

East Point College of Pharmacy

East Point Campus, Jnana Prabha, Virgo Nagar Post
Bengaluru – 560049, Karnataka

Approved
by
Pharmacy Council of India, New Delhi



Affiliated
to
Rajiv Gandhi University of Health Sciences
Karnataka
Bengaluru – 560 041
India

LAB MANUAL

PHARMACOTHERAPEUTICS I
PHARM D
2nd Year

PROGRAM SPECIFIC OUTCOMES

DOCTOR OF PHARMACY

PSO1	Acquire a thorough foundational knowledge in pharmaceutical sciences, including pharmacology, pharmaceuticals, pharmaceutical chemistry, pharmacognosy and pharmaceutical analysis to excel in further academic pursuits
PSO2	Acquire and apply the pharmacotherapeutic concepts for better patient care enhancing employability across various sectors including clinical research organizations, academic and hospitals
PSO3	Equip with entrepreneurial skills and knowledge of pharmacoepidemiological studies and regulatory aspects to initiate and run successful ventures in the healthcare sector

Course:	Code: 2.6P Pharmacotherapeutics I
CO1	Able to understand the pharmacotherapy of the disease
CO2	Able to analyze and interpret case studies of various diseases
CO3	Students will develop effective communication skills by preparing and delivering case presentations on different diseases
CO4	Students will demonstrate proficiency in pharmacotherapy by engaging in viva sessions focused on the management of various diseases

SYLLABUS

Practical: 3 Hrs./Week

Practicals:

Hospital postings in various departments are designed to complement the lectures by providing practical clinical discussion; attending ward rounds; following up on the progress and changes made in drug therapy in allotted patients; and case presentations upon discharge. Students are required to maintain a record of cases presented and the same should be submitted at the end of the course for evaluation. A minimum of 20 cases covering most common diseases should be presented and recorded.

Assignments:

Students are required to submit written assignments on the topics given to them. Topics allotted should cover recent developments in drug therapy of various diseases. A minimum of THREE assignments [1500 – 2000 words] should be submitted for evaluation.

Format of the assignment:

1. Minimum & Maximum number of pages.
2. Reference(s) shall be included at the end.
3. The assignment can be a combined presentation at the end of the academic year.
4. It shall be a computer draft copy.
5. Name and signature of the student.
6. Time allocated for presentation may be 8+2 Min.

Scheme of Practical Examination:

Scheme	Sessional	Annual
Synopsis	05	15
Major Experiment	10	25
Minor Experiment	03	15
Viva	02	15
Max Marks	20	70
Duration	03 hrs	04 hrs

Note: Total sessional marks is 30 (20 for practical sessional plus 10 marks for regularity, promptness, viva voce, and record maintenance).

PRACTICAL DESCRIPTION:

Pharm D second-year students are assigned to East Point Hospital, where they rotate through various departments such as General Medicine, General Surgery, Paediatrics and Respiratory Medicine. During their posting, students are required to collect 20 patient cases, focusing on cardiovascular (CVS) disorders, respiratory disorders, endocrine disorders, and ophthalmology disorders.

Each case must be documented in the patient profile form provided by the Department of Pharmacy Practice at East Point College of Pharmacy. After collecting each case, students will discuss and present their findings and document them in the record. These documented cases will then be submitted to the respective subject in charge for review.

