



Children's Education Society (Regd.)

The Oxford College of Pharmacy

(Recognised by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka;

Approved by Pharmacy Council of India, New Delhi)

Accredited by NAAC and International Accreditation Organization (IAO)

EVALUATION OF ATTAINMENT OF PROGRAM OUTCOMES AND COURSE OUTCOME BY THE INSTITUTION

The Oxford College of Pharmacy has a well-defined Course Outcomes for all course as per RGUHS Guideline. Those Course Outcomes (COs) are what the student should be able to do at the end of a course. The most important aspect of those COs are that it should be observable and measurable.

Each COs are assessed by using Direct assessment tools that reflect the knowledge level and skills of the students based on their performance in Continuous Assessment Test, Assignments, Tutorials, Concept Test etc. This Direct assessment is taken to attain individual Course Outcomes (COs) as per the university guidelines. As University has not given any POs so partial attainment only done and no weightage attainment is calculated.

When assessing student learning, two of the most common approaches followed by college are formative and summative assessments. The uses of a formative assessment is to gauge student understanding and identify knowledge gaps that may need extra work. Summative assessments are conducted at the end of a defined learning period and often represent the final grade for the course.



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P. Padma
PRINCIPAL



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Summary on Crosscutting Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum, Projects, Internship and Field work

The Oxford College of Pharmacy in Bangalore has incorporated a variety of courses into its curriculum, some of which aim to improve professional competencies and others of which aim to instil general competencies such as social ethical values, human values, environmental sensitivity, and so on, resulting in students' holistic development.

Ethics in education supports in educational system management and ensures that these behaviours contribute favourably to human well-being. The college has worked hard to provide value-based education to students in order to help them understand moral values and professional ethics, with the goal of strengthening values for a better citizen. Students in all pharmacy programmes are taught a variety of courses in order to instil and practise human values and professional ethics. Human values and professional ethics are addressed through the course "Pharmaceutical jurisprudence" offered in the V semester of UG programme.

Gender equality safeguards women and girls from harm. It is required for economic growth. The institution, imparting quality education to shape global leaders has firm belief in gender equity which is indispensable to ensure sustainable development of a country. To provide counselling to students, promote gender equity among students, and handle issues impacting the safety and security of female students, employees, and professors, the college has a Women's Grievance Cell.

To enhance awareness of environmental and sustainability issues, a variety of activities were organised for students from all programmes, including seminars, workshops, guest lectures, industry visits, and field excursions: The issues of Environment and Sustainability are addressed through the course "Environmental Studies" offered to pharmacy students in the V semester as well.

Projects/Internship/Fieldwork is an integral part of university syllabus which has been incorporate to impart the practical knowledge among students. The college has assigned well planned project works, internship practices and field works to the students of B.Pharm final year, M.Pharm final year & Pharm D



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fifth & sixth year. The projects & field works are well related & fulfil the present requirements of pharmacy field whereas internship gives an extensive idea of Clinical pharmacy to the students.

Signature

Dean Academic

Signature

Principal

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THE OXFORD COLLEGE OF PHARMACY
 6/9, 1st CROSS, BEGUR ROAD, HONGASANDRA, BANGALORE-560068
CALENDAR OF EVENTS-ACADEMIC YEAR 2022-2023
B.PHARM, M.PHARM, PHARM.D, PHARM.D(P.B)

