-50)



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KIET SCHOOL OF PHARMACY

December Name M Pharm Pharmaceutics	Academic Session: Even 2024-25	Semester: 1V
I logiam Mame, M. Manin A man maccarre		1.1
Course name: Discussion/Presentation (Proposal	Course Code: MRM402P	Faculty: Dr. Smgdha
Presentation)		

na Bhardwaj

acoino COs	agoging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge
for complet	A flar completion of the course the student will be able to	Process Level (BL)	Category (KC)
CO1	Identify significant pharmaceutics research problems, formulate clear and	Apply	Conceptual & Procedural
C02	Explore innovative solutions to address gaps in developing effective drug delivery	Analyze	Conceptual & Procedural
C03	Draw a robust developmental strategy, including preformulation approaches, formulation, advanced evaluation techniques, and statistical tools, to ensure the	Evaluate	Conceptual & Procedural
C04	Defend the research proposal coherently with scientific evidence, and discussions.	Evaluate	Conceptual

uning of Course outcomes with Progra	outcomes w	ith Program	n outcomes	outcomes CO-POs Matrix	Tatrix	
Discussiv	on/Presenta	tion (Proposal Prese	43	ntation) (MRM402P)	(M402P)	
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d
CO-1	3	1	3	3	3	•
CO-2	m	2	3	3	3	1
CO-3	23	2	3	3	3	1
CO-4	3	2	33	3	3	2
PO Target	3	2	3	3	3	2

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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

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



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KIET SCHOOL OF PHARMACY

n Mana M Dhoum Dhoumocontice	Academic Session: Even 2024-25	Semester: 1V
Proofam Name: M. I halm I halmaceures		11. Diam.
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Course name: Account and the course		

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Tagging COs	Tagging COs with BLs & NCs		W-seededon
CO No.	Statement of Course Outcome	Bloom's Cognitive	Cotton (VC)
A fler complet	After completion of the course the student will be able to	Process Level (BL)	Category (INC)
CO1	Acquire the ability to design and execute pharmaceutical delivery independently, utilizing appropriate advanced analytical tools, and ethical practices crucial for	Apply	Conceptual & Procedural
	developing drug delivery systems.		Concentual &
C02	Explore various in vitro and in vivo models for and evaluating drug delivery	Evaluate	Procedural
	systems.		
CO3	Assess experimental data using statistical and computational tools, identifying trends, solving complex pharmaceutical problems, and drawing meaningful	Evaluate	Conceptual & Procedural
	conclusions that contribute to drug development.		
100	Document the research findings in the form of reports or manuscripts, and	Evaluate	Conceptual
500	submission of research reports.		

		141 D.	1	CO DO	Matrix	
Mapping of Course outcomes with Program Discussion/Presentation (Propo	outcomes w	tion (Proportion	n outcome	Presentation) (MRM402P)	(M402P)	
Course Code	P0-1	PO-2	PO-3	PO-4	PO-5	PO-6
00-1	3	1	3	3	2	
CO-2	3	2	3	3	2	
CO-3	3	2	3	3	2	
CO-4	3	2	3	3	2	
PO Target	3	2	3	3	2	



Signature of Addl. HoD

Signature of HoD

- The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs. 0.0
- 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.



NIRF-2023 Engineering Rank Band (ITI-200) Pharmacy Rank - 86 Innovation Rank Band (51-100)









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Semester: II

Faculty: Dr. Shardendu Kumar Mishra

Course Code: MPL201T

Course Name: Advanced Pharmacology-II Program Name: M. Pharm Pharmacology

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ting Life with Learning	Academic Session: Even 2024-25

		Knowledge Category	(KC)	Factual & Conceptual	Conceptual & Procedural	Factual & Conceptual	Factual & Conceptual	Factual & Conceptual
		Bloom's Cognitive	Process Level (BL)	Understand	Apply	Analyze	Evaluate	Analyze
OCCUPATION OF VICE	Lagging COS Will BLS & NCS	Statement of Course Outcome	After completion of the course, the student will be able to	Elaborate the molecular and cellular mechanisms of hormone action, pharmacological interventions in endocrine disorders, including diabetes and thyroid dysfunction.	Explore strategic approaches to overcome antimicrobial resistance by applying the cellular	Analyze evidence-based therapeutic regimens for protozoal and helminthic infections, cancer chemotherapy, and immunomodulation by integrating knowledge of immunombarmacology and inflammatory mediators.	Evaluate chronopharmacological principles with disease pathophysiology to optimize treatment strategies for conditions like cardiovascular diseases, diabetes, asthma, and peptic	Blueprint the novel antioxidant-based therapeutic approaches through free radical generation, oxidative stress-related pathologies, and recent advancements in treating neurodegenerative disorders and cancer.
	Lagging	CO No.	After con	100	C02	003	C04	500

