



SRI INDU INSTITUTE OF PHARMACY

Sponsored by New Loyola Model Educational Society, Vanasthalipuram, Hyderabad.
(Approved by PCI – New Delhi, Affiliated to JNTUH- Hyderabad.)
Sheriguda, Ibrahimpatnam, R.R. Dist -501 510, Hyderabad, Telangana State.
Phone : 9391537555 Website : www.siip.ac.in Email ID : siipoffice@siip.ac.in

6.5.2. Teaching Learning Process

Sri Indu Institute of Pharmacy (SIIP) has strategic teaching learning process and has systematic methodology for progressing the activities. In an Academic calendar year, The Internal Quality Assurance Cell (IQAC) meets twice to review the Teaching and Learning Process. Institutional IQAC is responsible for developing, coordinating and monitoring academic activities and their assessment to the effect of improvement in faculty teaching and student learning. Academic Director, HOD's and senior faculty members of the Institute gathers often for the meeting chaired by the head of the Institution.

The Internal Quality Assurance Cell guides accordingly to initiate the professional activities by involving various departments and carries out internal audit for every department in each academic year. Institutional Academic Plan is confirmed well in advance before the semester commencement for all the courses. Institute has an effective internal communication system through physical circulars as well as through social media groups.

Outcomes:

IQAC intermittently assures the accomplishment of program outcomes of every course and program through...

i) Course Files:

A Course file is professional systematic compilation of each and every aspect pertaining to subject academic proceedings. As per the syllabus course file includes the details of topic completion, internal marks documentation and all other mandate aspects of the course. A detailed plan for every topic covered and the mapping of the exam questions with the course outcome is documented.



SRI INDU INSTITUTE OF PHARMACY

Sponsored by New Loyola Model Educational Society, Vanasthalipuram, Hyderabad.
(Approved by PCI – New Delhi, Affiliated to JNTUH- Hyderabad.)
Sheriguda, Ibrahimpatnam, R.R. Dist -501 510, Hyderabad, Telangana State.
Phone : 9391537555 Website : www.siip.ac.in Email ID : siipoffice@siip.ac.in

ii) Evaluation-System

A typical evaluation system with regard to IQAC reforms is given by Input Based Information to Outcome Based Education (OBE) with direct procedures i.e., teaching-learning process and Indirect procedures i.e., Mid exams, lab internal, external and End semester (University examinations) exams using various assessment tools.

Evaluation procedure for Outcome Based Education: The procedure of evaluation for OBE is as follows:

1. Internal (Mid) Examinations: Two Internal (Mid) Examinations are conducted for B.Pharm and M.Pharm students in each semester and Three Internal (Mid) Examinations are conducted for Pharm.D & Pharm.D(PB) students as per the university norms. The Mid- exam questions are mapped to the respective COs.

2. Internal Lab Examinations: Internal Lab Examination includes evaluation of laboratory skills through answering synopsis, performance of Major and Minor experiment followed by viva-voce by institute faculty.

3. External Lab Examinations: External Lab Examination includes evaluation of laboratory skills through answering synopsis, performance of Major and Minor experiment followed by viva-voce by external faculty deputed by the University.

4. End semester university examinations: Question paper for every course is provided by the affiliating university online. University Examination Branch will be declaring the results online within 2 months after conduction of external exams. The marks scored by the students are subjected to assess the attainment level of the respective courses.

Institutional IQAC under the headship of its coordinator conducts periodical meetings with the Principal and HOD's and also with various institutional committees in an academic year. An academic review will be on all departments by collecting information on various academic

1. VISION OF THE INSTITUTE:

- To inculcate excellence in various fields of Pharmacy and mold the Institution as Center of Excellence in terms of Academics and Advanced Pharmaceutical Research.
- To evolve into a center of excellence in Science and Technology through creative and innovative practices in teaching, learning, promoting academic achievement & research excellence to produce internationally accepted, competitive and world class professionals, who are psychologically strong and emotionally balanced imbued with social consciousness and ethical values.

MISSION OF THE INSTITUTE

- Committed to impart quality Pharmacy Education and Research for Students to be competent globally.
- To provide high quality academic programs, training activities, research facilities and opportunities supported by incessant “Industry – Institute” interaction which is aimed at promoting Employability, Entrepreneurship, Leadership and Research aptitude among students that can contribute to the economic and technological development of the region, state and the nation.

