





Sunthagally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmrity, Hyderabad - 501 512.

Regulation: PCI ,(R08) Subject: Remedial Mathematics Year: I

Faculty: T. Bhargavi Assistant Professor.

Course Outcomes

CO106.1 Apply mathematical concepts and principles to perform computations for Pharmaceutical Sciences.

CO106.2 Create, use and analyze mathematical representations and mathematical relationships

CO106.3 Communicate mathematical knowledge and understanding to help in the field of Clinical Pharmacy

CO106.4 Perform abstract mathematical reasoning

CO-PO Mapping

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CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO106.1	3	0	3	3	0	0	0	1	0	1	1	1	0	1
CO106.2	3	1	1	2	0	0	0	2	0	0	1	1	2	0
CO106.3	2	0	3	2	0	0	0	2	1	1	1	1	0	1
CO106.4	3	3	3	3	0	0	0	2	0	0	1	1	3	1
CO AVG	2.75	1	2.5	2.5	0	0	0	1.75	0.25	0.5	1	1	1.25	0.75

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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Rameji Filmcity, Hyderabad - 501 512.

Regulation:PCI ,(R08) Subject:Pharmaceutical Organic Chemistry Year: I

Faculty: G Swapna, Assistant Professor.

Course Outcomes

CO104.1 To be able to give systematic names to simple organic compounds and poly functional

CO104.2 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.

CO104.3 To acquire the knowledge and understanding of the basic experimental principles of pharmaceutical organic chemistry.

CO104.4 To draw the structures and synthesize simple pharmaceutically active organic compounds.

CO-PO Mapping

						CO	r O Map	ning						
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO104.1	1	1	1	1	1	0	0	1	1	1	1	2	1	1
CO104.2	1	1	1	1	1	0	0	1	1	1	1	2	1	1
CO104.3	1	1	1	1	1	0	0	1	1	1	1	3	3	2
CO104.4	1	1	1	1	1	0	0	1	1	1	1	3	3	2
CO AVG	1	1	1	1	1	0	0	1	1	1	1	2.5	2	1.5

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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Rameji Filmcity, Hyderabad - 501 512.

Regulation:PCI ,(R08) Subject :Pharmaceutics Year : I

Faculty: B. Manjula, Associate Professor

Course Outcomes

- CO102.1 Outline the classification of dosage forms, handling of prescription and summarize the importance of posology.
- CO102.2 Solve the pharmaceutical calculations involved in design of dosage form.
- CO102.3 Understand the formulation of powders, granules & monophasic dosage forms.
- CO102.4 Identify the types incompatibilities in dosage forms & avoid the incompatibilities during dispensing.

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO102.1	2	0	2	1	0	1	3	0	1	0	0	2	1	1
CO102.2	3	0	3	3	0	2	1	0	1	0	0	2	1	1
CO102.3	3	0	3	3	0	2	1	0	2	0	0	2	1	1 _
CO102.4	3	0	3	3	0	2	1	0	2	0	0	2	1	1
CO AVG	2.75	0	2.75	2.5	0	1.75	1.5	0	1.5	0	0	2	1	1

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Regulation: PCI, (R08) Subject: Human Anatomy And Physiology Year: I

Faculty: Di	r. P. Swath	i Patel Ass	sistant Pro	fessor						_				
Course Out	tcomes													
CO101.1	They wou	ld have lea	rnt the gro	ss anatom	y, histolog	y and phy	siology o	f various	organs o	of the hum	an body.			
CO101.2	They wou	ld identify	the variou	s tissues ar	nd organs	associated	d with the	different	organ s	ystems wi	th help of	charts and	specimens.	
CO101.3	They wou	ld have stu	died the co	oordination	n in functi	oning of	lifferent c	organs of	each sys	tem.				
CO101.4	They wou	ld have un	derstood th	ne several	physiologi	cal home	ostatic me	echanism	s and the	eir imbala	nces in hu	man body.		
						CO-	PO Map	ping						
CO	PO 1	PO 2	PO 3	PO 4	PO 5	CO-PO 6	PO Map PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO CO101.1	PO 1	PO 2	PO 3	PO 4	PO 5	1		-	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
	PO 1 3 2	PO 2 2 0	PO 3	PO 4 3 0	PO 5	PO 6		-			PO 11	PSO 1 3 2	PSO 2 0 1	PSO 3
CO101.1	3	PO 2 2 0 2	PO 3 2 1 2	PO 4 3 0 2	1	PO 6	PO 7	-		0	PO 11 1 2 2	3	PSO 2 0 1 2	PSO 3 1 1 2