1	3rd WEEK OF SEP 2022 (21 SEP 2022) TENTATIVELY	Inauguration & Orientation Commencement of Classes For I Year (Isem) B.Pharm & I sem M.Pharm and I Year Pharm.D, I PharmD (PB)
2	3RD WEEK DEC 2022 (11 DEC 2023) TENTATIVELY	Commencement of Classes For III, V and VII sem of B.Pharm, I and III sem M.Pharm, II-V Year Pharm.D, II year Pharm.D (PB) & Commencement of Hospital Internship for VI PharmD and III PB students
3	4TH WEEK OF DEC 2022	Seminar/workshop/Guest lecture (Pharma.chemistry Dept) & IQAC
4	4TH WEEK OF JAN 2023	Seminar/workshop/Guest lecture (Pharmacy practice Dept) & IQAC
5	2nd WEEK OF FEB 2023	I-Sessional Examination- I, III, V and VII sem of B.Pharm (RS5)/ I and III Sem M.Pharm (RS5)
6	4TH WEEK OF FEB 2023	seminar/workshop/Guest lecture (Pharmaceutics Dept) & IQAC
7	2nd WEEK OF MAR 2023	I-Sessional Examination for I to V Pharm D (RS2), II Pharm D PB (RS).
8	3RD WEEK OF MAR 2023	seminar/workshop/Guest lecture (Pharmacology Dept) & IQAC
9	4TH WEEK OF MAR 2023	seminar/workshop/Guest lecture (Pharmacognosy Dept) & IQAC
10	1ST WEEK OF MAY 2023	II-Sessional Examination- I, III, V and VII sem of B.Pharm (RS5)/ I and III sem M.Pharm (RS5)
11	2ND WEEK OF MAY 2023	Non University subj. End semester Exam I sem B.Pharm, III sem M.Pharm
12	3RD WEEK OF MAY 2023	Finalization of Internal Assessment Marks for I/III/V/VII semester B.Pharm (RS5) and I/III Sem M.Pharm (RS5) & Last date for submission of IA Marks to RGUHS
13	MAY/ JUNE 2023 (TENTATIVELY)	RGUHS End Sem Exam -I, III, V and VII sem of B.Pharm (RS5)/ I & III sem M.Pharm (RS5) & RGUHS Supplementary Exam B.Pharm, M.Pharm, Pharm.D
14	3RD WEEK OF JUNE 2023	II Sessional Examination for I-V Pharm D, I & II Pharm D PB
15	4TH WEEK OF JUNE 2023	Commencement of classes for Even semester B.Pharm/ M.Pharm
16	4th WEEK OF JUNE 2023	seminar/workshop/Guest lecture (Pharmaceutics Dept) & IQAC
17	2ND WEEK OF JULY 2023	Seminar/workshop/Guest lecture (Pharmacy practice Dept) & IQAC
18	2ND WEEK OF AUG 2023	seminar/workshop/Guest lecture (Pharmacology Dept) & IQAC
19	3RD WEEK OF AUG 2023	I-Sessional Examination- II, IV and VI sem of B.Pharm (RS5)/ II sem M.Pharm (RS5)
20	4TH WEEK OF AUG 2023	seminar/workshop/Guest lecture (Pharmacognosy Dept) & IQAC
21	1ST WEEK OF SEP 2023	seminar/workshop/Guest lecture (Pharma.chemistry Dept) & IQAC
22	2ND WEEK OF SEP 2023	Online /Offline Alumni Meet-2023
23	2 ND WEEK OF SEP 2023	Cultural events
24	3RD WEEK OF SEP 2023	III Sessional Examination for I-V Pharm D, I & II Pharm D PB
26	1ST WEEK OF OCT 2023	Last Working Day of Academic Year 2022-23 For I-V Pharm D (RS2), I & II Pharm D PB (RS)
25	2ND WEEK OF OCT 2023	II-Sessional Examination- II, IV and VI sem of B.Pharm (RS5)/ II sem M.Pharm (RS5)
29	2 ND WEEK OF OCT 2023	M.Pharm (RS5) IV semester -Dissertation submission last date to RGUHS
27	3RD WEEK OF OCT 2023	Last Working Day of Academic Year 2022-23 For Semester B.Pharm, M.Pharm
28	3RD WEEK OF OCT 2023	Finalization of Internal Assessment Marks for I-V Pharm D, I & II Pharm D PB and II/IV/VI/VIII semester B.Pharm (RS5) and II/IV Sem M.Pharm (RS5) & Last date for submission of IA Marks to RGUHS
30	1st WEEK OF Nov 2023 (TENTATIVELY)	RGUHS End Sem Exam -II, IV, VI and VIII sem of B.Pharm (RS5)/ II & IV sem M.Pharm (RS5) & RGUHS Supplementary Exam B.Pharm, M.Pharm & RGUHS Annual Exam Pharm.D, PharmD PB
31	3RD WEEK OF DEC 2023	Completion of Hospital internship of VI PharmD and III PB



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the Pharmacy Council of India, New Delhi)

M. PHARM (PHARMACOLOGY) RS5 – II SEMESTER

SESSIONAL EXAM (Internal Assessment)- I

Date of Exam : 29/08/2023

SUBJECT CODE:	MPL201T	TOTAL MARKS	30
SUBJECT NAME:	Advanced Pharmacology-II	EXAM HRS.	1 hour 10:00 to 11:00 AM

COURSE OBJECTIVE: The Objective of this course is to

- Produce postgraduates with advanced knowledge and understanding of pharmacology; higher order critical, analytical, problem solving and transferable skills.
- Uphold all laws, regulations, safety and ethical standards that apply to the experimental procedures in animals and the environment as well as to impart adequate hands-on training in various animal models and determine the effects of drugs using animal models
- Provide practical inputs in pharmacokinetic studies of various drugs and formulations in animals to establish in-vitro and in-vivo correlations and prepare the students in teamwork, lifelong learning and continuous improvement.

