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## **SANTHIRAM COLLEGE OF PHARMACY**

Approved by AICTE & PCI, New Delhi – Affiliated to JNTUA, Anantapuramu  
NH – 40, Nandyal, Kurnool District, Andhra Pradesh – 518501

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### **2.6.2**

**Attainment of Programme outcomes and course  
outcomes are evaluated by the institution  
AY: 2023-24**




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2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution

CO-PO Mapping for B.Pharmacy										
Course Code	Course Name	Cos/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
23BP101T	Human Anatomy and Physiology I	CO1	3	2		3		2	1	1
		CO2	1		1	2	3		3	3
		CO3	3		2	2	2		1	
		CO4	3			2	2		1	
23BP102T	Pharmaceutical Analysis I	CO1	3		3		2		2	1
		CO2			3		1	1	2	2
		CO3	2	1	2		3	3	1	
		CO4	1		3		3	1	1	
23BP103T	Pharmaceutics I	CO1	3		2	1	2	1	1	1
		CO2	2	1	2	1	2	2	1	1
		CO3	2	1	1	1	3	3	3	3
		CO4	2	2	2	1	1	1	2	1
23BP104T	Pharmaceutical Inorganic Chemistry	CO1	2	2	3	2	1	2		
		CO2	2		2		2			
		CO3	3	2	2	2				
		CO4	2	2		2	3	1		
23BP105T	Communication skills	CO1	3		3		2		2	1
		CO2			3		1	1	2	2
		CO3	2	1	2		3	3	1	
		CO4	1		3		3	1	1	
23BP106RMT	Remedial Mathematics	CO1	3	2		3		2	1	1
		CO2	1		1	2	3		3	3
		CO3	3		2	2	2		1	
		CO4	3			2	2		1	
BP201T	Human Anatomy and Physiology II	CO1	3		1	1	1		2	
		CO2	1			1	2	1	1	
		CO3	3		3	3	3		2	2
		CO4	3	3	1	2	2			
BP202T	Pharmaceutical Organic Chemistry I	CO1	3	2	2	1	1		1	
		CO2	2	3		3	2		1	
		CO3	3	2	3	2		1		1
		CO4	3	2	1	1	1			1
BP203T	Biochemistry	CO1	3		1	2			1	
		CO2	3	1	1	2			1	
		CO3	3		2	3	1		1	
		CO4	3		2	3	1		1	
BP204T	Pathophysiology	CO1	3			2	3		1	1
		CO2	3		1	2		1	1	
		CO3	3		1	2		1		1
		CO4	3	2	3	2		2		

  
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BP205T	Computer Applications in Pharmacy	CO1	1			1	2	1	1	
		CO2	3		3	3	3		2	2
		CO3	3	3	1	2	2			
		CO4	3	2	2	1	1		1	
BP206T	Environmental sciences	CO1	2	3		3	2		1	
		CO2	3	1	1	2			1	
		CO3	3		2	3	1		1	
		CO4	3		2	3	1		1	
BP301T	Pharmaceutical Organic Chemistry II	CO1	1			1	2	1	1	
		CO2	3		3	3	3		2	2
		CO3	3	3	1	2	2			
		CO4	3	2	2	1	1		1	
BP302T	Physical Pharmaceutics I	CO1	3	3	1	2	2			
		CO2	3	2	2	1	1		1	
		CO3	2	3		3	2		1	
		CO4	3	2	3	2		1		1
BP303T	Pharmaceutical Microbiology	CO1	3	2	1	1	1			1
		CO2	3		1	2			1	
		CO3	3	1	1	2			1	
		CO4	3		2	3	1		1	
BP304T	Pharmaceutical Engineering	CO1	3		2	3	1		1	
		CO2	3			2	3		1	1
		CO3	3		1	2		1	1	
		CO4	3		1	2		1		1
BP401T	Pharmaceutical Organic Chemistry III	CO1	2	3		3	2		1	
		CO2	3	2	3	2		1		1
		CO3	3	2	1	1	1			1
		CO4	3		1	2			1	
BP402T	Medicinal Chemistry I	CO1	3		2	3	1		1	
		CO2	1			1	2	1	1	
		CO3	3		3	3	3		2	2
		CO4	3	3	1	2	2			
BP403T	Physical Pharmaceutics II	CO1	1			1	2	1	1	
		CO2	3		3	3	3		2	2
		CO3	3	3	1	2	2			
		CO4	3	2	2	1	1		1	
BP404T	Pharmacology I	CO1	3		3		2		2	1
		CO2			3		1	1	2	2
		CO3	2	1	2		3	3	1	
		CO4	1		3		3	1	1	
BP405T	Pharmacognosy and Phytochemistry I	CO1	3		2	1	2	1	1	1
		CO2	2	1	2	1	2	2	1	1
		CO3	2	1	1	1	3	3	3	3
		CO4	2	2	2	1	1	1	2	1