	Advanced Pha	Advanced Pharmacology-II (MPL201T)	V-II (MPL201T)			
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6
CO-1	-	1	-	2	2	1
5-05	-	1	1	2	2	
700			-	2	2	1
500	-	_	-	2	2	,
4-00		-		2	2	
DO Tornot	-	1	1	2	7	

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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

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The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have + number of COs.

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



NIRF-2023 Engineering Rank Band (151-200) Pharmacy Rank - 68 tonovation Rank Band (51-100)















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Prooram	Proorsm Name: M. Pharm Pharmacology	Academic Session: Even 2024-25	Semester: II	
Course N Screening	Course Name: Pharmacological and Toxicological Screening Methous-II		Faculty: Dr. A	Faculty: Dr. Abhishe's Kumar
Tagging	Tagging COs with BLs & KCs			
CO No.	Statement of Course Outcome	irse Outcome	Bloom's Cognitive	Knowledge Categor
After con	After completion of the course, the student will be able to	to e	Process Level (BL)	(KC)
C01	Apply the basics and regulatory guidelines for conducting toxicity studies.	for conducting toxicity studies.	Apply	Conceptual & Procedur
C02	Illustrare OECD Guidelines for Acute, sub-acute and chronic- oral, dermal and inhalational studies.	ub-acute and chronic- oral, dermal and	Apply	Conceptual & Procedur
C03	Examine the concepts of reproductive toxicity and genotoxicity.	city and genotoxicity.	Apply	Conceptual & Procedura
C04	Explore the IND enabling studies and safety pharmacological studies.	ty pharmacological studies.	Apply	Conceptual & Procedura
500	Evaluate the toxicokinetic assessments in various studies and alternatives to animal testing.	various studies and alternatives to animal	Evaluate	Conceptual & Procedura

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Course outcomes with Program outcomes CO-POS Matrix	Program outcomes	CO-FOS Matrix				
	Pharmacological and Toxicological Screening Methods-II (MPL202T)	1 Toxicological Scr	reening Methods-II	(MPL202T)		
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d
CO-1	3	i	-		60	1
CO-2	3	1	-	ŧ	3	1
CO-3	3	1	_	E:	3	1
CO-4	3	ı	1	1	3	'
CO-5	3		-	-	3	
PO Target	3	1	-1	1	3	

Signature of Course Coordinator

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- The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and Criteria. 00



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Engineering Rank Band (151Pharmacy Rank - 88
Innovation Rank Band (51-1

Course Name: P

Program Name:

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RF-2023 Pank Band (151-200)		GROUP OF INSTITUTIONS	「	NAAG
acy Rank - 88 Rank Band (51-100)	www.kiet.edu	Connecting Life with Learning	ACC NAAC W	Accredited by NAAC with Grade "A+"
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Name: M. Phar	Name: M. Pharm Pharmacology	Academic Session: Even 2024-25	Semester: II	
lame: Principles	ame: Principles of Drug Discovery	Course Code: MPL203T	Faculty: Dr.	Faculty: Dr. K. Nagarajan
COs with BLs & KCs	KCs			
	Statement of	Statement of Course Outcome	Bloom's Cognitive	Knowledge Ca
upletion of the co	upletion of the course, the student will be able to	be able to	Process Level (BL)	(KC)
Apply combin techniques for l	atorial chemistry, h	Apply combinatorial chemistry, high-throughput screening, and in silico techniques for lead identification and optimization in drug discovery.	Apply	Conceptual & Pr
Examine the identification a	role of genomics, printer and validation to unde	Examine the role of genomics, proteomics, and bioinformatics in target identification and validation to understand their impact on drug discovery.	Analyze	Conceptual & P.
Assess the effe structure-based a drug candidates.	fectiveness of ratio and pharmacophores.	Assess the effectiveness of rational drug design approaches, including structure-based and pharmacophore-based methods, in developing potential drug candidates.	Evaluate	Conceptual & Pr
Compare vari	ous molecular docki	Compare various molecular docking techniques, such as rigid, flexible, and manual docking, to determine their relevance in virtual screening.	Evaluate	Conceptual & Pr