LONG ESSAYS (ANSWER ALL THE QUESTIONS) 4X7.5 = 30 MARKS	Marks	CO-PO-PSO #	Bloom's Taxonomy Level *
1. Discuss the MOA and Pharmacological action of Thyroid hormone.	7.5	CO (1), PO (1)	L2
2. Write a note on Oral Contraceptives.	7.5	CO (1), PO (1)	L1
3. What are aminoglycoside antibiotics? Write the mechanism of action, adverse reactions and therapeutic uses of streptomycin	7.5	CO (2), PO (1,10)	L2
4. What is ? Write the mechanism of action, adverse effects, and therapeutic uses of metronidazole.	7.5	CO (3), PO (1,3)	L2

{e.g. CO(1), PO (1-3,8,11), PSO (1,2)} * (e.g. L1, L2) Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

CO1	Understand Endocrine Pharmacology of drugs at cellular and molecular level
CO2	Discuss the pharmacotherapy of Antibiotics
CO3	Recognize the Pharmacotherapy of drug involved in autoimmune disease
CO4	Discuss GIT Pharmacology and application of Chronotherapy in various disease
CO5	Understand free radicals Pharmacology and its recent advancement in treatment.

CO-PO-PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	3	-	-	-	-	-	-	-	-	1	-	-	-	-
CO3	2	-	2	-	-	-	-	-	-	-	-	-	-	-
CO4	2	-	-	-	-	-	-	-	-	-	1	-	-	-
CO5	3	-	-	-	-	-	-	-	-	-	-	1	-	-



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M. PHARM (PHARMACOLOGY) RS5 – II SEMESTER															
SESSIONAL EXAM (Internal Assessment)- II															
Date of Exam : 27/10/2022															
SUBJECT CODE:	MPL201T					TOTAL MARKS					30				
SUBJECT NAME:	Advanced Pharmacology-II					EXAM HRS.					1 hour 10:00 to 11:00 AM				
<p>COURSE OBJECTIVE: The Objective of this course is to</p> <ul style="list-style-type: none"> • Produce postgraduates with advanced knowledge and understanding of pharmacology; higher order critical, analytical, problem solving and transferable skills. • Uphold all laws, regulations, safety and ethical standards that apply to the experimental procedures in animals and the environment as well as to impart adequate hands-on training in various animal models and determine the effects of drugs using animal models • Provide practical inputs in pharmacokinetic studies of various drugs and formulations in animals to establish in-vitro and in-vivo correlations and prepare the students in teamwork, lifelong learning and continuous improvement. 															
LONG ESSAYS (ANSWER ALL THE QUESTIONS) 4X7.5 = 30 MARKS						Marks	CO-PO-PSO #					Bloom's Taxonomy Level *			
1. Describe the Pharmacotherapy of Asthma.						7.5	CO (3), PO (1,3)					L1			
2. Classify immunosuppressant. Discuss the MOA and Pharmacological actions of any one Immunosuppressant.						7.5	CO (3), PO (1,3)					L1			
3. Describe the role of free radicals in D.M and discuss the recent advances in the treatment of Diabetes.						7.5	CO (5), PO (1), PSO (1)					L2			
4. Write the application of Chronotherapy of peptic ulcer.						7.5	CO (4), PO (1,11)					L3			
<p># {e.g. CO(1), PO (1-3,8,11), PSO (1,2)} * (e.g.L1, L2) Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge) , L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating</p>															
COURSE OUTCOMES															
CO1	Understand Endocrine Pharmacology of drugs at cellular and molecular level														
CO2	Discuss the pharmacotherapy of Antibiotics														
CO3	Recognize the Pharmacotherapy of drug involved in autoimmune disease														
CO4	Discuss GIT Pharmacology and application of Chronotherapy in various disease														
CO5	Understand free radicals Pharmacology and its recent advancement in treatment.														
CO-PO-PSO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	
CO1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	
CO2	3	-	-	-	-	-	-	-	-	1	-	-	-	-	
CO3	2	-	2	-	-	-	-	-	-	-	-	-	-	-	
CO4	2	-	-	-	-	-	-	-	-	-	1	-	-	-	
CO5	3	-	-	-	-	-	-	-	-	-	-	1	-	-	