  
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BP501T	Medicinal Chemistry II	CO1	2	2	3	2	1	2		
		CO2	2		2		2			
		CO3	3	2	2	2				
		CO4	2	2		2	3	1		
BP502T	Industrial Pharmacy I	CO1	3		2	1	2	1	1	1
		CO2	2	1	2	1	2	2	1	1
		CO3	2	1	1	1	3	3	3	3
		CO4	2	2	2	1	1	1	2	1
BP503T	Pharmacology II	CO1	2	2	3	2	1	2		
		CO2	2		2		2			
		CO3	2	1	2	1	2	2	1	1
		CO4	2	1	1	1	3	3	3	3
BP504T	Pharmacognosy and Phytochemistry II	CO1	2	2	2	1	1	1	2	1
		CO2	2	2	3	2	1	2		
		CO3	2		2		2			
		CO4	3	2	2	2				
BP505T	Pharmaceutical Jurisprudence	CO1	3		3		2		2	1
		CO2			3		1	1	2	2
		CO3	2	1	2		3	3	1	
		CO4	1		3		3	1	1	
BP601T	Medicinal Chemistry III	CO1	3		2	1	2	1	1	1
		CO2	2	1	2	1	2	2	1	1
		CO3	2	1	1	1	3	3	3	3
		CO4	2	2	2	1	1	1	2	1
BP602T	Pharmacology III	CO1	2	2	3	2	1	2		
		CO2	2		2		2			
		CO3	3	2	2	2				
		CO4	2	2		2	3	1		
BP603T	Herbal Drug Technology	CO1		1		1	2		2	
		CO2	1		2		2		1	
		CO3	3		3		3	1		
		CO4	3	2	1	1			1	
BP604T	Biopharmaceutics and Pharmacokinetics	CO1	2		2		2			1
		CO2	3	3	3		2			1
		CO3	1		3	3	2		2	
		CO4		2		2				3
BP605T	Pharmaceutical Biotechnology	CO1	3	2	1	1			1	
		CO2	2		2		2			1
		CO3	3	3	3		2			1
		CO4	1		3	3	2		2	
BP606T	Quality Assurance	CO1		2		2				3
		CO2	3	3	3			2		1
		CO3	2		2			2	1	1
		CO4	1		2		2		1	

  
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BP701T	Instrumental Methods of Analysis	CO1	3		3		3	1		
		CO2	3	2	1	1			1	
		CO3	2	2	2	1	1	1	2	1
		CO4	2	2	3	2	1	2		
BP702T	Industrial Pharmacy II	CO1	3	2	2	2				
		CO2	2	2		2	3	1		
		CO3		1		1	2		2	
		CO4	1		2		2		1	
BP703T	Pharmacy Practice	CO1	3		3		3	1		
		CO2	3	2	1	1			1	
		CO3	2		2		2			1
		CO4	3	3	3		2			1
BP404T	Novel Drug Delivery System	CO1	1		3	3	2		2	
		CO2		2		2				3
		CO3	3	3	3			2		1
		CO4	2		2			2	1	1

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CO-PO Mapping for Pharm.D										
Course Code	Course Name	Cos/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
17T00101	Human Anatomy and Physiology	CO1	2	2	3	2	1	2		
		CO2	2		2		2			
		CO3	3	2	2	2				
		CO4	2	2		2	3	1		
17T00102	Pharmaceutics	CO1		1		1	2		2	
		CO2	1		2		2		1	
		CO3	3		3		3	1		
		CO4	3	2	1	1			1	
17T00103	Medicinal Biochemistry	CO1	2		2		2			1
		CO2	3	3	3		2			1
		CO3	1		3	3	2		2	
		CO4		2		2				
17T00104	Pharmaceutical Organic Chemistry	CO1	3	2	1	1			1	
		CO2	2		2		2			1
		CO3	3	3	3		2			1
		CO4	1		3	3	2		2	
17T00105	Pharmaceutical Inorganic Chemistry	CO1		2		2				3
		CO2	3	3	3			2		1
		CO3	2		2			2	1	1
		CO4	1		2		2		1	
17T00106	Remedial Mathematics	CO1	3		3		3	1		
		CO2	3	2	1	1			1	
		CO3	2	2	2	1	1	1	2	1
		CO4	2	2	3	2	1	2		
17T00201	Pathophysiology	CO1	3	2	2	2				
		CO2	2	2		2	3	1		
		CO3		1		1	2		2	
		CO4	1		2		2		1	
17T00202	Pharmaceutical Microbiology	CO1	3		3		3	1		
		CO2	3	2	1	1			1	
		CO3	2		2		2			1
		CO4	3	3	3		2			1