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CO AVG

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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.

Regulation:PCI ,(R08) Subject:Pharmaceutical Inorganic ChemistryYear : I

Faculty: S. Swathi, Assistant Professor.

Course Outcomes

CO105.2 Understand the principles and procedures of analysis of drugs and also regarding the application of inorganic pharmaceutical

CO105.3 Knowledge about the sources of impurities and methods to determine the impurities in inorganic drugs and pharmaceuticals

CO105.4 Appreciate the importance of inorganic pharmaceuticals in preventing and curing the disease.

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO105.1	0	0	0	1	1	0	0	1	0	1	1	3	0	1
CO105.2	0	0	0	1	1	0	0	1	0	1	1	3	0	0
CO105.3	0	0	0	1	1	0	0	1	0	1	1	3	0	1
CO105.4	3	2	2	1	2	0	0	3	0	2	2	3	1	0
CO AVG	0.75	0.5	0.5	1	1.25	0	0	1.5	0	1.25	1.25	3	0.25	0.5

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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Rameji Filmcity, Hyderobad - 501 512.

Regulation: PCI, (R08) Subject: Medicinal Biochemistry Year: I

Faculty: O. Venkateshwara Rao, Associate Professor

Course Outcomes

CO103.1 To understand the importance of metabolism of substrates.

CO103.2 Will acquire chemistry and biological importance of biological macromolecules

CO103.3 They would acquire knowledge in qualitative and quantitative estimation of the biological macromolecules.

CO103.4 To know the interpretation of data emanating from a Clinical Test Lab.

CO-PO Mapping

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CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO103.1	3	2	2	3	1	0	2	2	0	0	1	3	0	1
CO103.2	2	0	1	0	0	0	0	0	0	2	2	2	1	1
CO103.3	3	2	2	2	0	2	1	0	0	0	2	1	2	1
CO103.4	2	2	0	0	1	0	1	0	0	1	2	3	2	1
CO AVG	2.5	1.5	1.25	1.25	0.5	0.5	1	0.5	0	0.75	1.75	2.25	1.25	1

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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Rameji Filmcity, Hyderabad - 501 512.

Regulation: PCI, (R08) Subject: Pathophysiology Year: II

Faculty: Dr.K. Anusha, Assistant Professor

Course Outcomes

- CO201.1 Describe the etiology of the selected disease states.
- CO201.2 Describe the Pathogenesis of the selected diseased states.
- CO201.3 Name the signs and symptoms of the diseases.
- CO201.4 Mention the complications of the diseases.

CO-PO Mapping

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CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO201.1	3	1	1	2	1	0	0	3	0	1	0	2	1	1
CO201.2	3	1	1	2	1	0	0	3	0	1	0	2	1	1
CO201.3	3	1	2	2	1	0	0	3	0	1	1	2	1	1
CO201.4	3	1	1	1	1	0	0	2	0	1	1	2	1	1
CO AVG	3	1	1.25	1.75	1	0	0	2.75	0	1	0.5	2	1	1

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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.

Regulation:PCI,(R08) Subject:Pharmacotherapeutics-I Year: II

Faculty: Dr. MD. Abdul Azeem Assistant Professor/ Associate Professor.