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B. PHARM RS6 SEMESTER - II I SESSIONAL EXAM 2023-2024

Date of Exam: 29/08/23

SUBJECT CODE:	BP202T	TOTAL MARKS	30
SUBJECT NAME:	PHARMACEUTICAL ORGANIC CHEMISTRY I	EXAM Hrs.	1 hour 2:00-3:00 pm

COURSE OBJECTIVE: The Objective of this course is to

- Educate students to have sound knowledge in pharmaceutical sciences and to attain skills required in pharmacy profession.
- To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Pharmaceutical Industries, Community and Hospital Pharmacy and also to pursue higher studies.
- To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmaceutical formulation & development, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins.

I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO-PO-PSO #	Bloom's Taxonomy Level *
1. Define the kinetics, mechanism and stereochemistry and reactivity of SN2 reactions.	10	CO (3), PO(1)	L1
2. Write the kinetics and mechanism of E ₂ reaction.	10	CO (3), PO(1)	L1
II SHORT ESSAYS 2X5 = 10 MARKS			
3. Explain the mechanisms of Markownikov's and Anti-markovnikov's addition reaction (OR) Discuss the mechanism of 1,2 & 1,4 addition reaction with examples.	5	CO (2), PO (1,3,4)	L1
4. Write any four methods of preparation of alkanes and alkenes	5	CO (2), PO (1,3,4)	L1
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS			
5. What is positional isomerism? Give examples	2	CO (1), PO (1,4)	L1
6. Write the structure of 1,3-Butadiene and Isopropyl alcohol	2	CO (1), PO (1,4)	L1
7. Write any two preparation of alkyl halide.	2	CO (2), PO (1,3,4)	L1
8. Define metamerism with example.	2	CO (1), PO (1,4)	L1
9. What is Saytzeff rule.	2	CO (2), PO (1,3,4)	L1

{e.g. CO(1), PO (1-3,8,11), PSO (1,2)} * (e.g.L1, L2) Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

CO1 To write the structure, name and the type of isomerism of the organic compound

CO2 To write the reaction, name the reaction and orientation of reactions

CO3 To account for reactivity/stability of compounds.

CO4 To identify/confirm the identification of organic compound

CO-PO-PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	1	-	1	1	-	-	-	-	-	-	-	-	-	1
CO2	1	-	1	3	-	-	-	-	-	-	-	-	-	1
CO3	1	-	2	2	-	-	-	-	-	-	-	-	-	3
CO4	1	-	-	1	-	-	-	-	-	-	-	-	-	1



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B. PHARM RS5 SEMESTER - II														
II- SESSIONAL EXAM (Internal Assessment)														
Date of Exam : 17/10/2023														
SUBJECT CODE:	BP202T	TOTAL MARKS	30											
SUBJECT NAME:	PHARMACEUTICAL ORGANIC CHEMISTRY -I	EXAM Hrs.	1 hour 10-11 am											
COURSE OBJECTIVE: The Objective of this course is to														
<ul style="list-style-type: none"> Educate students to have sound knowledge in pharmaceutical sciences and to attain skills required in pharmacy profession. To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Pharmaceutical Industries, Community and Hospital Pharmacy and also to pursue higher studies. To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmaceutical formulation & development, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins. 														
I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS.	Marks	CO-PO-PSO #	Bloom's Taxonomy Level *											
1. Explain the reaction and mechanism of Perkin condensation and Benzoin condensation	10	CO(2),PO(1,3,4)	L1											
2. Explain the Cannizzaro condensation and crossed Cannizzaro condensation with mechanism.	10	CO(2),PO(1,3,4)	L1											
II SHORT ESSAYS 2X5 = 10 MARKS														
3. A) What are carbonyl compounds? Describe any two methods of preparation for aldehydes and ketones.	5	CO(3),PO(1)	L1											
(OR)	5	CO(3),PO(1)	L1											
3. B) Give any four preparation of carboxylic acids.	5	CO(3),PO(1)	L1											
4. Explain the basicity of amines.	5	CO(3),PO(1)	L1											
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS														
5. Write any two qualitative tests for amides.	2	CO(4),PO(1)	L1											
6. Write the structure and uses of succinic acid and oxalic acid	2	CO(1),PO(1,4)	L1											
7. What is Cross Aldol condensation?	2	CO(2),PO(1,3,4)	L1											
8. Write any two qualitative test for esters.	2	CO(4),PO(1)	L1											
9. Write the structure and uses of Benzaldehyde and paraldehyde.	2	CO(1),PO(1,4)	L1											
* {e.g. CO(1), PO (1-3,8,11), PSO (1,2)} * (e.g.L1, L2) Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating														
COURSE OUTCOMES														
CO1--- To write the structure, name and the type of isomerism of the organic compound.														
CO2--- To write the reaction, name the reaction and orientation of reactions.														
CO3--- To understand reactivity/stability of compounds														
CO4--- To identify/confirm the identification of organic compound														
CO-PO-PSO MAPPING														
	PO1	PO2	PO3	PO4	PO5	PO6	PO 7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO 3
CO1	1	-	-	1	-	-	-	-	-	-	-	-	-	-
CO2	1	-	1	1	-	-	-	-	-	-	-	-	-	-
CO3	1	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	1	-	-	-	-	-	-	-	-	-	-	-	-	-