  
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17T00203	Pharmacognosy & Phytopharmaceuticals	CO1	1		3	3	2		2		
		CO2		2		2					3
		CO3	3	3	3				2		1
		CO4	2		2				2	1	1
17T00204	Pharmacology-I	CO1	3	3	1	2	2				
		CO2	3	2	2	1	1			1	
		CO3	2	3		3	2			1	
		CO4	3	2	3	2			1		1
17T00205	Community Pharmacy	CO1	3	2	1	1	1				1
		CO2	3		1	2				1	
		CO3	3	1	1	2				1	
		CO4	3		2	3	1			1	
17T00206	Pharmacotherapeutics-I	CO1	3		2	3	1			1	
		CO2	3			2	3			1	1
		CO3	3		1	2			1	1	
		CO4	3		1	2			1		1
17T00301	Pharmacology-II	CO1	2	3		3	2			1	
		CO2	3	2	3	2			1		1
		CO3	3	2	1	1	1				1
		CO4	3		1	2				1	
17T00302	Pharmaceutical Analysis	CO1	3		2	3	1			1	
		CO2	1			1	2	1	1		
		CO3	3		3	3	3			2	2
		CO4	3	3	1	2	2				
17T00303	Pharmacotherapeutics-II	CO1	1			1	2	1	1		
		CO2	3		3	3	3			2	2
		CO3	3	3	1	2	2				
		CO4	3	2	2	1	1			1	
17T00304	Pharmaceutical Jurisprudence	CO1	3	2	3	2			2		
		CO2	1			1	2	1	1		
		CO3	3		3	3	3			2	2
		CO4	3	3	1	2	2				
17T00305	Medicinal Chemistry	CO1	3	2	2	1	1			1	
		CO2	2	3		3	2			1	
		CO3	3	1	1	2				1	
		CO4	3		2	3	1			1	

  
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17T00306	Pharmaceutical Formulations	CO1	3		2	3	1		1	
		CO2	3		1	2			1	
		CO3	3	1	1	2			1	
		CO4	3		2	3	1		1	
17T00401	Pharmacotherapeutics-III	CO1	3		2	3	1		1	
		CO2	3			2	3		1	1
		CO3	3		1	2			1	1
		CO4	3		1	2			1	1
17T00402	Hospital Pharmacy	CO1	2	3		3	2		1	
		CO2	3	2	3	2			1	1
		CO3	1		3		3	1	1	
		CO4	3		2	1	2	1	1	1
17T00403	Clinical Pharmacy	CO1	2	1	2	1	2	2	1	1
		CO2	2	1	1	1	3	3	3	3
		CO3	2	2	2	1	1	1	2	1
		CO4	2	2	3	2	1	2		
17T00404	Biostatistics & Research Methodology	CO1	2		2		2			
		CO2	3	2	2	2				
		CO3	2	2		2	3	1		
		CO4	3		2	1	2	1	1	1
17T00405	Biopharmaceutics & Pharmacokinetics	CO1	2	1	2	1	2	2	1	1
		CO2	2	1	1	1	3	3	3	3
		CO3	2	2	2	1	1	1	2	1
		CO4	2	2	3	2	1	2		
17T00406	Clinical Toxicology	CO1	2	2	3	2	1	2		
		CO2	2		2		2			
		CO3	3	2	2	2				
		CO4	3		3		2		2	1
17T00501	Clinical Research	CO1			3		1	1	2	2
		CO2	2	1	2		3	3	1	
		CO3	1		3		3	1	1	
		CO4	3		2	1	2	1	1	1
17T00502	Pharmacoepidemiology and Pharmacoeconomics	CO1	3			2	3		1	1
		CO2	3		1	2			1	1
		CO3	3		1	2			1	1
		CO4	2	1	2	1	2	2	1	1
17T00503	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	CO1	2	1	1	1	3	3	3	3
		CO2	2	2	2	1	1	1	2	1
		CO3	3		3		2		2	1
		CO4			3		1	1	2	2