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Conceptual & Procedural

Evaluate

Evaluate QSAR models and prodrug strategies to improve drug solubility, bioavailability, and targeted delivery for enhanced therapeutic efficacy

C04

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C02

CO3

rocedural

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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



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Program Name: M. Pharm Pharmacology

Course name: Clinical Researth and

Pharmacovigilance

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'aculty: Dr. Roma Ghai	
Course Code: MPL204T	

	Knowledge Category	(KC)	Factual & Conceptual	Factual & Conceptual	Factual & Conceptual	Factual & Conceptual	Factual & Conceptual
	Bloom's Cognitive	Process Level (BL)	Understand	Analyze	Apply	Apply	Analyze
Tagging COs with BLs & KCs	Statement of Course Outcome	After completion of the course, the student will be able to	Elaborate the regulatory perspectives of Clinical trials.	Explore the types of Clinical Trial designs and the roles of stakeholders involved in Clinical trials.	Apply the various guidelines for preparation of regulatory documents of Clinical trials and management of adverse drug reactions.	Illustrate the establishment and scope of Pharmacovigilance in India and global with emphasis on WHO International Drug Monitoring Programme.	Analyze various ADR reporting systems and the concepts of Pharmacoepidemiology, Pharmacoeconomics and Safety Pharmacology
ragging CO	CO No.	After comple	C01	C02	C03	C04	500

		P(
	14T)	PO-4	.1
	ovigilance (MPL204T)	PO-3	,
n outcomes CO-POs Matrix	Clinical Research and Pharmac	PO-2	-
Program outcomes	Clinical Reso	P0-1	
Mapping of Course outcomes with Prograr		Course Code	CO-1

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0-5

0 2 2 2 PO Target CO-3 CO-5 CO-4 CO-2



Signature of Addl. HdD

Signature of HoD

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



Engineering Rank Band (151-200)
Pharmacy Rank - 88
Innovation Rank Band (51-100)











KIET SCHOOL OF PHARMACY

Connecting Life with Learning

A LUNCH LINE LINE OF THE LOCAL COLORS	Acade ale session: Even 2024-23	Deline . A.A.
THE PERSON AND PROPERTY OF THE PERSON AND PARTY OF THE	Course Code MPI 205P	Faculty: Dr. Roma Ghai
Pharmacological Fractical II	Course cours, that the contract	The state of the s

Tagging COs	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge Category (KC)
After complet	After completion of the course, the student will be able to	Process Level (BL)	
100	Evaluate the potency of test compounds using various bioassay procedures.	Evaluate	Conceptual & Procedural
C02	Demonstrate the technique of recording Blood Pressure, Heart rate and	Apply	Conceptual & Procedural
C03	Demonstrate toxicity studies as a part of preclinical evaluation in drug	Apply	Conceptual & Procedural
C04	discovery and development. Design protocols for clinical trial and Adverse Drug Reaction (ADR) monitoring.	Create	Conceptual & Procedural

fanning of Course outcomes with	e outcomes with	Program outc	Program outcomes CO-POs Matrix	Iatrix		
and to Sandday			macological Prac	Pharmacological Practical II (MPL205P)	(P)	
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6
C0-1	6	2	3	2	1	-
CO-2	co	2	3	2	1	1
CO 2	C	3	3	2	3	1
20-7	1 ("	2	3	2	3	1
PO Target	2.75	2.25	3	2	2	1

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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Delhi-NCR, Ghazia NIRF-2023 Engineering Rank Band (151-200) Pharmacy kank - 88 Innovation Rank Band (51-100)









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INSTITUTIONS	Meeting Life with Learning MET SCHOOL OF PHARMACY
GROUP OF I	Connecting L KIET SC