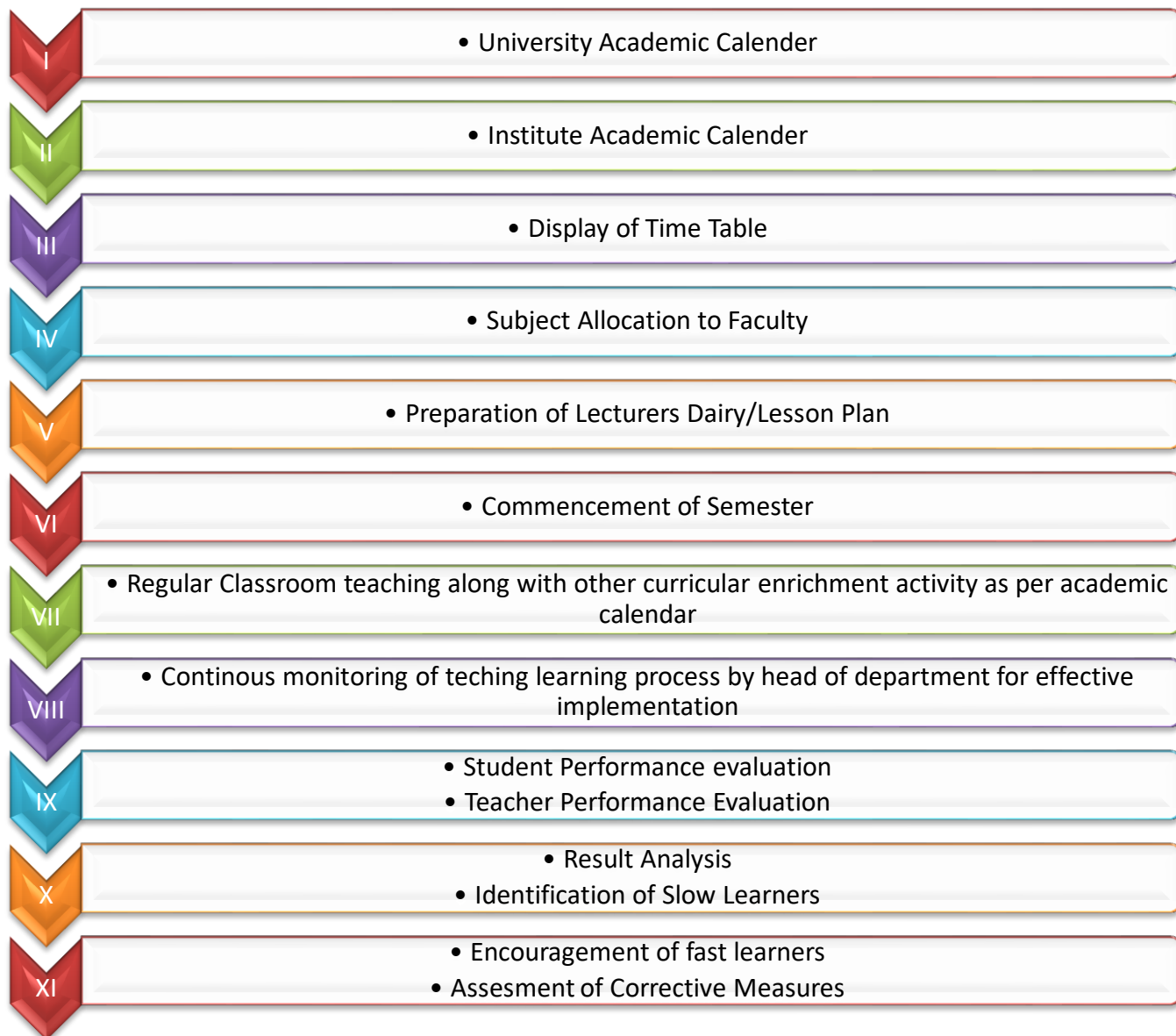


SRI INDU INSTITUTE OF PHARMACY

Sponsored by New Loyola Model Educational Society, Vanasthalipuram, Hyderabad.
(Approved by PCI – New Delhi, Affiliated to JNTUH- Hyderabad.)
Sheriguda, Ibrahimpatnam, R.R. Dist -501 510, Hyderabad, Telangana State.
Phone : 9391537555 Website : www.siip.ac.in Email ID : siipoffice@siip.ac.in

activities, completion of course syllabus, students assignments, class seminars, and other professional activities.

Teaching Learning Flow Chart Structure





SRI INDU INSTITUTE OF PHARMACY

Sponsored by New Loyola Model Educational Society, Vanasthalipuram, Hyderabad.
 (Approved by PCI - New Delhi, Affiliated to JNTUH- Hyderabad.
 Sheriguda, Ibrahimpatnam, R.R. Dist -501 510, Hyderabad, Telangana State.
 Phone : 9391537555 Website : www.siip.ac.in Email ID : siipoffice@siip.ac.in

Faculty Name:	Mrs. P.Deepika		
Designation:	Assistant professor		
Batch:	2017-2021		
Academic Year:	2017-18		
Semester/Year:	I-II		
Course Name:	Human Anatomy and Physiology-II		
Course Code/Regl:	R17		
S. No	Course File Contents	Check List (Yes/No)	Remarks
1	Vision & Mission of The Institute	Yes	
2	Program Educational Objectives And Program Outcomes	Yes	
3	JNTUH Academic Calendar And List Of Holidays	Yes	
4	Syllabus Copy Including Text Books And Reference Books	Yes	
5	Personal Time Table	Yes	
6	Calendar of Events	Yes	
7	Lesson Plan with methodology being used/adopted	Yes	
8	Subject Notes	Yes	
9	Student Name List	Yes	
10	Attendance Report	Yes	
11	Content Beyond Syllabus and mapping with POs	NA	
12	I, II & III Internal Marks (Theory and Lab)	Yes	
13	CO Attainment Report	Yes	
14	Action Taken Report	NA	
15	JNTUH old Question Paper/Question Bank	Yes	
16	Internal Test Question Papers (I, II & III Internal Question Papers/Sub/Obj/Key)	Yes	
17	Assignment Questions	Yes	
18	Scheme of Evaluation	Yes	
19	Identification of Bright Students	Yes	
20	Identification of Weak Students	Yes	
21	Remedial Classes Time Table	Yes	
22	Result Analysis	Yes	

Course Teacher

HOD

Program Coordinator

PRINCIPAL

2. PROGRAM EDUCATIONAL OBJECTIVES (PEOS):

PEO'S	
PEO1	Pedagogy: Graduates will have profound knowledge and insight of various pharmaceutical sciences and high technical skills to cater various areas of pharmaceutical industry
PSO2	Proficiency: By exposing the students to various curricular courses like Pharmaceutics, Pharmacology, Pharmacognosy, Pharmaceutical chemistry, enabling them to fulfil the requirements of Pharmaceutical Industries, Community and Hospital Pharmacy and also to pursue higher studies.
PSO3	Expertise: To act as bridge between health care system and the society to serve at large by dissemination of professional value with a sense of social responsibility
PSO4	Vigilance: To motivate the students to procure their abilities as honorable post graduates and to succeed in pharmaceutical field.
PSO5	Appraisal: Interpretation and analysis of pros and cons of subjects learned in the field of pharmaceutical sciences.

