

# Dr. Bhimrao Ambedkar University, Agra

A State University of Uttar Pradesh (Paliwal Park, Agra -282004) www.dbrau.ac.in

# A Documentary Support for Matric No. – 1.1.2 employability/ entrepreneurship/ skill development

under the

Criteria - I

(Curriculum Design and Development)

Key Indicator - 1.1

in Matric No. – 1.1.2

DIPLOMA IN PHARM.

2021



Registrat Registration, Agra

# Programme outcome of Pharm.D After completion graduate are ready to

PO3-Problem Analysis  PO4-Modern tool Usage  PO5-Communication skills  PO6-Professional Identity  PO6-Professional Identity  PO7-Pharmaceutical Ethics  PO8-Planning Abilities  PO8-Planning Abilities  PO9-Leadership skills  PO9-Leadership skills  PO9-Leadership skills  PO9-Leadership skills  PO9-Leadership skills  PO9-Leadership skills  PO8-Piccinical Pharmacy Practice  PO8-Piccinical Pharmacy Practice  PO9-Leadership skills  Pos-Recting bera to the profession of the professi	erpretation gh quality monitoring evaluation. therapy in
skills in medical emergency and provide high therapy in all areas of clinical care and maniculating structure based therapeutic exappreciate the concept of Rational drug the diverse therapeutic intervention. Provide high evidence based patient-centric care with clinical providence based patient-centric care with clinical to provide the principles of enquiry and improves critical thinking in order to formulate and solve the issues related to Patient efficient utilization of resources, softwatovercoming the limitations of conventional practical professional identity.  PO5-Communication skills  Communicate effectively regarding issues in patient specific with the pharmacy commissociety.  PO6-Professional Identity  Act in consultative position with other healthcator professional and social context. Demonst degree of professional, ethical and legal conforming with all national, state and local regulations related to pharmacy practice.  PO8-Planning Abilities  Develop and apply skills for time manage utilization of resources and implement them to the task to meet deadlines.  PO9-Leadership skills  Inculcate leadership abilities for competent te approaches to improve and facilitate the first procession of the providence of the professional and social context.	gh quality monitoring evaluation. therapy in
PO4-Modern tool Usage  Learn, select and apply appropriate technic efficient utilization of resources, softwa overcoming the limitations of conventional practical effectively regarding issues in patient specific with the pharmacy commissociety.  PO6-Professional Identity  PO7-Pharmaceutical Ethics  PO8-Planning Abilities  PO8-Planning Abilities  enquiry and improves critical thinking in order to formulate and apply appropriate technic efficient utilization of resources, softwa overcoming the limitations of conventional practical professional profession with the pharmacy commissociety.  PO6-Professional Identity  Act in consultative position with other healthcat professional and social context. Demonst degree of professional, ethical and legal conforming with all national, state and local regulations related to pharmacy practice.  PO8-Planning Abilities  Develop and apply skills for time manage utilization of resources and implement them to the task to meet deadlines.  PO9-Leadership skills  Inculcate leadership abilities for competent te approaches to improve and facilitate the first technical and social context.	ian.
PO5-Communication skills  Communicate effectively regarding issues in patient specific with the pharmacy communicate.  PO6-Professional Identity  Act in consultative position with other healthcate.  PO7-Pharmaceutical Ethics  Honour personal values and apply ethical professional and social context. Demonst degree of professional, ethical and legal conforming with all national, state and local regulations related to pharmacy practice.  PO8-Planning Abilities  Develop and apply skills for time manage utilization of resources and implement them to the task to meet deadlines.  PO9-Leadership skills  Inculcate leadership abilities for competent te approaches to improve and facilitate the hone.	to identify,
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the task to meet deadlines.  PO9-Leadership skills  Inculcate leadership abilities for competent te approaches to improve and facilitate the h	strate high manners,
approaches to improve and facilitate the h	ement and to complete
	health and
PO10-Environment and sustainability:  Recognize the need to engage independent a learning to update the practice to keep in pactive ever-changing technological aspects. Self-a along with feedback analysis to identify the for improvement of diverse skills as a process.	ace with the assessment grey areas
PO11-Life-long learning  Recognize the need to engage independent a learning—to update the practice to keep in pare ever-changing technological aspects. Self-a along with feedback analysis to identify the great improvement of diverse skills as a continuous process.	ace with the -assessment rey areas for