		TO THE TAX TAX TAX TO THE TAX	70	
Program Na	Program Name: M. Pharm Pharmacology	Academic Session: Even 2024-25	Semester: II	
Course name: Seminar	e: Seminar	Course Code: MPL206S	Faculty: Dr.	Faculty: Dr. Shardendu K Mish"a
Tagging CO	Tagging COs with BLs & KCs			
CO No.	Statement of Course Outcome	ourse Outcome	Bloom's Coonitive	
After complet	After completion of the course, the student will be able to	le to	Process Level (BL)	Knowledge Category (K
100	Evaluate the ability to perform systematic literature searches using scientific databases and critically evaluate recent advancements in pharmacology.	to perform systematic literature searches using and critically evaluate recent advancements in	Evaluate	Conceptual & Procedural
CO2	Compose proficiency in scientific writing, data interpretation, and oral presentation to effectively communicate research findings to peers and professionals.	Compose proficiency in scientific writing, data interpretation, and oral presentation to effectively communicate research findings to peers and professionals.	Create	Conceptual & Procedural
CO3	Apply ethical considerations, research integrity, and problem-solving skills in pharmacological research and experimental design.	integrity, and problem-solving skills rimental design.	Apply	Conceptual & Procedural
C04	Analyze cutting-edge developments in pharmacology, itargets, therapeutic strategies, and clinical applications.	Analyze cutting-edge developments in pharmacology, including novel drug targets, therapeutic strategies, and clinical applications.	Analyze	Conceptual & Procedural

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Signature of Course Coordinator

Signature of HoD

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NIRF-2024 Engineering Rank Band (151-200) Pharmacy Rank - 77 Innovation Rank Band (11-50)

www.kiet.edu Delhi-NCR, Ghazlabad









NAAC with Grade "A+"

KIET SCHOOL OF PHARMACY

Program Name: M. Pharm Ph 1rmacology	Academic Session: Evel 2024-25	Semester: IV
Course name: Journal Club	Course Code: MRM401T	Faculty: Dr. Shardendu K Mish

0	200	The state of the s		The state of the s
Course nam	Course name: Journal Club	Course Code: MRM401T	Faculty: Dr. Shardendu K Mishra	ndu K Mishra
Tagging CC	Tagging COs with BLs & KCs			
CO No.		Statement of Course Outcome	Bloom's Cognitive	Knowledg
After compl	After completion of the course, the student will be able to	be able to	Process Level (BL)	Category (k
100	Apply critically appraise scientifi and challenges in Pharmacology.	Apply critically appraise scientific literature to understand advancements and challenges in Pharmacology.	Apply	Conceptua
C02	Analyze research data to assess its	Analyze research data to assess its relevance to experimental pharmacology.	Analyze	Conceptua
CO3	Enhance collaborative learning through and methodologies in pharmacology.	Enhance collaborative learning through discussions on innovative solutions and methodologies in pharmacology.	Create	Conceptua
C04	Develop skills in scientific representation of research papers.	in scientific reading, critical analysis, and effective esearch papers.	Create	Conceptua

Course Code	Jourse Code PO-1	Journal Club (MRM401T)	(MRM40 PO-3	(T) P0-4	FO-4 PO-5	PO-6
C01	1	c	3	3	m	7
C02	3	3	3	3	3	2
C03	3	3	3	3	3	2
CO4	3	3	3	3	3	2
DO Target	3.00	2 00	3.00	2.00	3.00	_

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

- The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs. \$ B
- 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.



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	JP OF INSTITUTIONS	cting Life with Learning	

Accredited by NAAC with Grade "A+"		Semester: IV	Faculty: Dr. Roma Gaai
GROUP OF INSTITUTIONS Connecting Life with Learning	KIET SCHOOL OF PHARMACY	Academic Session: Even 2024-25	Course Code: LiRN, 402P
Engineering Rank Brond (151-200) Www.kief.edu Imnovation Rank Band (11-60) Delhi-MCR Ghazlabad COntract	KII	Program Name: M. Pharm Pharmacology	Course name: Dicrussion/l resentation (Proposal Course Ccde: FiRM.402P

agging COs	agging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge
fter complet	fter completion of the course, the student will be able to:	Process Level (BL)	Category (KC
100	Identify significant pharmacological research problems, formulate clear and achievable objectives and propose innovative solutions to address gaps in pharmacology field.	Analyze	Conceptual & Procedural
C02	Draw robust experimental methodologies including preclinical studies with the help of in-depth literature review.	Apply	Conceptual & Procedural
CO3	Apply advanced estimation techniques, and statistical tools, to ensure the feasibility and scientific validity of the proposed research work.	Apply	Conceptual & Procedural
C04	Defend the research proposal coherently with scientific evidence, and discussions.	Evaluate	Conceptual & Procedural

apping of Course outcomes with Program outcomes CO-POS Matrix	outcomes w	III Frograi	n outcome	CO-LOS	Viairix	
Discussion/	ion/Presenta	tion (Proposal Pres	sal Presen	tation) (MF	ion) (MRM402P)	
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-Od
CO-1	3	1	3	3	3	1
CO-2	3:	2	3	3		1
CO-3	3	3	3	3	3	2
CO-4	1	3	•	3	3	2
PO Target	3	2.66	8	3	3	7