PROGRAM OUTCOMES

PO1	Pharmacy Knowledge: Possess insight and restructuring of the core and basic knowledge associated with the profession of pharmacy, including pharmaceutical sciences, behavioral, social and administrative pharmacy sciences and manufacturing practices.
PO2	Planning Abilities: Demonstrate effective planning abilities including time allocation, assigning skills and bureaucratic skills. Develop and implement plans and organize work to meet target.
PO3	Problem Analysis: The gist of generating as many ideas as possible, utilizing the principles of scientific inquiry, thinking analytically, clearly and critically, while solving problems and making decisions to minimize these constraints to the core problems so that they may be acknowledged and resolved.
PO4	Modern Tool Usage: create, select and apply pertinent techniques and resources and modern pharmacy related statistical tools with an understanding of the constraints.
PO5	Strategic Skills: harmonize and match the subordinate needs with the organizational needs. appreciation and reward to achieve the desired goal. assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and wellbeing
PO6	Professional Coherence: includes alignment of roles, responsibilities, values and ethical standards to be consistent with practice.
PO7	Pharmaceutical Standards: to elevate ethical values in professional and social context with solicitous and compassionate spirit, focusing on ethical principles while making decisions and take responsibility for the outcomes.
PO8	Communication: divulge with the pharmacy community and with society such as being able to perceive and write effective reports, make constructive demonstration and authentication with clear instructions.
PO9	Pharmacist In Society: apply the reason informed by the circumstantial knowledge to gauge civil, well-being, safety and legitimate issues and consequent responsibilities pertinent to the professional pharmacy practice.
PO10	Ecological feasibility: To improve the quality of human life by demonstrating the knowledge of professional pharmaceutical ethics and guidelines for the development of societal and environmental context.
PO11	Inveterate learning: concede the need and have the devising and ability to engage in self-sustaining and persistent learning in the broadest context of technological change. Self-access and use feedback effectively from others to identify learning needs and to satisfy these needs on perpetual basis.

3.JNTUH Academic Calendar And List Of Holidays

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR (2017-18)

B.PHARMACY. I YEAR - I & II SEMESTERS

B. Pharmacy I year I Semester

S. No	EVENT	DATE	Duration
1.	Commencement of Instruction	28 th Aug. 2017	--
2.	First Mid Term Examinations	26 th to 28 th Oct. 2017	--
3.	Submission of First Mid Term Exam Marks to University on or before	6 th Nov. 2017	--
4.	Dussehra recess	25 th to 30 th Sept. 2017	1 week
5.	Parent-Teacher Meeting	11 th Nov. 2017	--
6.	Second Mid Term Examinations	21 st to 23 rd Dec. 2017	--
7.	Last date of Instruction	23 rd Dec. 2017	16 weeks
8.	Preparation Holidays and Practical Examinations	27 th Dec. 2017 to 3 rd Jan. 2018	1 week
9.	Submission of Second Mid Term Exam Marks to University on or before	6 th Jan. 2018	--
10.	End Semester & Supplementary Examinations and Supplementary Examinations for II Sem.	4 th to 20 th Jan. 2018	2 weeks (14 working days)

B. Pharmacy I year II Semester

S. No	EVENT	DATE	Duration
1.	Commencement of Instruction	22 nd Jan. 2018	--
2.	First Mid Term Examinations	15 th to 17 th March 2018	--
3.	Submission of First Mid Term Exam Marks to University on or before	24 th March 2018	--
4.	Parent-Teacher Meeting	14 th April 2018	--
5.	Summer Vacation	8 th May to 2 nd June 2018	4 weeks
6.	Second Mid Term Examinations	6 th to 8 th June 2018	--
7.	Last date of Instruction	8 th June 2018	16 weeks
8.	Submission of Second Mid Term Exam Marks to University on or before	19 th June 2018	--
9.	Preparation Holidays and Practical Examinations	18 th to 23 rd June 2018	1 week
10.	End Semester / Supplementary Examinations and Supplementary Examinations for I Sem. of I year R16 & R17 and for 1 year of R09, R13 and R15 Regulations.	26 th June to 13 th July 2018	3 weeks (14 working days)

Principal
PRINCIPAL
 Geethanjali College of Pharmacy
 Cheerajpet (V), Keerasani (M), Medchal Dist. T.S. 501304.



Director
DIRECTOR
 ACADEMIC & PLANNING, JNTUH

Signature

4. Syllabus Copy Including Text Books And Reference Books

Unit – I 10 hours

Body fluids and blood

Body fluids, composition and functions of blood, hemopoiesis, formation of hemoglobin, anemia, mechanisms of coagulation, blood grouping, Rh factors, transfusion, its significance and disorders of blood, Reticulo endothelial system.