NAME OF SUBJECT:	Human Anatomy & Physiology		
SUBJECT CODE:	22 PD 11T		
BRANCH	Pharmacy		
SEMESTER/YEAR	1st		
SESSION	2022-2023		
FACULTY NAME	Dr. Gaurav Rajauria		

	The atudent will be able to	Level
COSTA	ATEMENT: The student will be able to  They would have learnt the gross anatomy, histology and physiology of	L1, L2
CO2	various organs of the human body.  They would identify the various tissues and organs associated with the	L2, L3
CO3	different organ systems with help of charts and specimens.  They would have studied the coordination in functioning of different organs	L2, L3
CO4	of each system.  They would have understood the several physiological homeostatic	L2, L3.
CO5	mechanisms and their imbalances in human body.  They would have learnt the interlinked mechanisms in the maintenance in normal and physical exercise conditions.	L2, L3, L4

Course	Sessional 1	Sessional 2	Sessional 3	End Term Exam
Outcomes	1			/
CO PD 11.1	1		/	1
CO PD 11.2	- /	1		1
CO PD 11.3		1	. /	/
CO PD 11.4		1		1
CO PD 11.5				

		000	200	DO4	DO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
COs	PO1	PO2	PO3	· PO4	FO3	100	107	100	100				2	
1		.*										-	-	3
2			-						-				3	2
3						-		-	-		-		2	3
4							-	-	-	-		-	3	4
5	8	1						-	-		-	-	3	<u> </u>
Avg.														1



NAME OF SUBJECT:	Pharmaceutics
SUBJECT CODE:	22 PD 12T
BRANCH	Pharmacy
SEMESTER/YEAR	1 <sup>st</sup>
SESSION .	2022-2023
FACULTY NAME	Dr. Gaurav Rajauria

COST	ATEMENT: The student will be able to	Level
CO1	Upon completion of this program the student will know different dosages	L1, L2
000	aspects	L2, L3
CO2	Different dosage forms	L2, L3
CO3	Different pharmaceutical calculation	L2, L3
CO4	The importance of good formulation for effectiveness.	
CO5	Preparation, handling and storage of dosage forms	L2, L3,

Course Outcomes	Sessional 1	Sessional 2	Sessional 3	End Term Exam
CO PD 12.1	1			1
CO PD 12.1	1		✓ ··	/
	1	1	/	1
CO PD 12.3		1	/	1
ÇO PD 12.4	1.01	1		/
CO PD 12.5				

00	DO1	DO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P.O10	PO11	PO12	PSO1	PSO2
COS	POI	POZ	103	104	103	100	10.	1				1	2	
1 .		-		-		-		2.4			-		0.2	3
2	-		-	-		-					1.5		3	2
3			-	-									2	3
4			-										3	4
5		<u>.</u>		-										
Avg.	1													



NAME OF SUBJECT:	Medicinal Biochemistry
SUBJECT CODE:	22 PD 13T
BRANCH	Pharmacy
SEMESTER/YEAR	1 st
SESSION ·	2022-2023
FACULTY NAME	Dr. Gaurav Rajauria

	The abla to	Level
CO ST.	ATEMENT: The student will be able to	L1, L2
CO1	To understand the importance of metabolism of substrates.	L2, L3
CO2	Will acquire chemistry and biological importance of biological macromolecules.	L2, L3
CO3	To acquire knowledge in qualitative and quantitative estimation of the biological macromolecules.	L2, L3
CO4	To know the interpretation of data emanating from a Clinical Test Lab.	L2, L3,
CO5	To know how physiological conditions influence the structures and reactivity's of biomolecules.	L4