Signature of Course Coordinator

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



NIRF-2024 Engineering Rank Band (151-200) Pharmacy Rank - 77 Innovation Rank Band (11-50)

Delhi-NCR, Ghaziabad









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Faculty: Dr. Roma Ghai Seriester: IV

KIET SCHOOL OF PI

A cademic Session: Even 2024-25

Course name: Research work and Colloquium

Tagging COs with BLs & KCs

CO No.

Program Name: М. Pharm Pharmacology

Course Code: MRM403P

Statement of Course Outcome

Bloom's

Knowledge Category

Conceptual & Procedural

Apply

Conceptual & Procedural

Evaluate

Conceptual & Procedural

(BI)

Process Level

Cognitive

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

execute pharmacological experiments independently, utilizing advanced in-vitro and in-vivo models, advanced analytical

design and

Acquire the ability to

C01

tools and ethical practices to investigate drug efficacy, safety and mechanism of

Evaluate research methodology integrating experimental design, data analysis

C02

CO3

CO4

Document the research findings in the form of reports or manuscripts, and using statistical tools and computational tools. submission of research reports.

integrity, and avoiding plagiarism

Mapping of Course outcomes with Program outcomes CO-POs Matrix

Research work and Colloquium (MRM403P)

Summarize a research framework adherence to ethical principles, maintains data

Evaluate Analyze

Conceptual & Procedural

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PO-5

PO-4

PO-3

PO-2

PO-1

Course Code

CO-1

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CO-2 CO-3 CO-4

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PO Target

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

The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.

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

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Signature of Addl. HoD

Signature of Course Coordinator

Signature of HoD



Engineering Rank Band (151-200) Pharmacy Rank - 88 Innovation Rank Band (51-100) NIRF-2023







Faculty: Dr. Abhay Bhardwaj

Course Code: MQA201T

Course name: Hazard and Safety Program Name: M. Pharm POA

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KIET SCHOOL OF PHARMACY	Academic Session: Even 2024-25 Semester: II	
Connecting Life with Learning KIET SCHOOL OF PH.	Academic Se	

	Bloom's Cognitive	Process Level (BL) Knowledge Category (KC)	Apply Conceptual & Procedural	Apply Conceptual & Procedural	Apply Conceptual & Procedural	Analyze Conceptual & Procedural	Understand Conceptual & Procedural
Tagging COs with BLs & KCs	Statement of Course Outcome	After completion of the course, the student will be able to	Illustrate the multidisciplinary nature of environmental studies and ecosystem.	Explore the air-based hazards.	Demonstrate the chemical-based hazards.	Illustrate the fire and explosion.	Review the hazard and risk Management.
Tagging CC	CO No.	After comple	100	C02	C03	C04	C05

Ha	Hazard and Safety Ma	Safety Mai	nagement	(MOA201T)	t (MQA201T)	
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-0d
CO-1	2	2	2	3	2	2
CO-2	2	2	2	3	2	2
CO-3	2	7	2	c	2	2
CO-4	2	2	2	3	2	2
CO-5	2	2	2	3	2	2
PO Target	7	7	7	6	2	2

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Engineering Rank Band (151-200) Pharmacy Rank - 88 Innovation Rank Band (51-100) NIRF-2023

Course name: Pharmaceutical Validation

M. Pharm PQA

Program Name:











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Academic Session: Even 2024-25 Course Code: MOA702T