LABORATORY INVESTIGATIONS	NORMAL RANGE	DATE			
Blood Analysis					
Hemoglobin	12-18mg/dl				
WBC count	5000-11000cells/cumm				
Neutrophils	40-75%				
Lymphocytes	20-50%				
Monocytes	2-11%				
Eosinophils	1-6%				
Basophils	0-1%				
RBC	$X10^6/mcL$				
Packed cell volume (PCV)	35-45%				
MCV	77-95fL				
MCH	25-33pg				
MCHC	31-37g/dL				
RDW	12.8-14.2%				
Platelets	1.5-4.5lacs/cumm				
ESR	0-20mm/hr				
CRP	<5mg/L				
Urea & Creatinine Analysis					
Serum Urea	20-50mg/dl				
Serum Uric acid	M: 3.5-7.2mg/dlF: 2.6-6.9mg/dl				
Serum Creatinine	M: 0.9-1.3mg/dlF: 0.6-.1mg/dl				
Electrolytes					
Sodium	136-145meq/L				
Potassium	3.5-4.5meq/L				
Chloride	98-107meq/L				
Endocrine Test					
GRBS	70-140mg/dl				
Liver Function Analysis					
Total Bilirubin	0.3-1.2mg/dl				
Direct Bilirubin	0-0.2mg/dl				
Indirect Bilirubin	0.3-1.0mg/dl				
Total Protein	6.4-8.3g/dl				
Albumin	3.5-5.2g/dl				
Globulin	2.3-3.5g/dl				
SGOT/AST	M: up to 35IU/LF: up to 31IU/L				
SGPT/ALT	M: up to 45IU/L F: up to 34IU/L				
ALP	M: 53-128IU/LF: 42-98IU/L				
A:G Ratio	1.0-1.8g/dl				
Impression of Special Diagnostic Tests (ECG, X-RAY, MRI, USG, ENDOSCOPY):					

PATIENT DISCHARGE MEDICATIONS					
Sl. no	BRAND NAME	GENERIC NAME	DOSE	FREQ	DURATION

DRUG INTERACTIONS				
DRUG 1	DRUG 2	MECHANISM	SEVERITY	MANAGEMENT

PATIENT COUNSELING

NAME & SIGNATURE OF THE STUDENT:

SUBMISSION DATE:

SIGNATURE OF THE FACULTY:

CASE PRESENTATION FORMAT

CASE TITLE

Name of student & Reg.no
 Class
 College name

DEMOGRAPHIC DETAILS:

- Name:
- Age:
- Sex:
- Weight:
- Height:
- BMI:
- Ward:
- Dept:
- I.P no:
- DOA:
- DOD:

SUBJECTIVE EVIDENCE

- A small description about the patient and the present scenario at the time of admission
- Past medical history:
- Past medication history:
- Social history
- Menstrual history
- Systemic examination

OBJECTIVE EVIDENCE

- VITALS
- Eg:

vitals	D1	D2	D3
BP (mmHg)			
Temp (F)			
RR (b/min)			
HR (b/min)			
SPO2 (%)			

OBJECTIVE EVIDENCE

- LABORATORY INVESTIGATIONS (both normal and abnormal values)
- OTHER INVESTIGATIONS: (such as ECG, ECHO etc mainly mention impression and pictures if possible)
- Eg:

Sl.no	tests	Observed value	Reference/normal value

ASSESSMENT

SUBJECTIVE EVIDENCE	OBJECTIVE EVIDENCE
Eg: Excess thirst Increased urination	Value of related lab test

Based on subjective and objective evidence the patient was diagnosed to have ____

GOAL OF THERAPY

- Goal of therapy to be added

TREATMENT PLAN

Sl. no	Brand name	Generic name	Dose	Frequency	ROA	Indication	D1	D2	D3.....

PROGRESS REPORT

- About patient's daily progress report

DRUGS ON DISCHARGE

Sl. no	Brand name	Generic name	dose	frequency	ROA	Duration

CLINICAL PHARMACIST INTERVENTION: DRUG INTERACTION

Sl. no	Drug 1	Drug 2	type	Severity	mechanism	management

PATIENT COUNSELING

In detail

- About disease
- About drugs (counsel mainly for discharge medications)
- Life style modifications



Vision and Mission of the Institution

Vision

The East Point College of Pharmacy aspires to be a globally acclaimed institution, **recognized for excellence in** pharmaceutical education, research and nurturing students for **holistic development**.

Mission

- M1** Create pharmacy graduates through **quality education**
- M2** Promote innovation, **creativity**, and excellence **in teaching**, learning, and **research**
- M3** **Inspire** integrity, teamwork, critical thinking, **personal** development, and ethics in **students** and lay **the** foundation for lifelong learning
- M4** Serve the **healthcare, technological, scientific**, and **economic** needs of then **society**.