Course	Sessional 1	Sessional 2	Sessional 3	End Term Exam
Outcomes	1			1
CO PD 13.1		1 1		1
CO PD 13.2		121.1	· · ·	/
CO PD 13.3	1	/		/
CO PD 13.4		. /	· V.	/
CO PD 13.5		✓ .		V

			D00	DO4	DO5	DO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
COs	PO1	PO2	PO3	PO4	POS	FOO	107	100	103				2	
1							-						-	3
2					-	-		-	-			11,	3	2
3				-		-		-	-				2	3
4							-	-	-				3	4
5					-		-	-						
Avg.													-	



NAME OF SUBJECT:	Pharmaceutical Organic Chemistry
SUBJECT CODE :	22 PD 14T
BRANCH	Pharmacy
SEMESTER/YEAR	1 st
SESSION	2022-2023
FACULTY NAME	Dr. Gaurav Rajauria

COST	ATEMENT: The student will be able to .	Level
COI	To be able to give systematic names to simple organic compounds and poly functional group.	L1, L2
CO2	To achieve an understanding of the behavior of organic compounds and to establish a foundation for studies into natural and synthetic products of pharmaceutical interest.	L2, L3
CO3	To acquire the knowledge and understanding of the basic experimental principles of pharmaceutical organic chemistry.	L2, L3
CO4	To draw the structures and synthesize simple pharmaceutically active organic compounds.	L2, L3
CO5	To describe detailed mechanisms for common reactions.	L2, L3, L4

Course Outcomes	Sessional 1	Sessional 2	Sessional 3	End Term Exam
CO PD 14.1	1			/
CO PD 14.1	1		/	. /
CO PD 14.2	/	/	/	1
CO PD 14.3	<u> </u>	1	/	1
CO PD 14.4		1	A 20 1 1	1

COc	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
COS	101	102	105	10,	1.00								2	
1									-				4	2
2														3
3		-											3	2
1	-						TE T					5	2	3
-					200						7.	- 1	3.	4
Ava		-						-		1				

NAME OF SUBJECT:	Pharmaceutical Inorganic Chemistry
SUBJECT CODE :	22 PD 15T
BRANCH	Pharmacy
SEMESTER/YEAR	1 st
SESSION .	2022-2023
FACULTY NAME	Dr. Gaurav Rajauria

COST	ATEMENT: The student will be able to	Level
	Well acquainted with the principles of limit tests.	L1, L2
CO1	Well acquainted with the principles of finite tests.	L2, L3
CO2	Understand the principles and procedures of analysis of drugs and also regarding the application of inorganic pharmaceutical.	
CO3	Knowledge about the sources of impurities and methods to determine the impurities in inorganic drugs and pharmaceuticals	L2, L3
CO4	Appreciate the importance of inorganic pharmaceuticals in preventing and	L2, L3
CO5	To have been introduced to a variety of inorganic drug classes.	L2, L3, L4

Course Outcomes	Sessional 1	Sessional 2	Sessional 3	End Term Exam
	1			
CO PD 15.1	-		/	- 1
CO PD 15.2	<b>V</b>		V.	,
CO PD 15.3	/		7	,
CO PD 15.4	7 7 2	1	/	1
CO PD 15.5		1.	4	1

CO	DO1	DO2	DO3	PO4	CPO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
COS	POI	POZ	FO3	104	105	1.00	1.07		-	111111111111111111111111111111111111111			2	
1					1000	. to		-		-		-	-	3
2				,				1 7					2	2
3								-			-	-	2	3
4								-	-		-	-	2	1
5										-	-	-	3	
Aver											2			



NAME OF SUBJECT :	Remedial Mathematics/Biology
SUBJECT CODE:	22 PD 16T
BRANCH	Pharmacy
SEMESTER/YEAR	1 st
SESSION	2022-2023
FACULTY NAME	Dr. Gaurav Rajauria