The Oxford College of Pharmacy, Hongasandra, Bengaluru- 560068
 (RGUHS, Pharm D & Pharm D (Post Baccalaureate Revised Regulations 2008.
 (Effective from 2012-2013))

PHARM D RS2 - YEAR - II PHARM D RS2 - YEAR - II SESSIONAL EXAM (Internal Assessment)-I SESSIONAL EXAM (Internal Assessment)-I Date of Exam: 27/05/2023															
SUBJECT CODE:	PHLD2B061b	TOTAL MARKS	30												
SUBJECT NAME:	PHARMACOTHERAPEUTICS - I	TOTAL MARKS	30												
		EXAM Hrs.	02.00 to 03.30 PM												
COURSE OBJECTIVE:															
a. the pathophysiology of selected disease states and the rationale for drug therapy;															
b. the therapeutic approach to management of these diseases;															
c. the controversies in drug therapy;															
d. the importance of preparation of individualised therapeutic plans based on diagnosis															
e. needs to identify the patient-specific parameters relevant in initiating drug therapy, and monitoring therapy (including alternatives, time-course of clinical and laboratory indices of therapeutic response and adverse effects)															
I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO-PO #	Bloom's Taxonomy Level *												
1. Discuss in detail the management of osteoporosis?	10	CO2, PO(1,2,3,4,6,7,9,10) PSO1,3	L1												
2. Define and classify Diabetes mellitus ? discuss in detail about insulin in diabetic management ?	10	CO1,PO1,6,11 PSO1	L1												
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS															
3. Explain different pulmonary function test?	5	CO3 PO1,2,3,6,7,8,9,10 PSO1,3	L1												
4. Explain treatment modalities of hypothyroidism ?	5	CO2, PO(1,2,3,4,6,7,9,10) PSO1,3	L1												
5. Explain the principles of oral contraception ?	5	CO2, PO(1,2,3,4,6,7,9,10) PSO1,3	L1												
III SHORT ANSWERS (ANSWER ALL)5X2 = 10 MARKS															
6. Define HRT and its significance ?	2	CO2, PO(1,2,3,4,6,7,9,10) PSO1,3	L1												
7. Define Hb1AC ?	2	CO3 PO1,2,3,6,7,8,9,10 PSO1,3	L1												
8. Differentiate between emphysema and bronchitis?	2	CO2, PO(1,2,3,4,6,7,9,10) PSO1,3	L1												
9. Enlist the various microvascular and macrovascular complication associated with DM ?	2	CO3 PO1,2,3,6,7,8,9,10 PSO1,3	L1												
10. Define PEFr and FEV1 ?	2	CO1,PO1,6,11 PSO1	L1												
= {e.g. CO(1), PO (1-3,8,11)} * (e.g.L1, L2) Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge) , L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating															
COURSE OUTCOMES															
CO1: Impart knowledge and skills necessary for contribution to quality use of medicines To study the etiopathogenesis of selected diseases															
CO2: knowledge about the rationality of drug therapy and study the therapeutic approach in the management of diseases.															
CO3: Understand controversies in drug therapy and preparation of the individualized therapeutic plan based on diagnosis.															
CO4: Learn and apply patient specific parameters in initiating drug therapy and distinguish the management strategies of selected diseases in special populations.															
CO5: Study in detail the concepts of essential drug concept and rational drug therapy Assess drug safety monitoring, contraindications and treatment outcomes and modify treatment plan as needed.															
CO-PO-PSO MAPPING															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	
CO1	3	-	-	-	-	1	-	-	-	-	1	3	-	-	
CO2	3	3	3	1	-	2	1	-	1	1	-	1	-	2	
CO3	3	2	2	-	-	2	1	1	1	1	-	1	-	2	
CO4	2	1	-	3	2	1	1	2	-	1	1	1	1	-	
CO5	2	-	1	2	-	1	1	1	2	1	1	1	-	1	