Course Outcomes

CO206.2 Describe the Pathophysiology of selected disease states and explain the rationale for drug therapy

CO206.3 The controversies in drug therapy; Theimportance of preparation of individualised therapeutic plans based on diagnosis

CO206.4 Summarise the therapeutic approach tomanagement of these diseases including reference to the latest available evidence; discuss the controversies in drug therapy.

CO-PO Mapping

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CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO206.1	3	3	3	3	3	3	2	3	2	3	3	3	2	3
CO206.2	3	3	3	3	3	3	2	3	2	3	3	3	2	3
CO206.3	3	3	3	3	3	3	1	3	3	3	3	3	2	3
CO206.4	3	3	3	3	3	2	2	3	2	3	3	3	2	3
CO AVG	3	3	3	3	3	2.75	1.75	3	2.25	3	3	3	2	3





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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.

Regulation:PCI ,(R08) Subject:Pharmaceutical Microbiology Year: II

Faculty: T. Madhuri, Assistant Professor.

		,	The Ma	pping	of CO a	ind PO	on 3 po	int scal	e{high-	3,Mediu	m-2,Lov	w-1} is:			
	CO Attainment Level	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO202.1	2.3	1	2	2	3	1	0	0	2	0	0	1	1	0	1
CO202.2	2	1	2	2	3	1	0	0	2	0	0	1	1	0	1
CO202.3	2.3	3	2	2	3	1	0	0	2	0	0	1	1	0	1
CO202.4	2.3	1	2	2	2	1	0	0	1	0	0	1	1	0	1
PO/PSO Weigl	ntage	6	8	8	11	4	0	0	7	0	0	4	4	0	4
PO/PSO Co-relation weightage all Cos(1-4)		13.5	17.8	17.8	24.4	8.9	0	0	15.5	0	0	8.9	8.9	0	8.9
PO/PSO Attainment Level		2.25	2.23	2.23	2.22	2.23	-	-	2.21	ı		2.23	2.23	-	2.23

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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Rameji Filmcity, Hyderabad - 501 512.

Regulation: PCI, (R08) Subject: Community Pharmacy Year: II

Faculty: D. Uma Sankar Assistant Professor.

Course Outcomes

CO205.1	To be	able to	understand	the	disease	status
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CO205.2 Able to dispense the medication.

CO205.3 Able to understand the drug therapy.

CO205.4 Able to give patient counseling

CO-PO Mapping

						CO	I O Map	Ping						
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO205.1	3	3	3	3	3	1	0	3	1	3	3	3	2	1
CO205.2	2	1	3	3	3	0	2	3	3	3	2	2	1	1
CO205.3	3	3	3	3	3	0	0	3	1	3	2	3	1	1
CO205.4	2	2	3	3	3	3	3	3	2	3	1	2	1	2
CO AVG	2.5	2.25	3	3	3	1	1.25	3	1.75	3	2	2.5	1.25	1.25

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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Rameji Filmcity, Hyderabad - 501 512.

Regulation:PCI, (R08) Subject:Pharmacognosy &

Phytopharmaceuticals Year: II

Faculty: R. Ashok Kumar Assistant Professor

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COUPED	Outcomes	

CO203.1 To understand cell wall constituents an	d cel	inclusion
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CO203.2 To understand morphology, microscopy and powder characteristics of crude drugs

CO203.3 To be able to determine the quality of lipids

CO203.4 To be able to identify unorganized drugs by chemical methods

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO203.1	0	0	0	0	0	0	0	0	0	0	1	2	0	11
CO203.2	0	1	0	0	1	1	0	0	1	0	0	3	0	1
CO203.3	1	1	0	2	1	0	0	0	0	1	0	2	0	1
CO203.4	0	2	0	2	0	0	0	0	0	1	1	1	1	1
CO AVG	0.25	1	0	1	0.5	0.25	0	0	0.25	0.5	0.5	2	0.25	1

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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Rameji Filmcity, Hyderabad - 501 512.

Regulation:PCI,(R08) Subject:Pharmacology-I Year: II

Faculty: Dr. Santosh Kumar Panda, Professor.