COST	ATEMENT: The student will be able to	Level
CO1	Apply mathematical concepts and principles to perform computations for Pharmaceutical Sciences.	L1, L2
CO2	Create, use and analyze mathematical representations and mathematical relationships	L2, L3
CO3	Cell biology (Basic Nature of Plant cell and Animal cell)	L2, L3
CO4	Classification System of both Plants & Animals	L2, L3
CO5	Various tissue system and organ system in plant and animals	L2, L3, L4

Course Outcomes	Sessional 1	Sessional 2	Sessional 3	End Term Exam
CO PD 16.1	1			/
CO PD 16.2	/		√ ·	/
CO PD 16.3	/	/ .	✓	/
CO PD 16.4		. /:	✓ .	1
CO PD 16.5			a l	/

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1													2	
2						1								3
3	,										0.5		3	2
-4										11			2	3
5													3	4
Avo										1				



NAME OF SUBJECT :	Pathophysiology
NAME OF SUBJECT: SUBJECT CODE:	22 PD 21T
BRANCH	Pharmacy
SEMESTER/YEAR	2 <sup>nd</sup>
SESSION	2022-2023
FACULTY NAME	Dr. Gaurav Rajauria

CO CT	ATEMENT: The student will be able to	Level
	Students will define the basic pathogenesis of human disease.	L1, L2
CO1	Students will define the basic pathogenesis of more accommon stiologies and	L2, L3
CO2	Students will define and explore the most common etiologies and predisposing factors associated with human disease	
CO3	Students understands the basis for some laboratory tests and other	L2, L3
	diagnostic procedures	L2, L3
CO4	Students will make correlations between pathophysiology and clinical skills they are learning in their allied health science programs.	
CO5	Students will understand how the various organ systems are interrelated, and use this understanding to promote a holistic approach towards the	L2, L3, L4
	evaluation and treatment of patients	

Course Outcomes	Sessional 1	· Sessional 2	Sessional 3	End Term Exam
CO PD 21.1	/			/
CO PD 21.2	1	1 -	✓	/
CO PD 21.3	1	/	<b>√</b>	/
CO PD 21.4		/	<i>y</i>	. /
CO PD 21.5		· /	.8	1

	25.7				205	noc	DO7	DOO	I DOO	PO10	PO11	PO12	PSO1	PSO2
COs	PO1	PO2	PO3	PO4	PO5	PO6	POT	POS	109	1010	1011	1012	2	1.00
1				14									2	3
2	-						.0		-			-	2	2
- 3									-				2	3
4												-	2	3
5												-	3	4
Δνσ	1						1			7				



NAME OF SUBJECT:	Pharmaceutical Microbiology
SUBJECT CODE :	22 PD 22T
BRANCH	Pharmacy
SEMESTER/YEAR	· 2 <sup>nd</sup>
SESSION	2022-2023
FACULTY NAME	Dr. Gaurav Rajauria

COST	ATEMENT: The student will be able to	Level
CO1	Students can able to demonstrate an understanding at an advanced level of microbial virulence mechanisms and host response to infection; application of molecular techniques to medical microbiology; microbial susceptibility and resistance to antimicrobial agents; replication of viruses, viral immunology and pathogenesis, detection of viruses	L1, L2
CO2	Students can able to understanding of various infections (microbial causes, pathogenesis, transmission of infection, diagnosis, prevention and treatment) by being able to identify a unknown organisms in clinical samples and describe the pathogenesis of important pathogens	L2, L3
CO3	Students Demonstrate a basic understanding of the pathogenesis of some important fungal infections of humans, and be able to identify and isolate them from clinical samples	L2, L3
CO4	Students Work cooperatively as part of a small group and Critically assess	L2, L3
CO5	Students can Analyze and report on complex research questions, and solve problems, plan a work program or diagnostic strategy and learn independently	L2, L3 L4

Course Outcomes	Sessional 1	Sessional 2	Sessional 3	End Term Exam
CO PD 22.1	1			/
CO PD 22.1	1		/	/
CO PD 22.3	/	1	· /	1
CO PD 22.4		1	/	/
CO PD 22.5	-:-	✓: ·		7