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Faculty: Ms. Surbhi Kamboj

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Statement of Course Outcome Bloom's Cognitive Process ent will be able to Level (BL)	Process	
Level (BL)		Knowledge Ca
		Milowiedge
Apply the concept of pharmaceutical validation, calibration, qualification and Apply its related aspects including VMP.		Conceptual & Pr
Analyze the qualification of various manufacturing equipments.		Conceptual & Pr
Analyze the qualification of various laboratory equipments.		Conceptual & Pr
the concept, process & documentation of process validation and Evaluate method validation. & computerized system validation.		Conceptual & Pr
Evaluate the cleaning method development, & validation of analytical method used in cleaning.		Conceptual & Pr
Portray the concepts of Intellectual Property Right.		Procedural & Me
he qualification of various manufacturing equipments. he qualification of various laboratory equipments. the concept, process & documentation of process validation and method validation, & computerized system validation. the cleaning method development, & validation of analytical method eaning. he concepts of Intellectual Property Right.	Analyze Analyze Evaluate Evaluate Create	Analyze Analyze Evaluate Evaluate Create

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PO-5	Mapping of Course outcomes with Program outcomes CO-POs Matrix	itcomes with	Program ou	teomes CO-	POs Matrix		
PO-1 PO-2 PO-3 PO-4 PO-5 - 3 3 2 3 - 3 3 2 - - 3 3 2 - 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		Pharma	ceutical Vali	idation (MQ	A202T)		
- 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Course Code	P0-1	PO-2	PO-3	PO-4	PO-5	9-0d
CO-2 - 3 3 2 - 2 CO-3 - 3 3 3 3 3 2 - 2 CO-4 3 3 3 3 3 3 2 CO-5 3 3 3 3 3 3 2 PO Target 3 3 3 3 2.5 3 2.16	C0-1	1	3	3	2	0	2
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	CO-2		3	3	2	,	2
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	CO-3	,	3	3	2	•	.7
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	CO-4	e	3	3	3	3	67
3 3 3 3 3 3 3 3 3 2.5 3	CO-5	3	3	3	3	3	64
3 3 3 2.5 3	9-00	3	3	3	3	50	
	PO Target	3	3	3	2.5	3	2.

Signature of Course Coordinator

Signature of Addl. HoD

Signature of HoD

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

The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.

The statement of a CO must be formed considering a proper structure having mandatory and optional parts. The mandatory parts are Action & Knowledge and optional parts are Condition and 0.0

RANKING FRAMEWORK NIRF-2023 Engineering Rank Band (151-200) Pharmacy Rank - 88 Innovation Pank Band (51-100)

Course name: Audits and Regulatory Compliance

Tagging COs with BLs & KCs

CO No

Program Name: M. Pharm POA













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Corse Code: MQA203T

Knowledge Category (KC)

Bloom's Cognitive Process Level (RL) Understand

Elaborate concepts & objectives, management of audit, responsibilities, planning

Statement of Course Outcome

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

C01

process, information gathering, administration, classifications of deficiencies.

Analyze role of Quality Systems and audits in Pharmaceutical Manufacturing Environment cGMP Regulations, Quality assurance functions, Quality systems approach, Management responsibilities, Resource, Manufacturing operations, Evaluation activities, Transitioning to quality system approach, Audit checklist for

Conceptual & Procedural

Conceptual & Procedural

Analyze

Conceptual & Procedural

Analyze

Document bulk pharmaceutical chemicals and packaging material vendor audit,

drug industries.

C02

warehouse and weighing, dry production: Granulation, tableting, coating, capsules,

sterile production and packaging.

CO3

Audit the manufacturing process, product and process information, general areas of

interest in the building raw materials, water, packaging materials.

Validate Quality Assurance and Engineering Department & Quality assurance

maintenance, critical systems.

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C04

Conceptual & Procedural

Analyze

Evaluate

Conceptual & Procedural

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PO-5

PO-4

PO-3 3

PO-2 2 2 O N 2

PO-1 3 3 3 3 3

Course Code

CO-1 CO-2

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PO Target CO-5

CO-3 CO-4

Audits and Regulatory Compliance (MQA203T)

Mapping of Course outcomes with Program outcomes CO-POs Matrix

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NIRF-2023 Engineering Rark Band (151-200) Pharmacy Rank - 88 Innovation Rank Band (51-100)









KIET School of Pharmacy (KSOP)

Faculty: Dr. Snigdha Bhardwaj Semester: II Academic Session: 2024-25 Course Code: MOA204T Course name: Pharmaceutical Manufacturing Technology Program Name: M.Pharm PQA