Course Outcomes

CO204.1	Understand the pharmacologica	aspects of drugs fallin	g under the above mer	itioned chapters.

CO204.2 Handle and carry out the animal experiments. Correlate and apply the knowledge therapeutically.

CO204.3 Appreciate the importance of pharmacology subject as basis of therapeutics.

CO204.4 Correlate and apply the knowledge therapeutically.

CO-PO Mapping

	201	DO 2	DO 2	DO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO	PO 1	PO 2	PO 3	PO 4	ros	100	107	100	107	1010	1011	-	2	2
CO204.1	3	3	3	3	3	2	1	3	1	2	3	3	2	2
	2	1	2	2	2	1	2	3	1	2	3	3	2	2
CO204.2	2	1		3		1		-	1	2	2	2	2	2
CO204.3	2	1	2	3	2	1	2	3	1	2	3	3	2	
CO204.4	3	2	3	3	2	1	1	3	1	2	3	2	3	2
CU204.4	J	2		-	2.25	1.25	1.5	2	1	2	3	2.75	2.25	2
CO AVG	2.5	1.75	2.5	3	2.25	1.25	1.5	3	1		3	4.13	2.20	

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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Rameji Filmcity, Hyderabad - 501 512.

Regulation:PCI, (R08) Subject:Pharmacology-II Year: III

Faculty: P. Nagaraju, Associate Professor

Course Outcomes

CO301.1	To study	various routes of	drug administration	use of anesthetics in	laboratory	animals and their handling	
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- CO301.2 To learn the composition of physiological salt solutions and basic instruments used in experimental pharmacology
- CO301.3 To perform isolated experiments using various isolated preparation and the effect of different drugs on the concentration response curves
- CO301.4 To study the preclinical screening of various drugs

CO-PO Mapping

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CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO301.1	3	0	2	2	0	0	1	1	0	1	0	1	2	1
CO301.2	3	0	2	2	0	0	1	1	0	1	0	2	2	1
CO301.3	3	0	2	2	0	0	2	2	0	1	0	2	3	1
CO301.4	3	0	2	2	0	0	1	2	0	1	0	1	2	1
CO AVG	3	0	2	2	0	0	1.25	1.5	0	1	0	1.5	2.25	1

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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Rameji Filmcity, Hyderabad - 501 512.

Regulation: PCI, (R08) Subject: Pharmaceutical Formulations Year: III

Faculty: T. Madhuri, Assistant Professor

Course Outcomes

CO306.1	Understand classification, mechanism of action, structure activity relationship, synthesis, nomenclature and side effects of the drugs acting as
	antineoplastic agents

CO306.2 To prepare various pharmaceutical formulation

CO306.3 To perform evaluation of pharmaceutical dosage forms

CO306.4 To understand and appreciate the concept of bioavailability and bioequivalence, their role in clinical situations

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO306.1	3	0	2	2	0	0	0	2	1	1	0	1	1	0
CO306.2	3	0	2	3	0	0	0	1	1	1	0	1	2	0
CO306.3	3	0	2	2	0	0	0	1	1	1	0	1	2	0
CO306.4	3	0	2	3	0	0	0	1	1	1	0	2	2	0
CO AVG	3	0	2	2.5	0	0	0	1.25	1	1	0	1.25	1.75	0

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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Rameji Flimcity, Hyderabad - 501 512.

Regulation: PCI, (R08) Subject: Pharmaceutical Jurisprudence Year: III

Faculty: K. Lavanya, Assistant Professor

Course Outcomes

CO304.1	To appreciate study Pharmaceutica	l Legislation, relevance and	I significance of jurisprudence	to Pharmaceutical Sciences.
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CO304.2	To know fundamentals of legislation to regulate import manufacture, distribution and sales of drug and cosmetics.
0000112	To know tundamentals of registation to regulate import management, distribution and sales of and cosmiction.

CO304.3 To know the various parameters in the Drug and Cosmetic Act and rules, Drug policy, Drug Price Control Order, Patent and Design act.