1 DO	DO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
I POZ	103	104	105	100	101	1.0.0	-				2	
							-				-	2
										-	_	3
					3						3	2
1	-	-								7.0	2	3
)	1 PO2	1 PO2 PO3	1 PO2 PO3 PO4	1 PO2 PO3 PO4 PO5	1 PO2 PO3 PO4 PO5 PO6	1 PO2 PO3 PO4 PO5 PO6 PO7	1 PO2 PO3 PO4 PO5 PO6 PO7 PO8	1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9	1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10	1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11	1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12	PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PSO1 2 3 3 2



		-					3	4
. 5		<u></u>	1	 * 2			-	
Avg.		-						

NAME OF SUBJECT:	Pharmacognosy & Phytopharmaceuticals
SUBJECT CODE:	22 PD 23T
BRANCH	Pharmacy
SEMESTER/YEAR	2 <sup>nd</sup>
SESSION	2022-2023
FACULTY NAME	Dr. Gaurav Rajauria

COST	ATEMENT: The student will be able to	Level
		L1, L2
CO1	Herbs and their Science	L2, L3
CO2	Classification of Medicinal Plants, Phytochemistry, Carbohydrates, Lipids	L2, L3
CO3	Terpenes, Polyphenols, Alkaloids, Pharmacology, Toxicity, Formulations and Preparations of Herbal Medicines	
CO4	How herbs influence our physiology and can be helpful against several	L2, L3
CO5	Relationsbetween Phyto-therapy and the Elderly, Phytotherapy and Children, Understanding Herbal Action, and Understanding the Materia Medica.	L2, L3, L4

Course Outcomes	Sessional 1	Sessional 2	Sessional 3	End Term Exam
CO PD 23.1	1			/
	1		/	1
CO PD 23.2	- /	1	/	1
CO PD 23.3			1	1
CO PD 23.4	•/ =		-4	/
CO PD 23.5		. /		•

	DO.	, . L DO2	DO2	DO4	DO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
COs	POI	PO2	PO3	PO4	103	100	107	100	107				2	
1					7				-					3
2						-		-	-				3	2
3				-									2	3
4			-										3	4
5				-		-			-	-				
Avg.		1											-	



NAME OF SUBJECT:	Pharmacology I
SUBJECT CODE:	22 PD 24T
BRANCH	Pharmacy
SEMESTER/YEAR	2 <sup>nd</sup>
SESSION	2022-2023
FACULTY NAME	Dr. Gaurav Rajauria

COST	ATEMENT: The student will be able to	Level
COI	The student would have learnt about the different drugs used with an emphasis on its classification, Pharmacodynamic and pharmacokinetic aspects adverse effects, Therapeutic uses.	L1, L2
CO2	They would have studied, dose, route of administration, precautions, and contraindications.	L2, L3
CO3	They would have understood the pharmacological aspects of drugs used to treat ailment of different organ systems of the body.	L2, L3
CO4	They would appreciate the importance of drug discovery by preclinical and clinical trials.	L2, L3
CO5	They would appreciate the importance of pharmacology	L2, L3, L4

Sessional 1	Sessional 2	Sessional 3	End Term Exam
/			1
1		✓	/
/	- /	· /	. 1
	1	1	/
	/		- /
	Sessional 1	Sessional 1 Sessional 2	Sessional 1 Sessional 2 Sessional 3

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
COS	TOI	102	105	101		-	-						2	
1	- 1						· .		-			-	-	3
2											-	-	2	2
3													3	2
4													2	3
4		-		-									3	4
5	100					-			+			5		
Avo								, i.					1	



NAME OF SUBJECT:	Community Pharmacy
SUBJECT CODE:	22 PD 25T
BRANCH	Pharmacy
SEMESTER/YEAR	2 <sup>nd</sup>
SESSION	2022-2023
FACULTY NAME	Dr. Gaurav Rajauria

