



CourseName: HUMAN ANATOMY  
AND PHYSIOLOGY YearofStudy:I-I;

SL No	PROGRAMMEOUTCOMES-B. PHARM
PO 1	<b>Pharmacy Knowledge:</b> Have sound knowledge of fundamental principles and their applications in the area of Pharmaceutical Sciences and Technology.
PO 2	<b>Practical Skill:</b> Develop an ability to use lab equipment and different kinds of simulation software with an in depth knowledge to design synthetic and analytical processes to perform experiments on synthesis, design, pharmaceutical analysis, pharmacological evaluation and formulation problems.
PO3	<b>Professional Identity:</b> Develop ability for in-depth analytical and critical thinking in order to identify, formulate and solve the issues related to Pharmaceutical Industry, Regulatory Agencies, and Hospital Pharmacy & Community Pharmacy.
PO4	<b>Problem Solving:</b> Develop an ability to solve, analyze and interpret data generated from Formulation Development, Quality Control & Quality Assurance.
PO5	<b>Communication:</b> Develop written and oral communication skills in order to communicate effectively the outcomes of the Pharmaceutical problems.
PO6	<b>Planning Ability:</b> Have an ability to acquire sound knowledge in order to execute the responsibilities successfully towards developing expertise as per the needs of industry and academia.
PO7	<b>Leadership Skills &amp; Team Work :</b> Develop team spirit, apart from responding to the social needs and professional ethics
PO8	<b>Life Long Learning:</b> Develop an aptitude for lifelong learning and continuous professional development.
PO9	<b>The Pharmacist &amp; Society:</b> Develop an understanding for the need of pharmaceutical sciences and technology towards giving quality life to people in society.
PO10	<b>Environment &amp; Sustainability:</b> Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

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Avanathi's Institute of Pharmaceutical Sciences  
Gunthapally (V), Hayath Nagar (M),  
Ranga Reddy Dist.

Academic year: 2020-21

Upon Completion of the course student will be able to:

HAP.CO1	Explain the gross morphology structures and function of various organs of human body
HAP.CO2	Describe the various homeostatic mechanisms and their imbalances.
HAP.CO3	Identify the various tissues and organs of different systems of human body.
HAP.CO4	Perform the various experiments related to special senses and nervous system.
HAP.CO5	Appreciate coordinated working pattern of different organs of each system

CO-PO matrices of courses selected (six matrices to be mentioned; one per semester from (1<sup>st</sup> semester)

I-I HUMAN ANATOMY AND PHYSIOLOGY

COURSE OUTCOME	PROGRAMME OUTCOME									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
HAP.CO1	2	2	1	1	2	3	2	3	2	1
HAP.CO2				3			2			
HAP.CO3	3			2						
HAP.CO4			3							
HAP.CO5	2	3								
CO attainment	3	3	3	3	0		2			

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II-I

## MEDICINAL BIO BCHEMISTRY

COURSEOUTC OME	PROGRAMMEOUTCOME									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
MBC.CO1	3	2	1	2	--	2	--	3	1	1
MBC.CO2	3	2	--	--	--	1	--	--	1	1
MBC.CO3	3	2	--	1	--	--	--	--	1	1
MBC.CO4	3	1	--	1	--	1	--	--	2	1
CO attainment	3	2	1	1	--	2	--	3	1	1

## III-II MEDICINAL CHEMISTRY

COURSEOUTC OME	PROGRAMMEOUTCOME									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
MC.CO1	3	2	1	1	--	--	--	--	--	1
MC.CO2	3	2	2	2	--	2	--	--	--	1
MC.CO3	3	2	1	3	3	1	2	2	3	1
CO attainment	3	2	1	2	3	2	2	2	3	1

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### IV-I PHARMACOLOGY

COURSE OUTCOME	PROGRAMME OUTCOME									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
PCCL.CO1	3	2	2	3	--	2	--	2	2	--
PCOL.CO2	3	2	2	3	--	2	--	2	2	--
CO attainment	3	2	2	3	0	2	0	2	2	0

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CourseName:PHARMACOTHERAPEU  
TICS-I;

SL No	PROGRAMME OUTCOMES-PHARMD
PO 1	<b>Pharmacy Knowledge:</b> Have sound knowledge of fundamental principles and their applications in the area of Pharmaceutical Sciences and Technology.
PO 2	<b>Practical Skill:</b> Develop an ability to use lab equipment and different kinds of simulation software with an in depth knowledge to design synthetic and analytical processes to perform experiments on synthesis, design, pharmaceutical analysis, pharmacological evaluation and formulation problems.
PO 3	<b>Professional Identity:</b> Develop ability for in-depth analytical and critical thinking in order to identify, formulate and solve the issues related to Pharmaceutical Industry, Regulatory Agencies, and Hospital Pharmacy & Community Pharmacy.
PO 4	<b>Problem Solving:</b> Develop an ability to solve, analyze and interpret data generated from Formulation Development, Quality Control & Quality Assurance.
PO 5	<b>Communication:</b> Develop written and oral communication skills in order to communicate effectively the outcomes of the Pharmaceutical problems.
PO 5	<b>Planning Ability:</b> Have an ability to acquire sound knowledge in order to execute the responsibilities successfully towards developing expertise as per the needs of industry and academia.
PO 7	<b>Leadership Skills &amp; Team Work :</b> Develop team spirit, apart from responding to the social needs and professional ethics
PO 7	<b>Life Long Learning:</b> Develop an aptitude for lifelong learning and continuous professional development.
PO 7	<b>The Pharmacist &amp; Society:</b> Develop an understanding for the need of pharmaceutical sciences and technology towards giving quality life to people in society.
PO 3	<b>Environment &amp; Sustainability:</b> Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

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**Academic year: 2020-21**

Upon Completion of the course student will be able to:

PT-1.CO1	Students will be able to describe the pathophysiology and management of cardiovascular, respiratory and endocrine diseases.
PT-1.CO2	Students will be developing patient case based assessment skills.
PT-1.CO3	Students will be able to describe the quality use of medicines issues surrounding the therapeutic agents in the treatment of these diseases.
PT-1.CO4	Students will have developed clinical skills in the therapeutic management of these conditions.

**CO-PO matrices of courses selected (six matrices to be mentioned);**

**II- PHARMACOTHERAPEUTICS-II**

COURSE OUTCOME	PROGRAMME OUTCOME									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
PT-I.CO1	3	2	1	1	2	3	2	3	2	1
PT-I.CO2				3			2			
PT-I.CO3	3			2						
PT-I.CO4			3							
PT-I.CO5	2	3								
CO attainment	3	3	3	3	0		2			

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