Lymphatic system

Lymphatic organs and tissues, lymphatic vessels, lymph circulation and functions of lymphatic system

Unit – II 10 hours

Cardiovascular system

Heart – anatomy of heart, blood circulation, blood vessels, structure and functions of artery, vein and capillaries, elements of conduction system of heart and heart beat, its regulation by autonomic nervous system, cardiac output, cardiac cycle. Regulation of blood pressure, pulse, electrocardiogram and disorders of heart.

Unit – III 06 hours

Digestive system

Anatomy of GI Tract with special reference to anatomy and functions of stomach, (Acid production in the stomach, regulation of acid production through parasympathetic nervous system, pepsin role in protein digestion) small intestine and large intestine, anatomy and functions of salivary glands, pancreas and liver, movements of GIT, digestion and absorption of nutrients and disorders of GIT.

Respiratory system

Anatomy of respiratory system with special reference to anatomy of lungs, mechanism of respiration, regulation of respiration

Unit – IV 10 hours

Respiratory system

Lung Volumes and capacities transport of respiratory gases, artificial respiration, and resuscitation methods.

Urinary system

Anatomy of urinary tract with special reference to anatomy of kidney and nephrons, functions of kidney and urinary tract, physiology of urine formation, micturition reflex and role of kidneys in acid base balance, role of RAS in kidney and disorders of kidney.

Unit – V 09 hours**Reproductive system**

Anatomy of male and female reproductive system, Functions of male and female reproductive system, sex hormones, physiology of menstruation, fertilization, spermatogenesis, oogenesis, pregnancy and parturition

Introduction to genetics Chromosomes, genes and DNA, protein synthesis, genetic pattern of inheritance

TEXTBOOKS: (Latest Editions)

1. Essentials of Medical Physiology by K. Sembulingam and P. Sembulingam. Jaypee brothers medical publishers, New Delhi.
2. Anatomy and Physiology in Health and Illness by Kathleen J.W. Wilson, Churchill Livingstone, New York
3. Physiological basis of Medical Practice-Best and Tailor. Williams & Wilkins Co, Riverview, MI USA
4. Text book of Medical Physiology- Arthur C, Guyton and John. E. Hall. Miamisburg, OH, U.S.A.
5. Principles of Anatomy and Physiology by Tortora Grabowski. Palmetto, GA, U.S.A.
6. Textbook of Human Histology by Inderbir Singh, Jaypee brothers medical publishers, New Delhi.
7. Textbook of Practical Physiology by C.L. Ghai, Jaypee brothers medical publishers,
8. Practical workbook of Human Physiology by K. Srinageswari and Rajeev Sharma, Jaypee brother's medical publishers, New Delhi.

REFERENCE BOOKS:

1. Physiological basis of Medical Practice-Best and Tailor. Williams & Wilkins Co, Riverview, MI USA
2. Text book of Medical Physiology- Arthur C, Guyton and John. E. Hall. Miamisburg, OH, U.S.A.
3. Human Physiology (vol 1 and 2) by Dr. C.C. Chatterrje ,Academic Publishers Kolkata

Personal Time Table

Day	09.30-10.20	10.20-11.10	11.10-12.00	12.00-12.50	12.50-01.30	01.30-02.20	02.20-03.10	03.10-04.00
MON		HAP			L U N C H			
TUE	Hap Lab							
WED							HAP	
THU							HAP (TL)	
FRI							HAP	
SAT								

PRINCIPAL

6.

Calendar of Events

GEETHANJALI COLLEGE OF PHARMACY
CHEERYAL (V), KEESARA (M) MEDCHAL DIST, 501301

ACADEMIC CALENDAR (2017-18)**B.PHARMACY I YEAR I & II SEMESTERS**

S.NO	EVENT	DATE	DURATION
I SEM			
1	Orientation Day	1 st Sep 2017	---
2	Commencement of Class Work	4 th Sep 2017	----
3	World Pharmacist Day Celebration's	23 rd Sep 2017	---
4	Teacher's Day Celebration's	23 rd Sep 2017	----
5	Bathukamma Celebration's	23 rd Sep 2017	---
6	Dussehra Holidays	25 th to 30 th Sept 2017	1 Week
7	First Mid Term Examinations	26 th Oct to 28 th Oct 2017	3 Days
8	Submission of First Mid Term Exam Marks to University on or Before	6 th Nov 2017	---
9	Parent-Teacher Meet	20 th Nov 2017	---
10	Second Mid Term Examinations	21 st to 23 rd Dec 2017	---
11	Last Date of Instruction	23 rd Dec 2017	16 Weeks
12	Preparation Holidays and Practical Examinations	27 th Dec 2017 to 3 rd Jan 2018	1 Week
13	Submission of Second Mid Term Exam Marks to University on or Before	6 th Jan 2018	---
14	Traditional Day Celebration's	12 th Jan 2018	----
15	End Semester / Supplementary Examinations & Supplementary Examinations for II Sem	4 th Jan to 20 th 2018	2 Weeks (14 Working days)
II SEM			
16	Commencement of Class Work	22 nd Jan 2018	---
17	Vibgyor	9 th March 2018	---
18	Vibes	10 th March 2018	---
19	First Mid Term Examinations	15 th to 17 th March 2018	---
20	Submission of First Mid Term Exam Marks	24 th March 2018	---
21	Parent-Teacher Meeting	17 th April 2018	---
22	Summer Vacation	8 th May to 2 nd June 2018	4 (Weeks)
23	Second Mid Term Examinations	6 th to 8 th June 2018	3 Days
24	Last date of Instructions	8 th June 2018	16 Weeks
25	Submission of Second Mid Term Exam Marks to University on or Before	19 th June 2018	---
26	PreParation Holidays and Practical Examination	18 th to 23 rd June 2018	1 Week
27	End Semester / Supplementary Examinations & Supplementary Examinations for I Sem. of I year R16 & R17 and for I year of R09, R13 and R15 Regulations.	26 th June to 13 th July 2018	3 Weeks (14 working days)

Copy to: PAB,CAC
All HODs,
Teaching Faculty Members.