COST	ATEMENT: The student will be able to	Level
COI	Students will provide patient cantered care to diverse patients using the best available evidence and in consideration of patients' circumstances to devise, modify, implement, document and monitor pharmacotherapy care plans, either independently or as part of healthcare team	L1, L2
CO2	Students will demonstrate knowledge of the business and professional practice management skills in community pharmacies.	L2, L3
CO3.	Students will educate patients through counselling &provide health screening services to public	L2, L3
CO4	Students will identify symptoms of minor ailments and provide appropriate medication	L2, L3
CO5	Students will participate in prevention programs of communicable diseases	L2, L3, L4

Course . Outcomes	Sessional 1	Şessional 2	Sessional 3	End Term Exam
CO PD 25.1	/			/
CO PD 25.2	1	= 10	1	/
CO PD 25.3	1	1	. /	/
CO PD 25.4		1	/	1
CO PD 25.5		- / ·		1

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1						9 7							2	ed in
2														3
3			-										3	2



	*	1	 1	1			7.5			2	3
4					-			-	_	2	1
5	- 1				3 3 3			 -	-	3	-
Ava					100	5.1					

NAME OF SUBJECT:	Pharmacotherapeutics I						
SUBJECT CODE :	22 PD 26T						
BRANCH	Pharmacy						
SEMESTER/YEAR	2 <sup>nd</sup>						
SESSION	2022-2023						
FACULTY NAME	Dr. Gaurav Rajauria						

~ 0 CM	ATEMENT: The student will be able to	Level
COSTA	Students will be able to describe the pathophysiology and management	L1, L2
CO1.	of cardiovascular, respiratory and endocrine diseases	L2, L3
CO2	Students will be developing Patient case based Assessment Skills  Students will be developing Patient case based Assessment Skills	L2, L3
CO3	Students will be able to describe the quality use of medicines issues surrounding the therapeutic agents in the treatment of these diseases	L2, L3
CO4	Students will have developed clinical skills in the therapeutic management of these conditions	
CO5	Continue to develop communication skills.	L2, L3, L4

Course	Sessional 1	Sessional 2	Sessional 3	End Term Exam
Outcomes	-			/
CO PD 26.1	V			/
CO PD 26.2	/		· ·	· · ·
CO PD 26.3	1	· / · ·	V .	· · · /
CO PD 26.4	· · ·	/: ·	· / .	7 .
CO PD 26.5				<b>7</b>

	- 12	5.00			1	1		200	200	DO10	DO11	PO12	PSOI	PSO2
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	POTO	POIT	PO12	2	1502
1				,	-								2 .	-
1		-											17	3
- 2	1										,	-	3	2
3					-			-		-			2	3
4									-				3	4
5									-		-	-	3	-
Ανσ.		1.0												

NAME OF SUBJECT:	Pharmacotherapeutics III
SUBJECT CODE :	22 PD 41T
BRANCH	Pharmacy
SEMESTER/YEAR	PB 1st
SESSION	2022-2023
FACULTY NAME	Dr. Gaurav Rajauria

COCT	ATEMENT: The student will be able to	Level
CO1	Initiate drug therapy and the anticipated therapeutic goals by therapeutic	L1, L2
CO2	intervention  Know the effective use of non-pharmacological therapeutic interventions in the treatment of specific diseases, conditions and symptoms.	L2, L3
CO3	Demonstrate the ability to effectively communicate and work	L2, L3
· CO4	Have moral reasoning, ethical judgement and professionalism	L2, L3
CO5	Students will have developed clinical skills in the therapeutic management of these conditions	L2, L3, L4

Course Outcomes	. Sessional 1	Sessional 2	Sessional 3	End Term Exam
CO PD 41.1	/			/
CO PD 41.1	/		<b>✓</b>	/
CO PD 41.2	/	/	/	1
CO PD 41.4		/	1	. /
CO PD 41.5		- /		1

				T n o 1	nos	DO.	DO7	DO9	DO0	PO10	PO11	PO12	PSO1	PSO2
COs	PO1	PO2	PO3	PO4	PO5	PO6	POT	PUo	109	1010	1011	PO12	2	
1									-				4	3
2					-				-		-	-	3	2
3									-			-	2	3
4						-		1.	-		-		3	4
5				1						1			10	1,000

Avg	
7175.	

