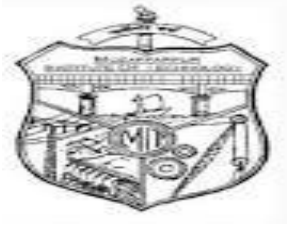
Department of Pharmacy
M.I.T., Muzaffarpur



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Contact Details:
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Name of Course: Pharmacology –III
Course code (T) : 091702
Course code (P) : 091702P
Semester : VII
Academic year : 2018-2019

COURSE DESCRIPTIONS: PHARMACOLOGY-VIII
B. PHARM –SEVENTH SEMESTER

1. Course Syllabus

Module: 1. Drugs Acting on the Gastrointestinal Tract
1.1. Antacids, Anti secretory and Anti-ulcer drugs, Laxatives and antidiarrhoeal drugs.
1.2. Appetite stimulants and suppressants.
1.3. Emetics and anti-emetics.
1.4. Miscellaneous: carminatives, demulcents, protectives, adsorbents, astringents, digestives, enzymes and mucolytics.
Module: 2. Pharmacology of drugs affecting Endocrine System
2.1. Hypothalamic and pituitary hormones
2.2. Thyroid hormones and anti-thyroid drugs, calcitonin and Vitamin D.
2.3. Insulin, oral hypoglycemic agents
2.4. ACTH and corticosteroids
2.5. Androgens and anabolic steroids, Estrogens, progesterone and oral contraceptives. **Module: 3. Chemotherapy**
3.1. General principles of Chemotherapy.
3.2. Sulfonamides and Quinolones.
3.3. Penicillin, Cephalosporins, Tetracyclines, Amino glycoside antibiotics, Chloramphenicol and Erythromycin
Module: 4. Chemotherapy of Infections
4.1. Chemotherapy of malaria tuberculosis, leprosy, fungal diseases, viral diseases
4.2. Chemotherapy of malignancy and immunosuppressive agents
4.3. Antiprotozoal drugs and anthelmintics
Module: 5. Concepts of Clinical Pharmacology 5.1. Clinical Trial studies 5.2. Preclinical Toxicity studies 5.3. Bioassay of Drugs and Biological Standardization. 5.4. Drug interactions

Recommended Books:
1. K.D. Tripathi, Essentials of Medical Pharmacology, JAYPEE.

2. H.L. Sharma and K.K. Sharma, Principles of Pharmacology, PARAS.
3. Lippincott Illustrated Reviews: Pharmacology; Editors: Clark MA, Finkel R, Rey JA, Whalen K; WOLTERS KLUWER HEALTH / LIPPINCOTT, WILLIAMS AND WILKINS
4. Katzung B.G., Masters S.B., Trevor A.J., Basic & Clinical Pharmacology; McGraw-Hill (LANGE)
5. Rang M.P., Dale M.M., Riterl M. Pharmacology, CHURCHILL LIVINGSTONE