Signature of
PRINCIPAL
22.8.17
PRINCIPAL
Geethanjali College of Pharmacy
Cheeryal (V), Keesara (M), Medchal Dist. 501301.

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Jan'2018	1 New Year	2	3	4	5	6	7
	8	9	10	11	12 Traditional Day Celebration's	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31	--	--	--	--
Feb'2018				1	2	3	4
	5	6	7			10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	--	--	--	--
Mar'2018	--	--	--	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15I Mid Term Examination			18
				16	17		
	19	20	21	22	23	24	25
26	27	28	29	30	31	--	
Apr'2018	--	--	--	--	--	--	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	--	--	--	--	--	--
May'2018	--	1	2	3	4	5	6
	7	08th May to 02nd June 2018 Summer Vacation					
Jun'2018						1	2
	3	4	5	6			9
				7 II Mid Term Examination			
				8			
	10	11	12	13	14	15	16
	17	18Prepation Holidays and Practical Examinations 19 20 21 22 23					
24	25	26 june to 13 july End Exams					

7. Lesson Plan with methodology being used/adopte

Teaching Plan						
Course: HUMAN ANATOMY ANDPHYSIOLOGY						
Course Code PS201						
No of Lectures Required/Available:51						
Date of Semester Starting:22/01/2018						
Date of Semester Ending:7/06/2018						
	Topics	Lecture Required	Lecture No	Proposed of Lecture	Methodology Adopted	Remarks
						Actual Lecture Taken
UNIT I	Composition and functions of body fluids	1	1	22/1/18	BB	22/1/18
(12)	Haemopoiesis, formation of haemoglobin	1	2	24/1/18	BB	24/1/18
	Anaemia	1	3	25/1/18	BB	25/1/18
	Mechanism of coagulation	1	4	29/1/18	BB	29/1/18
	Blood grouping	1	5	31/1/18	BB	31/1/18
	Rh Factor	1	6	1/2/18	BB	1/2/18
	Transfusion of blood	1	7	2/2/18	BB	2/2/18

	Significance and disorders of blood	1	8	5/2/18	BB	5/2/18
	Reticulo endothelial system	1	9	7/2/18	BB	7/2/18
	Lymphatic organs and tissues	1	10	8/2/12	BB	8/2/12
	Lymphatic vessels	1	11	9/2/18	BB	9/2/18
	Lymph circulation and functions of lymph	1	12	12/2/18	BB	12/2/18
UNIT II (11)	Anatomy of Heart	1	13	14/2/18	BB	14/2/18
	Blood circulation	1	14	15/2/18	BB	15/2/18
	Blood vessels	1	15	16/2/18	BB	16/2/18
	Structure and functions of arteries, veins and capillaries	1	16	19/2/18	BB	19/2/18
	Elements of conduction of system of heart	1	17	21/2/18	BB	21/2/18
	Heartbeat regulation by ANS	1	18	22/2/18	BB	22/2/18
	Cardiac output	1	19	23/2/18	BB	23/2/18
	Cardiac cycle	1	20	26/2/18	BB	26/2/18
	Regulation of blood pressure, pulse	1	21	28/2/18	BB	28/2/18
	Electrocardiogram	1	22	2/3/18	BB	2/3/18
	Disorders of heart	1	23	5/3/18	BB	5/3/18
UNIT III (9)	Anatomy of GI tract	1	24	7/3/18	BB	7/3/18
	Function of stomach	1	25	8/3/18	BB	8/3/18
	Functions of small intestine	1	26	9/3/18	BB	9/3/18
	Functions of large intestine	1	27	12/3/18	BB	12/3/18
	Anatomy and functions of salivary glands	1	28	14/3/18	BB	14/3/18
	Functions of pancreas and liver	1	29	15/3/18	BB	15/3/18
	Movements and disorders of GI	1	30	16/3/18	BB	16/3/18
	Anatomy of respiratory system	1	31	19/3/18	BB	19/3/18
	Mechanism and resutation of respiration	1	32	21/3/18	BB	21/3/18
UNIT IV (6)	LUNG VOLUMES AND CAPACITIES	1	33	22/3/18	BB	22/3/18
	Anatomy of urinary tract	1	34	23/3/18	BB	23/3/18

	Anatomy and functions of kidneys, nephron	1	35	28/3/18	BB	28/3/18
	Physiology of urine formation	1	36	29/3/18	BB	29/3/18
	Metabolism of acid base balance	1	37	2/4/18	BB	2/4/18
	Role of RAAS in kidneys, disorders of kidneys	1	38	4/4/18	BB	4/4/18
UNIT V (13)	Anatomy of male and female reproductive system	1	39	6/4/18	BB	6/4/18
	Functions of male and female reproductive system	1	40	9/9/18	BB	9/9/18
	Sex harmopnes	1	41	11/4/18	BB	11/4/18
	Fertilization of spermatogenesis, oogenesis	1	42	12/4/18	BB	12/4/18
	Pregnancy, menstruation	1	43	13/4/18	BB	13/4/18
	Chromosomes, senses,DNA	1	44	16/4/18	BB	16/4/18
	Protein synthesis genetic pattern of inheritance	1	45	18/4/18	BB	18/4/18
	Protein synthesis genetic pattern of inheritance	1	46	19/4/18	BB	19/4/18
	Unit-2 test	1	47	20/4/18	BB	20/4/18
	Unit-3 test	1	48	23/4/18	BB	23/4/18
	Unit-4 test	1	49	25/4/18	BB	25/4/18
	Revision of 1, 2 chapters	1	50	26/4/18	BB	26/4/18
	Revision of 3, 4 chapters	1	51	30/4/18	BB	30/4/18