Tagging CO	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognifive	Knowledge
After complet	After completion of the course, the student will be able to	Process Level (BL)	Category (KC)
100	Elaborate common practice in the pharmaceutical industry developments, plant layout and production planning.	Understand	Factual & Conceptual
C02	Acquire the knowledge of practices of aseptic process technology, sterile manufacturing technology	Apply	Conceptual & Procedural
CO3	Acquire the knowledge of practices of non-sterile manufacturing technology and coating technology	Apply	Conceptual & Procedural
C04	Elaborate the practices of packaging technology	Understand	Conceptual & Procedural
500	Analyze quality by design (QbD) and process analytical technology (PAT) in pharmaceutical manufacturing	Analyze	Conceptual & Procedural

Mappin	ping of Course	e outcomes v	vith Progran	outcomes (comes CO-POs Matrix	trix
	Pharmace	utical Manuf.	acturing Tech	nology (MOA	(Z04T)	
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-Od
CO-1	2	2	3	2	3	2
CO-2	2	2	3	2	3	2
CO-3	2	2	3	2	3	2
CO-4	-	1	3	ı	2	-
CO-5	3	2	3	3	3	-
PO Target	2	7	3	1.8	2.8	1.6

Signature of Course Coordinator

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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/ seminar/ seminar 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.

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Engineering Rank Band (151-200) Pharmacy Rank - 88 Innovation Rank Band (51-100) NIRF-2023











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Semester: II

KIET SCHO

Course name: Quality Assurance Practical-I

Tagging COs with BLs & KCs

Program Name: M. Pharm PQA

Academic Session: Even 2024-25 Course Code: MQA205P

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TIONS 55	With Learning NAACW
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Conceptual & Procedural Conceptual & Procedural Conceptual & Procedural Conceptual & Procedural Knowledge Category Faculty: Dr. Shwetakshi Sharma 9-0d Bloom's Cognitive Process Level (BL) Evaluate Apply Create

Explore and analyze the pre-formulation studies of various dosage form

Statement of Course Outcome

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

C01

C02

CO3

C04

Generalize the case studies on TQM, OOS, OOT, CAPA

Assess the quality control test on analytical instrument

Mapping of Course outcomes with Program outcomes CO-POs Matrix Apply Handle various types of analytical instruments used in quality assurance

PO-5 Quality Assurance Practical-I (MQA205P) PO-4 2 PO-3 PO-2 2.5 2 3 PO-1 2.66 1 2 Course Code PO Target CO-2 CO-3 CO-4 CO-1



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

The courses having credits 3 to 6 should have 5 number of Cos. The courses having credits less than 3 should have 4 number of COs.

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



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KIET SCHOOL OF PHARMACY

Program Name: M. Pharm PQA	Academic Session: Even 2024-25	Semester: I7	
ourse name: Seminar/ Assignment	Course Code: MQA206S	Faculty: Ms. Surbhi Kamboi	

Lagging CO	Lagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	
After comple	After completion of the course, the student will be able to	Process Level (BL)	Knowledge Category (KC)
C01	Elaborate the effective technical and regulatory aspects of quality assurance through presentations and discussions.	Understand	Conceptual & Procedural
C02	Apply innovative solutions and methodologies in Quality Assurance through collaborative discussions for enhanced learning.	Apply	Conceptual & Procedural
CO3	Develop structured, well-documented reports demonstrating research and analytical skills.	Create	Conceptual & Procedural
C04	Develop problem-solving skills by applying theoretical knowledge to practical QA scenarios and case studies.	Create	Conceptual & Procedural

	Seminar/	ar/ Assignn	nent (MQA206P)	206P)		
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-Od
CO-1	1	3	1	2	-	n
CO-2	2	3	2	2	-	3
CO-3	1	3	2	2	-	m
CO-4		3	2	2	_	3
PO Target	2	3	1.75	7		3

Signature of Course Coordinator

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KIET SCHOOL OF PHARMACY

rogram Name: M. Pharm PQA	Academic Session: Even 2024-25	Semester: IV
ourse name: Journal Club	Course Code: MRM401T	Faculty: Ms. Surbhi Kamboj