CO304.4 To understand the concepts of Narcotic Drugs and Psychotropic substances, Pharmacy Act and Excise duties Act

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO304.1	2	0	1	0	0	2	1	0	3	1	0	1	1	0
CO304.2	2	0	1	0	0	2	1	0	3	2	0	1	1	0
CO304.3	2	0	1	0	0	3	2	0	2	1	0	1	1	0
CO304.4	2	0	1	0	0	2	1	0	2	1	0	2	1	0
CO AVG	2	0	1	0	0	2.25	1.25	0	2.5	1.25	0	1.25	1	0

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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Rameji Filmcity, Hyderabad - 501 51

Regulation: PCI, (R08) Subject: Pharmacotherapeutics-II Year: III

Faculty: Dr.P.Swathi Patel, Assistant Professor

Course Outcomes

CO303.1 To	understand therapeutic	goals of the drugs	s used in different diseases
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- CO303.2 To check & analyze drug interactions, adverse drug reactions
- CO303.3 To understand dose and frequency of the medications.
- CO303.4 Able to prepare individualized therapeutic plans & suggest lifestyle modifications based on diagnosis

CO-PO Mapping

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CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO303.1	3	0	3	2	2	0	0	2	0	0	1	2	1	1
CO303.2	3	1	2	2	2	0	0	1	0	1	0	3	2	1
CO303.3	3	0	2	2	2	0	0	2	0	0	0	2	0	1
CO303.4	3	0	2	2	2	0	0	1	1	0	0	2	0	2
CO AVG	3	0.25	2.25	2	2	0	0	1.5	0.25	0.25	0.25	2.25	0.75	1.25

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Regulation: PCI, (R08) Subject: Medicinal Chemistry Year: III

Faculty: Dr	. Ravi Nayak, Assistant Professor
Course Out	comes
CO305.1	Understand modern concept of rational drug design.
CO305.2	Learn development of the anti- infective drugs including structure activity relationship, mechanism of action, synthesis, chemical nomenclature, brand names and side effects of important compounds.
CO305.3	Effectively assess and manage ethical aspects of conduct of antineoplastic agents
CO305.4	Understand classification, mechanism of action, structure activity relationship, synthesis, nomenclature and side effects of the drugs acting as Cardiovascular agents, Hypoglycemic agents, Diureties, Steroidal Hormones and Adrenocorticoids etc
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						CO	O-PO Ma	pping						
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO305.1	3	0	2	3	0	0	0	1	2	0	0	1	1	1
CO305.2	3	0	2	3	0	0	0	1	3	0	0	2	1	1
CO305.3	3	0	2	3	0	0	0	1	3	0	0	2	1	2
CO305.4	3	0	3	3	0	0	0	1	3	0	0	2	1	2
CO AVG	3	0	2.25	3	0	0	0	1	2.75	0	0	1.75	1	1.5
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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.

Regulation: PCI, (R08) Subject: Pharmaceutical Analysis Year: III

Faculty: Dr. Sai Keshava Reddy, Assistant Professor

Course Outcomes

- CO302.1 To understand validation of analytical instruments & methods as per ICH/ USP guidelines, concept of quality assurance and quality control techniques.
- CO302.2 To understand principles, instrumentation and application of various chromatographic techniques employed for the analysis of APIs and formulation.
- CO302.3 To understand principle, instrumentation and application of various Electrometric methods
- CO302.4 To Understand principle, instrumentation and application of UV- Vis, Atomic Absorption and Emission Spectroscopy, Flame Photometry, NMR, Massspectroscopy, Flourimetry, Thermal, X ray diffraction techniques.

CO-PO Mapping

								8						
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO302.1	3	0	3	0	0	1	0	0	1	0	0	1	2	0
CO302.2	3	0	2	3	0	2	0	0	2	0	0	1	1	0
CO302.3	3	0	2	3	0	2	0	0	2	0	0	1	1	0
CO302.4	3	0	3	2	0	2	0	0	1	0	0	1	1	0
CO AVG	3	0	2.5	2	0	1.75	0	0	1.5	0	0	1	1.25	0

Faculty



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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.