SAMPLE TIME TABLE

MUZAFFARPUR INSTITUTE OF TECHNOLOGY

ODD SEM (JULY- DEC 2018) TIME TABLE FOR 3 rd , 5 th & & 7 th SEMESTER, B.PHARM, WITH EFFECT FROM 16.07.20

DAY	SEMESTER	9 AM TO 10	10 -11 AM	11- 12 AM	12 -1 PM	2- 3 PM	3 P
MON	THIRD SEM	APHE II SK	PHARM ANAL II GT	PHARMACEUTICS III AB	PHARMACOGNOSY II NRB		CLAS
	FIFTH SEM	PHARMACEUTICS V RKC	PHARMACEUTICS V LAB RKC				CLAS
	SEVENTH SEM	PHARMA. BIOTECH SNS	PHARM CHEM VII RP	PHARMA. INDUST. MANAG.	PHARMACOLOGY III RP		CLAS
TUES	THIRD SEM	PHARMACEUTICS III AB	PHARM CHEM IV SW	PHARMACEUTICS III AB(T)	PHARM ANAL II GT(T)		PHARMA LA
	FIFTH SEM	PHARM CHEM V SNS	PHARMACEUTICS VI AB	PHARMA CEUTICS V RKC	PHARMACOLOGY I SK		PHARM C S
	SEVENTH SEM	PHARMACEUTICS VIII RKC	PHARM CHEM VII RP	PHARMACOLOGY III RP	PHARMACEUTICS VIII RKC(T)		PHARMA LA
WED	THIRD SEM		PHARMACOGNOSY II NRB(T)	PHARMACOGONOSY II NRB	PHAR ANAL II GT		PHARMAC II LA
	FIFTH SEM	PHARMACOLOGY I SK	PHARM CHEM V SNS	PHARMACEUTICS VI AB	PHARMACOLOGY I SK(T)		PHARMA LA
	SEVENTH SEM	PHARM CHEM VII RP(T)	PHARMACEUTICS VIII RKC	PHARM CHEM VII RP	ELECTIVE OPT		PHARM C
THURS	THIRD SEM	APHE II SK(T)	PHARM CHEM IV SW	APHE II SK	PHARM CHEM IV SW(T)		PHARM A C
	FIFTH SEM	PHARM CHEM V SNS	PHARMACEUTICS VI AB	PHARMACOGONOSY IV SW			PHARMAC IV LA

	SEVENTH SEM	PHARMACEUTICS VIII RKC	PHARMA. BIOTECH SNS(T)	PHARMACOLOGY III RP	ELECTIVE OPT	ELECTIVE
FRI	THIRD SEM	APHE II SK	PHARMACUTICAL CHEMISTRY IV LAB SW			APHE I
	FIFTH SEM	PHARMACOGONOSY IV SW	PHARMACEUTICS V RKC	PHARMACOGONOSY IV SW(T)	PHARMACEUTICS V RKC(T)	PHARMAC LAB C
	SEVENTH SEM		ELECTIVE OPT (T)	ELECTIVE OPT	PHARMA. BIOTECH.SNS	PHARMA III RK
SAT	THIRD SEM	PHARMACOGONOSY II NRB	PHARM CHEM IV SW	PHAR ANAL II GT	PHARMACEUTICS III AB	
	FIFTH SEM	PHARM CHEM V SNS(T)	PHARMACOLOGY I SK	PHARMACEUTICS VI AB	PHARMACOGONOSY IV SW	
	SEVENTH SEM	PHARMACOLOGY III RP(T)	PHARMA. INDUST. MANAG.	PHARMA. BIOTECH SNS		

2. Course Objective

The graduates of the programme will possess:

1. The knowledge of basic pharmacology, some major diseases and cell injury & adaptation.

2. The knowledge of pharmacology of drugs acting on PNS and CNS

3. Course Outcomes (COs)

After completion of the course, the students are will be able to:

1. Evaluate the effects of drugs using animal models of G.I. diseases (Bloom's Level V).

2. Explain the pharmacology and rational use of drugs used for the treatment various endocrine disorders (Bloom's Level V).

3. Analyze the problems associated with the drugs used for the treatment various microbial infections and cancer (Bloom's LevelVI).

4. Discover the new updates on chemotherapeutic agents and preclinical & clinical research regularly (Bloom's Level VI).

4. Mapping of COs with Pos

PO	CO1	CO2	CO3	CO4
1				
2				
3				
4				

5				
6				
7				
8				
9				
10				
11				
12				

5. Assessment Methods for Cos

5.1. Theory

S.No	Assessment Tools	Marks	Outcomes
1	Sessional Examination	20	CO1 CO2 CO3 CO4
2	Assignment	02	CO1 CO2 CO3 CO4
3	Presentation	02	CO1 CO2 CO3 CO4

4	Quizzes	01	CO1 CO2 CO3 CO4
5	Attendance	05	NA
6	University Examination	70	NA

5.2. Practical

S.No	Assessment Tools	Marks	Outcomes
1	Attendance	05	CO1 CO2 CO3 CO4
2	Experiment valuation	10	CO1 CO2 CO3 CO4
3	Internal Viva- voce	05	CO1 CO2 CO3 CO4
4	University Practical Exam	30	CO1 CO2 CO3 CO4