SUBJECT CODE:	PHAD2B06Th	TOTAL MARKS	30
SUBJECT NAME:	PHARMACOTHERAPEUTICS I	EXAM Hrs.	10:00-11:30 AM

COURSE OBJECTIVE: The Objective of this course is to
The pathophysiology of disease states and the rationale for drug therapy. Therapeutic approach to management. Controversies in drug therapy. Individualized therapeutic plans based on diagnosis. Identify the patient-specific parameters relevant in initiating drug therapy, and monitoring therapy. Explain the rationale for drug therapy. To summarize the therapeutic approach to management of these diseases. To discuss the controversies in drug therapy. Individualized therapeutic plans based on diagnosis.

I LONG ESSAYS (ANSWER ANYONE) 1X10 = 10 MARKS	Marks	CO-PO-PSO #	Bloom's Taxonomy Level *
1. Explain the etiopathogenesis, pharmacotherapy for cardiac arrhythmia with treatment algorithm	10	CO2, PO(1,2,3,4,6,7, 9,10) PSO 1,3	L1
2. Explain etiopathogenesis, clinical manifestations of hypertension. Discuss management of HTN With special reference to drug of choice.	10	CO1, PO1-6,9-11, - PSO1	L1
II SHORT ESSAYS (ANSWER ANY TWO) 2X5 = 10 MARKS			
3. Write note on ECG?	5	CO3, PO(1,2,3,6,7,8, 9,10) PSO1,3	L1
4. Explain the role of diuretics and sympathomimetics in CHF	5	CO2, PO(1,2,3,4,6,7, 9,10) PSO 1,3	L1
5. Explain treatment algorithm for treatment of acute MI?	5	CO2, PO1-3, 4,6-10, PSO1, 3	L1
III SHORT ANSWERS (ANSWER ALL) 5X2 = 10 MARKS			
6. Mention NYHA classification of functional status of patient with heart failure	2	CO3, PO(1,2,3,6,7,8, 9,10) PSO1,3	L1
7. Mention drugs which cause Q-T Prolongation?	2	CO3, PO(1,2,3,6,7,8, 9,10) PSO1,3	L1
8. Define Angina Pectoris, outline different types of Angina?	2	CO1, PO1-6,9-11, PSO1	L1
9. Explain DASH therapy?	2	CO2, PO(1,2,3,4,6,7, 9,10) PSO 1,3	L1
10. Explain the role of statins in hyperlipidemia	2	CO2, PO(1,2,3,4,6,7, 9,10) PSO 1,3	L1

{e.g., CO(1), PO (1-3,8,11), PSO (1,2)} * (e.g. L1, L2) **Note:** Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

CO	DESCRIPTION
CO1	Impart knowledge and skills necessary for contribution to quality use of medicines To study the etiopathogenesis of selected diseases
CO2	Knowledge about the rationality of drug therapy and study the therapeutic approach in the management of diseases.
CO3	Understand controversies in drug therapy and preparation of the individualized therapeutic plan based on diagnosis.
CO4	Learn and apply patient specific parameters in initiating drug therapy and distinguish the management strategies of selected diseases in special populations.
CO5	Study in detail the concepts of essential drug concept and rational drug therapy Assess drug safety monitoring, contraindications and treatment outcomes and modify treatment plan as needed

CO PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	-	-	-	-	1	-	-	-	-	1	3	-	-
CO2	3	3	3	1	-	2	1	-	1	1	-	1	-	2
CO3	3	2	2	-	-	2	1	1	1	1	-	1	-	2
CO4	2	1	-	3	2	1	1	2	-	1	1	1	1	-
CO5	2	-	1	2	-	1	1	1	2	1	1	1	-	1



The Oxford College of Pharmacy, Hongasandra, Bengaluru- 560068
(RGUHS, Pharm D & Pharm D (Post Baccalaureate Revised Regulations 2008.
(Effective from 2012-2013)

PHARMD RS2 YEAR - II SESSIONAL EXAM (Internal Assessment)- III Date of Exam 03/10/2023			
SUBJECT CODE:	PHAD2B06Th	TOTAL MARKS	30
SUBJECT NAME:	PHARMACOTHERAPEUTICS - I	EXAM Hrs.	02:00-03:30 PM