Hospital Pharmacy
22 PD 42T
Pharmacy
PB 1st
2022-2023
Dr. Gaurav Rajauria

COST	ATEMENT: The student will be able to	Level
COI	Know Various Drug Distribution Methods;	L1, L2
CO2	Know The Professional Practice Management Skills In Hospital Pharmacies;	L2, L3
CO3	Provide Unbiased Drug Information To The Doctors;	L2, L3
CO4	Know The Manufacturing Practices Of Various Formulations In Hospital Set Up;	L2, L3
CO5	Appreciate The Practice Based Research Methods	L2, L3, L4

Course Outcomes	Sessional 1	Sessional 2	Sessional 3	End Term Exam
CO PD 42.1	/	•		/
CO PD 42.2	. /		<b>/</b>	1
CO PD 42.3	1	1	1	/
CO PD 42.4		1	✓	/
CO PD 42.5		/		/

POL	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P.O10	PO11	PO12	PSO1	PSO2
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	PO1	PO1 PO2	PO1 PO2 PO3	PO1 PO2 PO3 PO4	PO1 PO2 PO3 PO4 PO5	PO1 PO2 PO3 PO4 PO5 PO6	PO1 PO2 PO3 PO4 PO5 PO6 PO7	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10	PO1         PO2         PO3         PO4         PO5         PO6         PO7         PO8         PO9         PO10         PO11 <td>PO1         PO2         PO3         PO4         PO5         PO6         PO7         PO8         PO9         PO10         PO11         PO12</td> <td>PO1         PO2         PO3         PO4         PO5         PO6         PO7         PO8         PO9         PO10         PO11         PO12         PS01           2         3         3         3         2         3         <t< td=""></t<></td>	PO1         PO2         PO3         PO4         PO5         PO6         PO7         PO8         PO9         PO10         PO11         PO12	PO1         PO2         PO3         PO4         PO5         PO6         PO7         PO8         PO9         PO10         PO11         PO12         PS01           2         3         3         3         2         3 <t< td=""></t<>

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Clinical Pharmacy
22 PD 43T
Pharmacy
PB 1st
2022-2023
Dr. Gaurav Rajauria

COST	ATEMENT: The student will be able to	Level
CO1	Monitor drug therapy of patient through medication chart review and	L1, L2
	Clinical review; Obtain medication history interview and counsel the patients;	L2, L3
CO2	Obtain medication history interview and counset the patterns,	L2, L3
CO3	Identify and resolve drug related problems;	L2, L3
CO4	Detect, assess and monitor adverse drug reaction;	L2, L3,
CO5	Interpret selected laboratory results (as monitoring parameters in therapeutics) of specific disease states;	L2, L3, L4

Course	Sessional 1	Sessional 2	Sessional 3	End Term Exam
Outcomes	,			_ /
CO PD 43.1	V			
CO PD 43.2	/		· ·	
CO PD 43.3	/	1	· ·	/
CO PD 43.4	- 1/4)	/	<b>/</b>	/
CO PD 43.5		1		<i>,</i>

		DO2	DO2	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
COs	PO1	PO2	PO3	PO4	FO3	100	101	100					2	
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Avg.														

NAME OF SUBJECT:	Biostatistics & Research Methodology
SUBJECT CODE :	22 PD 44T
BRANCH	Pharmacy
SEMESTER/YEAR	PB 1st
SESSION	2022-2023
FACULTY NAME	Dr. Gaurav Rajauria

00.00	ATEMENT: The student will be able to	Level
	Know the various statistical methods to solve different types of problems	L1, L2
CO1	Know, the various statistical methods to solve different types	L2, L3
CO2	Operate various statistical software packages	L2, L3
CO3	Appreciate the importance of Computer in hospital and Community Pharmacy	
CO4	Appreciate the statistical technique in solving the pharmaceutical problems	L2, L3
CO5	Research Parameters	L2, L3, L4