Regulation:PCI	,(R08)	Sub	ject:Clinical	Toxicology,	Year:	:IV	
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Faculty: P.	Nagaraju, Associate Professor
Course Out	comes
CO406.1	Developing general working knowledge of the principles and practice of clinical toxicology
	Demonstrating an understanding the health implications of toxic exposures and commonly involved chemicals for toxicity
CO406.3	Demonstrating and applying and understanding of general toxicology principles and clinical management practice
CO406.4	Demonstrating and applying an understanding of the history, assessment, and therapy considerations associated with the management of a toxic exposure
CO406.4	Demonstrating and applying an understanding of the history, assessment, and therapy considerations associated with the management of a toxic

CO-PO Mapping PO 11 PSO 1 PSO 2 PSO 3 PO 7 PO 8 PO 9 CO PO 1 PO 2 PO 4 PO 6 PO 10 PO₃ PO₅ CO406.1 CO406.2 -3 CO406.3 CO406.4 CO AVG

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Regulation: PCI (R08) Subject: Pharmacotherapeutics III, Year: IV

Faculty: K. Anusha, Assistant Professor

Course Outcomes

- **CO401.1** Describe the pathophysiology and management of diseases
- CO401.2 Develop the patient case based assessment Skills
- CO401.3 Describe the quality use of medicines issues surrounding the therapeutic agents in the treatment of these diseases

CO401.4 Develop clinical skills in the therapeutic management of these conditions

-	CO-PO Mapping													
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO401.1	3	1	3	2	1	0	1	3	1	3	0	3	1	1
CO401.2	3	1	3	2	1	0	1	3	1	3	0	3	1	1
CO401.3	3	1	3	2	1	0	1	3	1	3	0	3	1	1
CO401.4	3	1	3	2	1	0	1	3	1	3	0	3	1	1
CO AVG	3	1	3	2	1	0	1	3	1	3	0	3	1	1
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Regulation: PCI (R08) Subject: Biopharmaceutics & Pharmacokinetics, Year: IV

Faculty: P. Srilatha, Assistant Professor

Course Outcomes

CO405.1	Broader understanding about the Pharmacokinetics concepts of biopharmaceutics pharmacokinetics.	
	ibidader understanding about the rindinacokineties concepts of biopharmaceuties pharmacokineties	э.

CO405.2 Ability to calculate various pharmacokinetic parameters by using various mathematical models

CO405.3 Ability to design a basic protocol for the conduct of BA/BE study and the interpretation of the BA/BE data

CO405.4 Preparedness to use the concepts of pharmacokinetic principles in the clinical contexts.

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO403.1	3	3	3	3	2	2	3	3	2	2	3	3	3	3
CO403.2	3	3	3	3	3	3	2	3	3	3	3	3	3	2
CO403.3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO403.4	3	3	3	3	2	3	3	3	3	3	3	3	3	3
CO AVG	3	3	3	3	2.5	2.75	2.75	3	2.75	2.75	3	3	3	2.75
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Regulation: PCI, (R08) Subject: Biostatistics & Research Methodology Year: IV

Faculty:Dr. Md. Abdul Azeem, Associate Professor

Course Outcomes

CO404.1	Know the various statistical Methodology methods to solve different types of problems

CO404.2 Operate various statistical software packages

CO404.3 Appreciate the importance of Computer in hospital and Community Pharmacy

CO404.4 Appreciate the statistical technique in solving the pharmaceutical problems

CO-PO Mapping

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CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO404.1	3	1	3	2	1	0	1	3	1	3	0	3	1	1
CO404.2	3	1	3	2	1	0	1	3	1	3	0	3	1	2
CO404.3	3	1	3	2	1	0	1	3	1	3	0	3	1	1
CO404.4	3	1	3	2	1	0	1	3	1	3	0	3	1	2
CO AVG	3	1	3	2	1	0	1	3	1	3	0	3	1	1.5
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Regulation: PCI ,(R08) Subject: Hospital Pharmacy Year :IV