8. Subject Notes:

Hard copy available

Course Name: HAP-II

Course Code: C121

(D) Course Attainment = No of Students Secured more than bench mark ($\geq 40\%$ of CO Attainment) /No of Students appeared *100

COURSE ATTAINMENT= 73.6

Course	Co de	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	Correlation Value and Multiplication Factor
B.PHARMACY FIRST YEAR/II SEM													3 2
HAP-II	C121	3	1	3	2	1	3	3	2	2	2	3	0.8 0.6
Direct Attainment		58.8	29.44	58.4	44.1	29.4	58.4	58.4	29.4	29.4	29.4	58.4	
Direct attainment = Course attainment * 0.8/0.6/0.4 respectively													
Prepared By: Mrs P Deepika							Verified By:						
HOD:							PRINCIPAL:						

2. JNTUH OLD QUESTION PAPER/QUESTION BANK:**UNIT-I****Short answer question:**

1. Explain about body fluids?
2. Explain composition and functions of blood?
3. Discuss about hemopoiesis?
4. Explain formation of hemoglobin?
5. Define anemia and explain types of anemia?
6. List out all clotting factors and explain mechanism of coagulation?
7. Discuss about blood grouping and Rh factors?
8. Write a note on blood transfusion?
9. Explain disorders of blood?
10. Explain reticulo endothelial system?

Long answer questions

1. List out all clotting factors? And explain mechanism of coagulation?
2. Explain briefly about Reticulo endothelial system?
3. Explain body fluids and discuss about composition and functions of blood?
4. Explain blood grouping, Rh factor, blood transfusion and its significance?
5. Explain about lymph circulation and functions of lymphatic system?

UNIT-II**Short answer questions:**

1. Explain structure and functions of the heart?
2. Write a note on blood circulation?
3. Explain structure and functions of artery and vein?
4. Explain conduction system of the heart?
5. Define cardiac cycle and explain about it?

6. Explain cardiac output?
7. Explain blood pressure?
8. Explain about pulse?
9. Explain electrocardiogram?
10. Define all cardiovascular disorders?

Long answer questions

1. Explain anatomy and conduction system of the heart?
2. Write a note on structure and functions of blood vessels?
3. Define blood pressure and discuss about regulation of blood pressure?
4. Explain disorders of heart?

UNIT III**Short answer questions**

1. Explain anatomy and functions of stomach?
2. Discuss about acid production in the stomach?
3. Explain anatomy and functions of salivary glands?
4. Explain anatomy of Pancrease?
5. Explain about anatomy and functions of Liver?
6. Discuss digestion and absorption of nutrients in GIT?
7. Explain disorders of GIT?
8. Explain mechanism of respiration?
9. Explain regulation of respiration?

Long answer questions

1. Explain anatomy physiology and functions of GIT?
2. Discuss about structure and functions of Liver?
3. Explain digestion and absorption of nutrients of GIT?
4. Explain disorders of GIT
5. Explain anatomy and physiology of Lungs?

UNIT IV

Short answer questions

1. Discuss about lung volumes and capacities?
2. Explain about transport of respiratory gases?
3. Explain artificial respiration?
4. Write about resuscitation methods?
5. Explain structure and functions of kidney?
6. Explain structure and functions of nephrons?
7. Explain physiology of urine formation?
8. Explain micturition?
9. Explain acid base balance?
10. Explain role of RAS in kidney?
11. Explain disorders of kidney?

Long answer questions

1. Explain detailed about anatomy and physiology of Respiratory system?
2. Explain detailed about mechanism and regulation of Respiration?
3. Explain briefly about Lung volumes and capacities?
4. Discuss about artificial respiration?
5. Explain about resuscitation methods in detail?
6. Structure and functions of kidney and nephrons.?
7. Explain about physiology of urine formation?

UNIT V**Short answer questions**

1. Write a note on female reproductive system?
2. Explain about anatomy of female reproductive system?
3. Explain detailed about physiology of female reproductive system?
4. Write about female reproductive system hormones and their functions?
5. Write about uterus?

6. Discuss about ovaries?
7. Write a note on menopause?
8. Explain menstrual cycle?
9. Write a note on progesterone?
10. Write a note on sex differentiation?
11. Explain about pregnancy its maintenance?
12. Discuss about parturition?
13. Write anatomy physiology and functions of male reproductive system?
14. Discuss male reproductive system hormones and their functions?
15. Write a note on ejaculation?
16. Explain about prostate gland?
17. Discuss about puberty in the male?
18. Explain about scrotum and testes?
19. Explain about ovaries?

Long answer questions

1. Explain detailed about anatomy and physiology of female reproductive system with neat labeled diagram?
2. Explain detailed about anatomy and physiology of male reproductive system with neat labeled diagram?
3. Write detailed about female reproductive system hormones and their functions?
4. Write detailed about male reproductive system hormones and their functions?
5. Write a note on physiology of menstruation?
6. Discuss about sex differentiation?
7. Write detailed about pregnancy its maintenance?
8. Discuss about parturition?