Tagging CO	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge
After comple	After completion of the course, the student will be able to	Process Level (BL)	Category (KC)
C01	Apply critically appraise scientific literature to understand advancements and challenges in pharmaceutical Quality Assurance.	Apply	Conceptual, Procedural
C02	Analyze research data to assess its relevance to Quality Assurance practices and regulatory standards.	- Analyze	Conceptual, Procedural
CO3	Enhance collaborative learning through discussions on innovative solutions and methodologies in Quality Assurance.	Create	Conceptual, Procedural
CO4	Develop skills in scientific reading, critical analysis, and effective presentation of research papers.	Create	Conceptual, Procedural

apping or course of	oncome and a company of the company					
	Jou	Journal Club (MRM	401T)		
Course Code	PO-1	PO-2	PO-3	PO-4	PO-5	9-Od
CO-1	1	3	3	3	3	2
CO-2	3	3	3	3	3	2
CO-3	3	3	3	3	3	2
CO-4	3	3	3	3	3	2
PO Target	3.00	3.00	3.00	3.00	3.00	2.00

Signature of Course Coordinator

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



NIRE-2024 Engineering Rank Band (151-200) Pharmacy Rank - 77 Innovation Rank Band (11-50)

Program Name: M. Pharm PQA









KIET SCHOOL OF PHA Academic Session

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on: Even 2024-25	Semester: IV
10 M 4021	Faculty: Ms. Surbhi Kambai

A LOSI COLONIA		
Course name: Discussion/Presentation (Proposal	Course Code: MRM4021	Faculty: Ms. Surbhi Kamboj
Presentation)		

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Process Level (BL) Analyze Apply define clear objectives, and propose innovative approaches to address the identified Identify and articulate relevant research problems in the field of quality assurance,

challenges in pharmaceutical quality management.

and practical implications of the proposed study

CO3

C02

CO1

Category (KC)

Conceptual

Knowledge

Bloom's Cognitive

Statement of Course Outcome

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

Tagging COs with BLs & KCs

Evaluate Explain the research proposal effectively using visual aids, logical arguments, and Acquire a comprehensive research methodology, including experimental design, analytical techniques, and regulatory frameworks, while assessing the feasibility scientific evidence, and confidently defend the proposed work during discussions.

Create Develop innovative solutions through collaborative discussions on pharmaceutical demonstrating in-depth subject knowledge and critical thinking.

Conceptual &

Conceptual

Conceptual

Procedural

quality assurance challenges.

C04

PO-5 Discussion/Presentation (Proposal Presentation) (MRM402P) 'n Mapping of Course outcomes with Program outcomes CO-POs Matrix 3 PO-4 PO-3 ce 3 PO-2 0 3 PO-1 3 Course Code CO-2 CO-3 CO-1 CO-4

9-Od

Signature of Course Coordinator

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PO Target

Signature of Addl. HoD

Signature of HoD

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

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N.RF-2024 Engineering Rank Band (151-200) Pharmacy Rank - 77 Innovation Rank Band (11-50)

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KIET SCHOOL OF PHARMACY

rogram Name: M. Pharm PQA	Academic Session: Even 20'4-25	Semester: IV
ourse name: Research work and Colloquium	Course Code: MRM403P	Faculty: Ms. Surbhi Kamboj

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Tagging COs	Tagging COs with BLs & KCs		
CO No.	Statement of Course Outcome	Bloom's Cognitive	Knowledge
After complet	After completion of the course, the student will be able to	Process Level (BL)	Category (KC)
100	Acquire the ability to design and execute quality assurance experiments independently, utilizing advanced analytical tools, and develop innovative solutions for quality-related challenges in pharmaceutical formulations and processes.	Apply	Conceptual & Procedural
C02	Evaluate experimental data using statistical tools and advanced validation techniques to ensure accuracy and compliance. Develop a research methodology integrating design, analytical techniques, and regulatory frameworks while assessing feasibility and practical implications.	Evaluate	Conceptual & Procedural
CO3	Document the research findings in the form of reports or manuscripts, and submission of research reports.	Analyze	Conceptual
C04	Develop a research framework that ensures adherence to ethical principles, maintains data integrity, and complies with regulatory guidelines.	Create	Conceptual & Procedural

Course Code	Research work and Colloquium	ork and Co		MRM403P)	PO-5	9-Od
CO-1	3	1	3	· · ·	3	
CO-2	3	2	3	3	3	-
CO-3	3	3	3	3	2	2
CO-4	3	3	3	3	3	2
PO Target	3	2.66	33	3	6	2

Signature of Course Coordinator

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