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Faculty: R	Ashok Kui	mar, Assoc	iate Profe	ssor										
Course Out	comes													
CO402.1	To know v	various dru	g distributi	ion method	S									
CO402.2		profession				n hospita	l pharmac	cies						
CO402.3		nbiased dru				-								
CO402.4	Know The					ulations	In Hospita	al Set up.						
							CO-PO M		,			,	, , , , , , , , , , , , , , , , , , , ,	
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO402.1	3	3	3	2	3	0	3	3	3	3	1	2	2	2
CO402.2	3	3	3	2	3	0	3	3	3	3	1	1	3	2
CO402.3	3	3	3	2	3	0	3	3	3	3	11	2	3	3
CO402.4	3	2	2	2	3	0	3	3	3	3	1	3	3	1
CO AVG	3	2.75	2.75	2	3	0	3	3	3	3	1	2	2.75	2
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Regulation: PCI (R08) Subject: Clinical Pharmacy, Year: IV

Faculty: Dr.V. Dharma Sai, Assistant Professor

Course Outcomes

CO403.1	Monitor drug therapy of patient through medication chart review and clinical review
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- CO403.2 Obtain medication history interview and counsel the patients.
- CO403.3 Identify and resolve drug related problems
- CO403.4 Detect, assess and monitor adverse drug reaction.

	CO-PO Mapping													
CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO403.1	3	3	3	3	2	2	3	3	2	2	3	3	3	3
CO403.2	3	3	3	3	3	3	2	3	3	3	3	3	3	2
CO403.3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO403.4	3	3	3	3	2	3	3	3	3	3	3	3	3	3
CO AVG	3	3	3	3	2.5	2.75	2.75	3	2.75	2.75	3	3	3	2.75

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CO-PO/PSO mapping for Pharm D subjects of PCI (R08) regulation

Year	Number of Theory subjects	Number of Practical Subjects	Other Subjects	PG. No.
I	6	6	1	1-67
II	6	3	-1	68-131
III	6	5	•	132 -198
IV	6	4	-	199-263
V	3	1	PROJECT	264 -29
VI		INTERNSHIP		
Total	27	19	01	

CO statements and CO-PO/PSO mapping for each Pharm D subject is listed below:

CO Assessment and Attainment Process:

Direct attainment of COs is determined from the performance of students in Internal Examination (IE) and External Examination (EE). The proportional weightages of IE: EE set in the ratio 30:70 for both university and non-university examinations.

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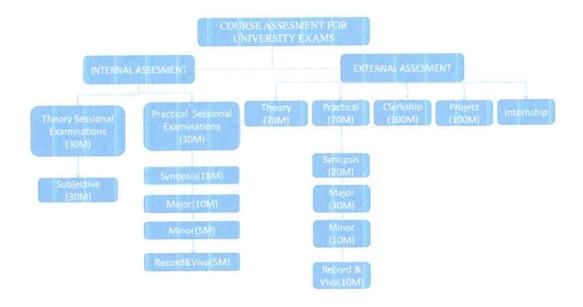








CO Assessment for Pharm D university Examinations



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• For each theory course, they are two internal examinations and the division of COs is listed below.

Theory Course	CO described
Mid Examination - I	CO1
Mid Examination - I	CO2
W.Ir.	CO2
Mid Examination - II	CO3
NO.	CO3
Mid Examination - III	CO4

• For each practical course, they are two internal examinations and the division of COs is listed below.