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CO-PO Mapping for M.Pharmacy										
Course Code	Course Name	Cos/Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
<b>Pharmaceutics</b>										
21S01101	Modern Pharmaceutical Analytical Techniques	CO1	3	2	1	1			1	
		CO2	2		2		2			1
		CO3	3	3	3		2			1
		CO4	1		3	3	2		2	
21S03101	Advanced Physical Pharmaceutics	CO1		2		2				3
		CO2	3	3	3			2		1
		CO3	2		2			2	1	1
		CO4	1		2		2		1	
21S03102	Modern Pharmaceutics-I	CO1	3		3		3	1		
		CO2	3	2	1	1			1	
		CO3	2	2	2	1	1	1	2	1
		CO4	2	2	3	2	1	2		
21S03103	Advanced Biopharmaceutics & Pharmacokinetics	CO1	1		3	3	2		2	
		CO2		2		2				3
		CO3	3	3	3			2		1
		CO4	2		2			2	1	1
21S03201	Modern Pharmaceutics-II	CO1	3	3	1	2	2			
		CO2	3	2	2	1	1		1	
		CO3	2	3		3	2		1	
		CO4	3	2	3	2		1		1
21S03202	Advanced Drug Delivery system	CO1	2	2	3	2	1	2		
		CO2	2		2		2			
		CO3	3	2	2	2				
		CO4	2	2		2	3	1		
21S03203	Industrial Pharmacy	CO1		1		1	2		2	
		CO2	1		2		2		1	
		CO3	3		3		3	1		
		CO4	3	2	1	1			1	
21S03204	Nano Drug Delivery system	CO1	2		2		2			1
		CO2	3	3	3		2			1
		CO3	1		3	3	2		2	
		CO4		2		2				3
21DRM101	Research Methodology and Intellectual Property Right	CO1	3	2	1	1	1			1
		CO2	3		1	2			1	
		CO3	3	1	1	2			1	
		CO4	3		2	3	1		1	
21SOE301d	Biological Screening methods	CO1	3		2	3	1		1	
		CO2	3			2	3		1	1
		CO3	3		1	2		1	1	
		CO4	3		1	2		1		1

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Pharmaceutical Analysis										
21S01101	Modern Pharmaceutical Analytical Techniques	CO1	3	2	1	1			1	
		CO2	2		2		2			1
		CO3	3	3	3		2			1
		CO4	1		3	3	2		2	
21S07101	Advanced Pharmaceutical Analysis	CO1	3	2	1	1	1			1
		CO2	3		1	2			1	
		CO3	3		2	3	1		1	
		CO4	1			1	2	1	1	
21S07102	Pharmaceutical and Food Analysis	CO1	3		3	3	3		2	2
		CO2	3	3	1	2	2			
		CO3	3	2	1	1	1			1
		CO4	3		1	2			1	
21S07103	Quality Control And Quality Assurance	CO1	3		2	3	1		1	
		CO2	1			1	2	1	1	
		CO3	3		3	3	3		2	2
		CO4	3	3	1	2	2			
21S07201	Advanced Instrumental Analysis	CO1	1			1	2	1	1	
		CO2	3		3	3	3		2	2
		CO3	3	3	1	2	2			
		CO4	3	2	2	1	1		1	
21S07202	Modern Bio-Analytical Techniques	CO1	3	2	3	2		2		
		CO2	1			1	2	1	1	
		CO3	3		3	3	3		2	2
		CO4	3	3	1	2	2			
21SOE301a	Pharmaceutical Validation	CO1	3	2	2	1	1		1	
		CO2	2	3		3	2		1	
		CO3	3	1	1	2			1	
		CO4	3		2	3	1		1	
21S07203	Herbal and Cosmetic Analysis	CO1	3		2	3	1		1	
		CO2	3		1	2			1	
		CO3	3	1	1	2			1	
		CO4	3		2	3	1		1	
21DRM101	Research Methodology and Intellectual Property Right	CO1	3		2	3	1		1	
		CO2	3			2	3		1	1
		CO3	3		1	2		1	1	
		CO4	3		1	2		1		1
21SOE301d	Biological Screening methods	CO1	2	3		3	2		1	
		CO2	3	2	3	2		1		1
		CO3	1		3		3	1	1	
		CO4	3		2	1	2	1	1	1