16. Internal Test Question Papers (I, II & III Internal Question Papers/Sub/Obj/Key)Answer any **TWO** questions

Q. No	Question	Max. Marks	CO No	KL
1.a	Explain about mechanism of Coagulation and list out all Coagulation factors.	5	CO1	K2
2.a	Outline the anatomy of Heart with diagram.	5	CO2	K2
3.a	Explain briefly about types Anemia.	5	CO2	K2
4.a	Explain about (i) Cardiac output (ii) Reticulo endothelial system.	5	CO2	K2

CO- Course Outcome (1to5); KL- Blooms knowledge Level (K1, K2, K3, K4, K5, K6)
 K1 – Remember K2 – Understand K3 – Apply K4 – Analyze K5 – Evaluate K6 – Create

PREPARED BY

CHECKED BY

PRINCIPAL

Code No.242AA

Set No.1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Pharmacy I Year II-Sem., I-Mid-Term Examinations, March-2018

HAP-II

Name: _____ Hall Ticket No.

						R			
--	--	--	--	--	--	---	--	--	--

Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

I Choose the correct alternative:

- In ABO system blood group AB is characterized by []
 A) Presence of both AB antigens B) Presence of both AB antibodies
 C) Presence of both AB antigens& Antibodies D) Presence of O antibodies.
- The capillary endothelium separates these two body fluid compartments. []
 A) Intracellular fluid & Plasma B) Plasma & Interstitial fluid.
 C) Intracellular fluid & Extracellular fluid D) Extracellular fluid & interstitial fluid
- The major anion in the extracellular fluid is []
 A) Chloride B) Magnesium C) Phosphate D)Sulfate
- The pH of Arterial blood ranges from []
 A) 3.4 -6.56 B) 6.0 -7.01 C) 7.2-7.6 D) 8.1-8.3
- Example for Agranulocyte is []
 A) Neutrophil B) Basophil C) Eosinophil D) Monocyte
- In clotting mechanism the proteins are activated in one of listed order []
 A) Prothrombin activator, thrombin, fibrin B) thrombin, fibrin, prothrombin activator
 C) Thrombin, prothrombin activator, fibrin D) fibrin, thrombin, prothrombin activator
- Which of the following heart chambers is correctly associated with the blood vessel that enters or leaves it? []
 A) Right atrium - pulmonary veins B) Left atrium – aorta
 C) Right ventricle - pulmonary trunk D) left ventricle - superior and inferior vena
- Which antibody accounts for 80-85% of serum antibodies, can cross the placenta, []

and is responsible for Rh reactions?

- A) Ig E B) Ig G C) Ig M D) Ig D

9. The enteric plexus in the tunica submucosa is called the _____ plexus. []

- A) Meissner's B) Auer Bach's C) Myenteric D) None

10. Tachycardia is defined as []

- A) Increased heart rate B) Decreased heart rate C) Normal heart beat D) None

Code No. 242AA

:2:

Cont...
Set No.1

II. Fill in the Blanks

11. The heart is located _____

12. In an ECG graph the P wave represents _____

13. Increase in intracellular Calcium ions causes _____ Force of contraction and
_____ heart rate.

14. _____ is defined as deposition of fat like substance containing cholesterol in the walls of arteries which form plaque.

15. Mean arterial blood pressure is measured by multiplying the _____ with

16. Abnormal high count of RBC in blood is defined as _____

17. The longest region of Small intestine is _____

18. Parasympathetic stimulation causes endocrine cells in the stomach to release the hormone

19. _____ blood vessels transport blood from the right ventricle through the lungs and back to left atrium.
20. SA node of heart is called as _____

-oOo-

Code No.242AA

Set No. 1

HUMAN ANATOMY AND PHYSIOLOGY-II**Key****I Choose the correct alternative:**

1. A

2. B

3. A

4. C

5. D

6. A

7. C

8. B

9. A

10. A

11. Fill in the Blanks

12. Medial to sternum.

13. Depolarization of the atria.

14. Increased and decreased.

15. Atherosclerosis.
16. Cardiac output (CO) with Peripheral vascular resistance (PVR)
17. Polycythemia
18. Ileum
19. Gastrin.
20. Pulmonary vessels
21. Pacemaker of heart

-oOo-

Answer any **TWO** questions

Q. No	Question	Max. Marks	CO No	KL
1.a	Explain about phases of digestion.	5	CO3	K2
2.a	Outline anatomical features of Lungs and explain Lung volumes.	5	CO3	K2
3.a	Outline the physiology of urine formation.	5	CO4	K2
4.a	Explain physiology of Menstruation.	5	CO4	K2

CO- Course Outcome (1to5); KL- Blooms knowledge Level (K1, K2, K3, K4, K5, K6)

K1 – Remember K2 – Understand K3 – Apply K4 – Analyze K5 – Evaluate K6 – Create

PREPARED BY

CHECKED BY

PRINCIPAL

Code No.242AA

Set No.1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Pharmacy I Year II Sem., II-Mid Examinations, June-2018

HUMAN ANATOMY AND PHYSIOLOGY-II

Objective Exam

Name: _____ Hall Ticket No.