Practical Course	CO described
ACID 1 2 I	CO1
Mid Examination - I	CO2
MILE '' H	CO2
Mid Examination - II	CO3
ACIT ' C III	CO3
Mid Examination - III	CO4

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- Course assessment process starts with the marks secured by the students from internal and external examination. The CO attainment levels are
 measured based on the results of the average of two internal examinations and End examination conducted by the university or the college.
- The finalized CO-PO articulation matrix was taken and Set Attainment level (Target) for each course. The Target will be fixed by considering the class average marks obtained in End examination of previous batch or analyzing the nature of the course by distinguishing whether it belongs to Analytical / Theory / Problematic course or Targets are approximately given into certain levels.
- If a course is newly introduced in the curriculum, then the Target will be fixed as 70% by the concern faculty handling the course. Each CO is assessed with the tools chosen by the course coordinators. Each tool will represent the scores secured by the individual student and the attainment level for each CO is calculated by measuring the percentage of students scored equal or more than the Target fixed for that course.
- For measuring the attainments of COs of a theory or practical course, the targets for the attainment are fixed as indicated below:

Course	Course Target						
	Theory Internal Examinations						
Subjective (30 M)	70% of maximum marks (22.5 marks out of 30)						
	Practical Internal Examinations						
Lab internal Exam 70 % of maximum marks (22.5 marks out of 30)							
	External Examination						
Both Theory and Lab courses	60% of marks obtained						
Project	75 % of maximum marks						

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• The attainment levels are set as given below

Attainment Level	Theory Subjects	Practical Subjects
Level 1	0-59 % of Students scored the set attainment level	0-59% of Students scored the set attainment level
Level 2	60-79 % of Students scored the set attainment level	60-79 % of Students scored the set attainment level
Level 3	>=80 % of Students scored the set attainment level	>=80 % of Students scored the set attainment level

- As per the regulation PCI, the normalization percentage will be considered for measuring the final attainment of each COs of a course. For theory courses 30% of internal and 70% of External assessment will be calculated. For Laboratory courses 30% of internal and 70% of External assessment will be calculated.
- The CO attainment for the course will be calculated by taking the average of all CO's final attainment value. If the Final Attainment of the Course outcomes are equal to the target, then all the course outcomes are attained else not attained. If a course failed to attain the set attainment target, then action to be taken for continuous improvement will be suggested by the course handling faculty.

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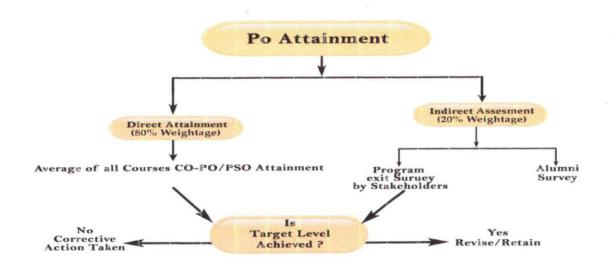






PO/PSO Assessment and Attainment process:

Program outcomes are narrower statements that describe what students are expected to be able to do by the time of graduation. POs are expected to be aligned closely with Graduate Attributes. Programme Specific Outcomes are what the students should be able to do at the time of graduation with reference to a specific discipline.



PO/PSO Assessment and Attainment process

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Direct Method:

Once the overall attainment percentage of each COs is calculated, the PO and PSO attainment is calculated by taking the cumulative average of all the course's CO attainment which contributes to the specific Program Outcomes and Program Specific Outcomes. The overall CO attainment values are calculated for all the direct assessment tools. For theory and practical courses,

Overall CO attainment = 0.30*Internal Exams attainments + 0.70*External Exams attainments

Indirect Method:

Indirect methods such as surveys and interviews ask the stakeholders to reflect on student learning. They assess opinions or thoughts about the graduate's knowledge or skills and their valued contributions to different stakeholders. An indirect assessment is used to measure certain implicit qualities of student learning, such as values, perceptions, and attitudes from a variety of perspectives. The stakeholders include students, alumni, faculty, employers, and parents.

Indirect PO Attainment = 10% of Alumni Feedback + 10% Employer Feedback

Overall Attainment of PO

Overall PO attainment= 80% of Direct PO Attainment + 20% of Indirect PO Attainment

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