COURSE OBJECTIVE: The Objective of this course is to

- Educate students to have sound knowledge and to impart skills necessary for contribution to quality use of medicines, pathophysiology and therapeutics of various diseases. To enable the student to understand the pathophysiology of common diseases and their management in pharmaceutical sciences and to attain skills required in pharmacy profession.
- To afford students with proficiency of technical skills in various area of subjects in pharmaceutical sciences and enabling them to fulfill the requirements of Community and Hospital Pharmacy, Pharmacovigilance, Clinical research and also to pursue higher studies
- To provide up to date knowledge in theory and practical and relevant training to students about the subjects of Pharmacotherapeutics, Pathophysiology, Pharmaceutical formulations, Pharmaceutical chemistry, Drug regulatory affairs, Pharmacology of drugs, drug analytical methods, drugs of natural origins

I LONG ESSAYS (ANSWER ANY ONE) 1X10 = 10 MARKS	Marks	CO-PO #	Bloom's Taxonomy Level *
1. Classify Glaucoma ? Draw A Neat Algorithm For Pharmacotherapy Of Open Angle Glaucoma?	10	CO1, PO(1,6,11) PSO1	L2
2. Explain Prescribing Guideline In Pregnancy	10	CO4, PO(1,2,4,5,6,7,8,10, 11)PSO1,2	L1
ii Short Essays (Answer Any Two) 2x5 = 10 Marks			
3. Define Rational Drug Use And Explain Role Of Pharmacist In Essential Drug Concept ?	5	CO5 PO(1,3,4,6,7,8,9,10, 11)PSO1,3	L1
4. Explain principles and goals of drug therapy in Geriatric Patients ?	5	CO4, PO(1,2,4,5,6,7,8,10, 11)PSO1,2	L2
5. Discuss The Etiology, Pathogenesis, Signs& Symptoms Of Bacterial Conjunctivitis?	5	CO1, PO1,6,11 PSO1	L1
iii Short Answers (Answer All)5x2 = 10 Marks			
6. Classify pediatric age groups.	2	CO4, PO(1,2,4,5,6,7,8,10, 11)PSO1,2	L1
7. Mention The Counseling For Patients Taking Eye Drops?	2	CO1, PO1,6,11 PSO1	L1
8. Dosage Calculation For Paediatrics	2	CO4, PO(1,2,4,5,6,7,8,10, 11)PSO1,2	L2
9. Enlist 4 Teratogenic Drugs	2	CO4, PO(1,2,4,5,6,7,8,10, 11)PSO1,2	L1
10. Enlist The Drugs Used For Treating viral Conjunctivitis With Their Adverse Effects	2	CO1, PO1,6,11 PSO1	L1

= [e.g. CO(1), PO (1-3,8,11)] * (e.g.L1, L2) Note: Bloom's taxonomy has 6 levels which are: L1 Remembering (Knowledge), L2 Understanding (Comprehension), L3 Applying, L4 Analyzing, L5 Evaluating and L6 Creating

COURSE OUTCOMES

CO1: Impart knowledge and skills necessary for contribution to quality use of medicines

To study the etiopathogenesis of selected diseases

CO2: knowledge about the rationality of drug therapy and study the therapeutic approach in the management of diseases

CO3: Understand controversies in drug therapy and preparation of the individualized therapeutic plan based on diagnosis

CO4: Learn and apply patient specific parameters in initiating drug therapy and distinguish the management strategies of selected diseases in special populations

CO5: Study in detail the concepts of essential drug concept and rational drug therapy

Assess drug safety, monitoring, contraindications and treatment outcomes and modify treatment plan as needed

CO-PO-PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	-	-	-	-	1	-	-	-	-	1	3	-	-
CO2	3	3	3	1	-	2	1	-	1	1	-	1	-	2
CO3	3	2	2	-	-	2	1	1	1	1	-	1	-	3
CO4	2	1	-	3	2	1	1	2	-	1	1	1	1	-
CO5	2	-	1	2	-	1	1	1	2	1	1	1	-	1



Course: M Pharm II Semester
Student name:

Subject: Advanced Pharmacology-II (MPL201T)
Staff In charge: Dr. Noopur Srivastava