						R				
--	--	--	--	--	--	---	--	--	--	--

Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

I Choose the correct alternative:

1. The lipoprotein reduces surface tension within the alveoli called as []
A) phospholipid B) surfactant C) alveolar membrane protein D) phosphoprotein.
2. The basic rhythm of breathing is controlled by which portion of the brain []
22. chemoreceptors B) ventral respiratory group of the medullary rhythmicity center.
23. Pneumotaxic area D) dorsal respiratory group of the medullary rhythmicity center.
3. The only structures that allow gas diffusion across them are []
A) Alveoli B) Trachea C) Bronchioles D) nasal cavities
4. During ovulation a ----- is released from the ovary []
A) ovum B) primary oocyte C) secondary oocyte D) oogonium
5. Which factor favors spermatozoa development []
A) temperature of 37°C B) temperature of 34°C C) oestrogens D) acidity
6. Which layer of the uterus is shed once monthly during menstruation []
A) myometrium B) perimetrium C) endometrium D) exometrium
7. The structural and functional unit of kidneys []
A) Nephrons B) Neurons C) Alveoli D) Uterine cells
8. Aquaporins are triggered by the presence of []

A) Sodium B) ADH C) ANP D) Alodosterone

9. The reproductive glands of the male are []

A) Cowpers gland B) Bartholin's glands C) Testis D) Montgomery's glands

10. Infection of stomach with Helico bacter pylori results in []

A) Inflammation B) Duodenal ulcers C) Gastric ulcer D) None

Cont...2

Code No.242AA

:2:

Set No.1

24. Fill in the Blanks

11. The kidneys are located _____
12. ADH means _____
13. If respiration rate increases the amount of CO₂ in the blood _____ and P^H

- II. In a normal 28-day menstrual cycle ovulation occurs about _____
- JJ. The j shaped structure of GIT is _____
_____Hormone secreted by endocrine part of pancreas
11. The _____ part of pancreas secretes enzymes that aid in digestion of food in small intestine.
12. To take breath in the _____ muscles contract, moving the ribcage up and out
13. The _____ region of nephron is responsible for concentration and dilution of urine.
14. GFR means _____

-oOo-

Code No.242AA

Set No. 1

HUMAN ANATOMY AND PHYSIOLOGY-II**Key****I Choose the correct alternative:**

1. B
2. D
3. A
4. C
5. B
6. C
7. A
8. B
9. C
10. C

II Fill in the Blanks

1. Pelvic Cavity
2. Anti-Diuretic Hormone
3. Decreases and P^h Increases
4. Day 14
5. Stomach
6. Insulin and Glucagon
7. Exocrine
8. External Intercoastal Muscles
9. Loop of Henle
10. Glomerular Filtration Rate

17. ASSIGNMENT QUESTIONS**UNIT-I**

1. Explain composition and functions of blood.
2. Explain formation of hemoglobin.
3. Define coagulation? And explain mechanism of coagulation.
4. Explain Reticulo endothelial system.
5. Explain about spleen.

UNIT-II

1. Explain anatomy of heart with neat labelled diagram.
2. Explain structure and functions of artery and vein.
3. Explain conduction system of heart and heart beat.
4. Explain regulation of blood pressure.
5. Write briefly about disorders of heart.

UNIT-III

1. Explain anatomy and functions of Stomach.
2. Explain regulation of acid production through parasympathetic nervous system.
3. Anatomy and functions salivary glands.
4. Explain summery and digestion of absorption of nutrients in GIT?
5. Explain disorders of GIT
6. Explain mechanism and regulation of respiration.

UNIT-IV

1. Write a note on respiratory volumes and vital capacity
2. Write anatomy physiology and functions of kidney
3. Discuss about Acid-base balance
4. Explain resuscitation methods.
5. Explain anatomy and functions of nephrons.
6. Explain physiology of urine formation.
7. Explain disorders of Kidney.

UNIT-V

1. Explain anatomy of female reproductive system.
2. Explain physiology of menstruation.

3. Explain spermatogenesis, oogenesis.
4. Explain pregnancy and parturition.
5. Explain about genes and DNA.
6. Explain genetic pattern of inheritance.

18. Scheme of Evaluation

PARTICULAR	WEIGHTAGE	MARKS
End Examinations	75%	75
Two Sessionals	20%	20
Assignment	5%	5

19. Identification of Bright Students

S.NO	ROLL NUMBER	NAME OF THE STUDENT
1	17Z51R0001	Divya
2	17Z51R0002	Annapoosa Divya
3	17Z51R0012	Divakaruni Durga Priyanka
4	17Z51R0004	B. Aakanksha
5	17Z51R0025	Mandha Niharika

20. IDENTIFICATION OF WEAK STUDENTS

S.NO	ROLL NUMBER	NAME OF THE STUDENT
1	17Z51R0020	Kotha Deepak Reddy
2	17Z51R0015	Gangiti Praveen
3	17Z51R0028	Narra Lokeshwara
4	17Z51R0011	Dandu Priyanka

22.Result Analysis:**GEETHANJALI COLLEGE OF PHARMACY**

Cheeryal (V), Keesara (M), Medchal (D), T.S-501301.

Statement of Result Analysis

Academic Year: 2017-18	Program: B. Pharmacy
Batch: 2017-22	Regulation: R 17
Year/Sem: I/II	Section: SECTION-A
Course: HUMAN ANATOMY AND PHYSIOLOGY-II	Course Code: C121

No of Students Appeared: 38**No of Students Passed: 29****Pass Percentage: 76.3%**

	O (Outstanding), A+, A	B+, B	C
No of Students	1	13	14
%	2.6%	34.2%	36.8%

Prepared By: DR. B Rambabu**Verified By: Name & Signature****HOD: Dr.B.Bhattacharya & Signature****PRINCIPAL**