Course	Sessional 1	Sessional 2	Sessional 3	End Term Exam
Outcomes	1			/
CO PD 44.1			1	/
CO PD.44.2	V	,	· · · · · · · · · · · · · · · · · · ·	1
CO PD 44.3	/	V	· · · · · · · · · · · · · · · · · · ·	,
CO PD 44.4	K	<b>/</b>	7	-
CO PD 44.5		1		

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Biopharmaceutics & Pharmacokinetics
22 PD 45T
Pharmacy
PB 1st
2022-2023
Dr. Gaurav Rajauria

	The student will be able to	Level
CO ST.	ATEMENT: The student will be able to  Broader understanding about the concepts of biopharmaceutics and	L1, L2
CO2	pharmacokinetics.  Ability to calculate the various pharmacokinetic parameters by using	L2, L3
CO2	and the matter and models.	L2, L3
CO3	Ability to design a basic protocol for the conduct of BA/BE study and the interpretation of the BA/BE data	
CO4	Preparedness to use the concepts of pharmacokinetic principles in the	L2, L3
205	clinical contexts.  Ability to design and perform <i>in-vitro</i> dissolution studies for various drugs	L2, L3,
CO5	as per the standards of official monographs	L4

Course	Sessional 1	Sessional 2	Sessional 3	End Term Exam
Outcomes	1		E	/
CO PD 45.1			1	1
CO PD 45.2	· · · · ·			1
CO PD 45.3	1	<b>/</b>		,
CO PD 45.4		/	<b>V</b>	<b>V</b>
CO PD 45.5		1		/

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COS POI PO2	103	101	1.00	-								



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NAME OF SUBJECT:	Clinical Toxicology
SUBJECT CODE :	22 PD 46T
BRANCH	Pharmacy
SEMESTER/YEAR	PB 1st
SESSION	2022-2023
FACULTY NAME	Dr. Gaurav Rajauria

COCT	ATEMENT: The student will be able to	Level
CO1	Developing general working knowledge of the principles and practice of clinical toxicology	L1, L2
CO2	Demonstrating an understanding of the health implications of toxic	L2, L3
CO3	Demonstrating and applying an understanding of general toxicology	L2, L3
CO4	Demonstrating and applying an understanding of the history, assessment, and therapy considerations associated with the management of a toxic	L2, L3
CO5	Demonstrating and apply an understanding of the characteristics of and treatment guidelines for specific toxic substances	L2, L3, L4

Course Outcomes	Sessional 1	Sessional 2	Sessional 3	End Term Exam
CO PD 46.1	1			
CO PD 46.2	1		· /	1
CO PD 46.3	/	1	/	/
CO PD 46.4		/	1	/
CO PD 46.5		1		1



COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
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NAME OF SUBJECT:	Pharmacotherapeutics I & II
SUBJECT CODE :	22 PD 47T
BRANCH	Pharmacy
SEMESTER/YEAR	PB 1st
SESSION	2022-2023 .
FACULTY NAME	Dr. Gaurav Rajauria

COST	ATEMENT: The student will be able to	Level
COI	The pathophysiology of selected disease states and the rationale for drug therapy.	L1, L2
CO2	The therapeutic approach to management of these diseases.	L2, L3
CO3	The controversies in drug therapy.	L2, L3
CO4	The importance of preparation of individualized therapeutic plans based on diagnosis.	L2, L3
CO5	Needs to identify the patientspecific parameters relevant in initiating drug therapy, and monitoring therapy (including alternatives, time-course of clinical and laboratory indices of therapeutic response and adverse effects).	L2, L3, L4

Course Outcomes	Sessional 1	Sessional 2	Sessional 3	End Term Exam
CO PD 47.1	1			/
CO PD 47.1	1		1	/
CO PD 47.3	1	/	/	. /
CO PD 47.4		, /	1	/
CO PD 47.5		1		/

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
003	101		-		1		-							



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2	-			-	1	1						3
2				-	1	1					3	2
3		_			-				1		 2	3
4			-	-	-	-	-	-	+	-	3	4
5				-	-	-	-	-	-	-		-
Avg.												_

Employability Entrepreneurship Skill Development