S. No	Name of the Chapter	Class test Date/mark (10)	Assignment Date/mark (10)	Seminar Date / Mark (10)	Regular Practical Viva Date/mark (10)	Marks	Sign
I SESSIONAL							
1.	Endocrine Pharmacology						
2.	Chemotherapy						
3.	Chemotherapy & Immunopharmacology (Half Portion)						
		Total Marks (Out of 30)	Average (Out of 2marks)	Attendance (8 marks)	Total (10 marks)		
Total Marks obtained in theory							
		Total Marks (Out of 30)	Average (Out of 8.5 marks)	Attendance (4 marks)	Total (12.5 marks)		
Total Marks obtained in Assignment							
		Total Marks (Out of 30)	Average (Out of 8.5 marks)	Attendance (4 marks)	Total (12.5 marks)		
Total Marks obtained in Seminar							
		Record (2.0 marks)	Regular viva (2.0 marks)	Attendance (6 marks)	Total (10 marks)		
Total Marks obtained in practical of Pharmacology -II							
II SESSIONAL							
4.	Chemotherapy & Immunopharmacology (Half Portion)						
5.	GIT Pharmacology						
6.	Free radicals Pharmacology & Recent Advances in Treatment						
		Total Marks (Out of 30)	Average (Out of 2marks)	Attendance (8 marks)	Total (10 marks)		
Total Marks obtained in theory							
		Total Marks (Out of 30)	Average (Out of 8.5 marks)	Attendance (4 marks)	Total (12.5 marks)		
Total Marks obtained in Assignment							
		Total Marks (Out of 30)	Average (Out of 8.5 marks)	Attendance (4 marks)	Total (12.5 marks)		
Total Marks obtained in Seminar							
		Record (2.0 marks)	Regular viva (2.0 marks)	Attendance (6 marks)	Total (10 marks)		
Total Marks obtained in practical of Pharmacology -II							

Signature of Subject In-charge.

Signature of Mentor

Signature of H.O.D



Course: II Sem B Pharm

Student Name:

Subject: Pharmaceutical Organic Chemistry-I

Staff In-charge: Mrs Chanda Ranjan

S.No	TOPIC	Class Test [10]	Home Assign [10]	Viva [10]	Sign
I SESSIONAL					
1.	Classification, nomenclature and isomerism				
2.	Alkanes*, Alkenes* and Conjugated dienes*				
3.	Alkyl halides*				
	Total				
	Average (allotted for Theory)	Class test [3]	Home assign [3]	Attendance [4]	Total [10]
	Average (obtained for Theory)				
	Average (allotted for Practical)	Viva [1.5]	Record [1.5]	Attendance [2]	Total [5]
	Average (obtained for Practical)				
II SESSIONAL					
4.	Alcohols*				
5.	Carbonyl compounds* (Aldehydes and ketones)				
6.	Carboxylic acids*, Aliphatic amines*				
	Total				
	Average (allotted for Theory)	Class test [3]	Home assign [3]	Attendance [4]	Total [10]
	Average (obtained for Theory)				
	Average (allotted for Practical)	Viva [1.5]	Record [1.5]	Attendance [2]	Total [5]
	Average (obtained for Practical)				

Signature of subject In-charge

Signature of Mentor

Signature of H.O.D



Student Name -
Course: II Pharm D

Reg No -

Subject: PCTH I
Staff In-Charge: Dr SRIPRIYA

SL NO	NAME OF TOPIC	TEST DATE & MARK (10)	ASSIGN DATE & MARK (10)	VIVA DATE & MARK (10)	MARKS	SIGN
I SESSIONAL						
1.	Thyroid disorder , osteoporosis					
2.	Diabetes mellitus, oral contraceptives, hormonal replacement					
3.	RESPIRATORY SYSTEM-Asthma, COPD, drug induced pulmonary disease					
TOTAL MARKS (OUT OF 80)						
AVERAGE (OUT OF 4 MARKS)						
II SESSIONAL						
4.	Cardiovascular system – Hypertension, CHF					
5.	Angina pectoris, Myocardial infarction,Hyperlipidemia					
6.	Electrophysiology of heart, cardiac arrhythmias					
TOTAL MARKS (OUT OF 80)						
AVERAGE (OUT OF 4 MARKS)						
III SESSIONAL						
7.	General prescribing guidelines for paediatric patients, geriatric patients pregnancy and breast feeding					
8.	Ophthalmology – glaucoma , conjunctivitis					
9.	Introduction to rational drug use					
TOTAL MARKS (OUT OF 80)						
AVERAGE (OUT OF 4 MARKS)						
AVERAGE (3 SESSIONAL)						
SCORE WILL BE INCLUDED IN PRACTICAL SESSIONAL MARKS						
SIGNATURE OF SUBJECT IN-CHARGE		SIGNATURE OF MENTOR		SIGNATURE OF H.O.D		