  
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Industrial Pharmacy										
21S01101	Modern Pharmaceutical Analytical Techniques	CO1	1		2		2		1	
		CO2	2	3		3	2		1	
		CO3	3	2	3	2		1		1
		CO4	3	2	1	1	1			1
21S03101	Advanced Physical Pharmaceutics	CO1	2	3		3	2		1	
		CO2	3	2	3	2		1		1
		CO3	3	2	1	1	1			1
		CO4	3	2	1	1	1			1
21S08101	Pharmaceutical formulation Development	CO1	3		1	2			1	
		CO2	1		3	3	2		2	
		CO3		2		2				3
		CO4	3	3	3			2		1
21S03103	Advanced Biopharmaceutics & Pharmacokinetics	CO1	2		2			2	1	1
		CO2		2		2				3
		CO3	3	3	3			2		1
		CO4	2		2			2	1	1
21S08201	Pharmaceutical Production Technology	CO1	1			1	2	1	1	
		CO2	3		3	3	3		2	2
		CO3	3	3	1	2	2			
		CO4	3	2	2	1	1		1	
21S03202	Advanced Drug Delivery system	CO1	2	2	3	2	1	2		
		CO2	2		2		2			
		CO3	3	2	2	2				
		CO4	2	2		2	3	1		
21S08203	Pharmaceutical Industrial Management	CO1	2		2		2			1
		CO2	3	3	3		2			1
		CO3	1		3	3	2		2	
		CO4		2		2				3
21S03204	Nano Drug Delivery system	CO1	3		2	3	1		1	
		CO2	3		1	2			1	
		CO3	3	1	1	2			1	
		CO4	3		2	3	1		1	
21DRM101	Research Methodology and Intellectual Property Right	CO1	3		2	3	1		1	
		CO2	3			2	3		1	1
		CO3	3		1	2		1	1	
		CO4	3		1	2		1		1
21SOE301d	Biological Screening methods	CO1	2	3		3	2		1	
		CO2	3	2	3	2		1		1
		CO3	1		3		3	1	1	
		CO4	3		2	1	2	1	1	1

  
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Pharmacology										
21S01101	Modern Pharmaceutical Analytical Techniques	CO1	3	2	1	1	1			1
		CO2	3	2	1	1	1			1
		CO3	3		1	2			1	
		CO4	1		3	3	2		2	
21S01102	Advanced Pharmacology-I	CO1		2		2				3
		CO2	3	3	3			2		1
		CO3	2		2			2	1	1
		CO4		2		2				3
21S01103	Clinical Pharmacology and Pharmacotherapeutics	CO1	3		1	2			1	
		CO2	1		3	3	2		2	
		CO3	2		2		2			
		CO4	3	2	2	2				
21S01104	Cellular and Molecular Pharmacology	CO1	2	2		2	3	1		
		CO2	2		2		2			1
		CO3	3	3	3		2			1
		CO4	1		3	3	2		2	
21S01201	Advanced Pharmacology- II	CO1		2		2				3
		CO2	3		2	3	1		1	
		CO3	3		1	2			1	
		CO4	3	1	1	2			1	
21S01202	Pharmacological Screening Methods & Toxicology	CO1	3		2	3	1		1	
		CO2	3		2	3	1		1	
		CO3	3			2	3		1	1
		CO4	3		1	2		1	1	
21S01203	Principles of Drug Discovery	CO1	3	2	1	1	1			1
		CO2	3		1	2			1	
		CO3	3		2	3	1		1	
		CO4	1			1	2	1	1	
21S01204	Clinical research and Pharmacovigilance	CO1	3		3	3	3		2	2
		CO2	3	3	1	2	2			
		CO3	3	2	1	1	1			1
		CO4	3		1	2			1	
21DRM101	Research Methodology and Intellectual Property Right	CO1	3		2	3	1		1	
		CO2	1			1	2	1	1	
		CO3	3		3	3	3		2	2
		CO4	3	3	1	2	2			
21SOE301a	Pharmaceutical Validation	CO1	2	3		3	2		1	
		CO2	3	2	3	2		1		1
		CO3	1		3		3	1	1	
		CO4	3		2	1	2	1	1	1

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