6. Delivery Methodology

Outcomes	Methods	Supporting Tools
CO 1	Chalk-Talk, Interactive classroom, ICT usage, Group discussions, Web based learning	Board, Laptop, Projector, You Tube, Whatsapp, Google,

CO2	Chalk-Talk, Interactive classroom, ICT usage, Web based learning	Board, Laptop, Projector, You Tube, Whatsapp, Google,
CO3	Chalk-Talk, Interactive classroom, ICT usage, Group discussions, , Web based learning	Board, Laptop, Projector, You Tube, Whatsapp, Google,
CO4	Chalk-Talk, Interactive classroom, ICT usage, Group discussions, , Web based learning	Board, Laptop, Projector, You Tube, Whatsapp, Google,

7. Teaching plan

7.1. Theory

Lecture No.	Contents
1	**Topic:I**ntroduction to GIT and pathophysiology of peptic ulcer.
2	**Topic:** Antiulcer drugs
3	**Topic:** Antiulcer drugs
4	**Topic:** Antiulcer drugs
5	**Topic:** Antiulcer drugs
6	**Topic:** Antiulcer drugs
7	**Topic:** Antiulcer drugs
	Class Test-1
8	**Topic:** Laxatives drugs
9	**Topic:** Antidiarrhoeal drugs
10	**Topic:** Appetite stimulants and suppressants.
11	**Topic:** Emetics and anti-emetics.
12	**Topic:** Chemotherapy
13	**Topic:** Chemotherapy
14	**Topic:** Sulfonamodes
15	**Topic:** Sulfonamodes
16	**Topic:** Quinolones
17	**Topic:** Beta-lactums
	Topic: Beta-lactums
18	**Topic:** Tetracyclines
19	**Topic:** Aminoglycosides
20	**Topic:** Chloramphenicol and Macrolides
21	**Topic:** Antiamoebial drugs
22	**Topic:** Anthelmintic drugs

23	**Topic:** Anthelmintic drugs
24	**Topic:** Antiviral drugs
25	**Topic:** Antiviral drugs
26	**Topic:** AntiT.B. drugs
27	**Topic:** AntiT.B. drugs
28	**Topic:** AntiT.B. drugs
29	**Topic:** Antileprotic drugs
	Class Test-2
30	**Topic:** Antimalarial drugs
31	**Topic:** Antimalarial drugs
32	**Topic:** Antimalarial drugs
33	**Topic:** Anticancer drugs
34	**Topic:** Anticancer drugs
35	**Topic:** Anticancer drugs
36	**Topic:** Immunosuppressant drugs
37	**Topic:** Immunosuppressant drugs
38	**Topic:** Hormones
39	**Topic:** Thyroid and antithyroid drugs
40	**Topic:** Thyroid and antithyroid drugs
41	**Topic:** Thyroid and antithyroid drugs
42	**Topic:** Drugs affecting Ca++ balance
43	**Topic:** Insulin
44	**Topic:** Insulin
45	**Topic:** Oral hypoglycemic drugs
46	**Topic:** Oral hypoglycemic drugs
47	**Topic:** ACTH
48	**Topic:** Corticosteroids
49	**Topic:** Corticosteroids
50	**Topic:** Corticosteroids
51	**Topic:** Androgens
52	**Topic:** Estrogens
53	**Topic:** Estrogens
54	**Topic:** Progestogens
55	**Topic:** Progestogens

7.2. Practical

Exp. No	Experiment
1	To study different drug interactions
2	To study preclinical and clinical trails and its documentation
3	To study different types of Bioassays
4	To record the dose response curve of Ach by using Frog's rectus abdominus muscle
5	To estmate the strength of an unknown sample of Ach by foue point bioassay by employing rectus abdominus muscle of Frog
6	To study the effect of physostigmine & atropine on ciliary movement in frog buccal cavity
7	Demonistration of influence of the thyroxine,TSH, and propyltiouracil on metaboloism of Rat
8	To study the CRC of oxytocin using rat uterus preparation
9	To study the mechanism of action of β lactams on β lactamases
10	To study minimum inhibitory concentraction (MIC) Of antibiotics