

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 II
PHARM D
3rd Year

PROGRAM SPECIFIC OUTCOMES	
DOCTOR OF PHARMACY	
PSO1	Acquire a thorough foundational knowledge in pharmaceutical sciences, including pharmacology, pharmaceutics, 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: 3.3P Pharmacotherapeutics II
CO1	Analyze and interpret various diseases, integrating knowledge from multiple disciplines such as pathology, pharmacology, and clinical medicine to understand the etiology, pathophysiology, clinical manifestations, and management strategies for each condition
CO2	Able to articulate complex medical information clearly and concisely, utilizing appropriate terminology and evidence-based guidelines to support the case presentations
CO3	Enhancement of critical thinking and problem-solving abilities through the analysis of complex clinical scenarios and therapeutic dilemmas encountered in the management of diseases
CO4	Critical evaluation of treatment options, including drug selection, dosing regimens, and monitoring parameters, while considering factors such as patient characteristics, comorbidities, and drug interactions

SYLLABUS

Practical: 3 Hrs./Week

Practical's:

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	03hrs	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 third-year students are assigned to East Point Hospital, where they rotate through various departments such as General Medicine, General Surgery, Paediatrics, Dialysis unit, and TB unit. During their posting, students are required to collect 20 patient cases, focusing on infectious disorders, musculoskeletal disorders, renal disorders, dermatology disorders and oncology disorders. Students will also be analyzing the patient case profile to find any medication error.

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.

PATIENT PROFILE FORM

PATIENT DETAILS					
Name:	Age:	Gender:	Wt:	Ht:	BMI:
IP No:	Dept:	Ward:	DOA:	DOD:	
PATIENT COMPLAINTS					
PHYSICAL EXAMINATION:					
PAST MEDICAL HISTORY:			ALLERGY if any:		
PAST MEDICATION HISTORY:					
SOCIAL HISTORY		Education:		Occupation:	
Smoker : Y/N		Alcoholic: Y/N		Marital status:	
Tobacco in any form: Y/N		Any other:			
DIAGNOSIS:					
LABORATORY INVESTIGATIONS					

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: 0.6-1.1mg/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:

EAST POINT COLLEGE OF PHARMACY

Medication Error Reporting Form

Please tick the appropriate box. All fields must be filled except details of reporter which is optional.

Details of Reporter :

Date of event: _____	Location of event:			
Time of event: _____	Ward	OPD	Pharmacy	Others

Type of error:	Patient details
<input type="checkbox"/> Prescribing <input type="checkbox"/> Dispensing <input type="checkbox"/> Administration <input type="checkbox"/> Transcription	Age: _____ Gender: _____ Diagnosis: _____

Description of the event:	Did the error reach the patient?
	<input type="checkbox"/> <input type="checkbox"/> Yes No

Details of medicines involved in the event: [dosage form, Generic Name , Strength Frequency]

Intervention done:

- DIFFERENTIAL DIAGNOSIS

PROGRESS REPORT

- About patient's daily progress report

DRUGS ON DISCHARGE

Sl. no	Brand name	Generic name	dose	frequency	ROA	Duration

ASSESSMENT

Sno	Test Ordered	Objective /Purpose to be correlated with possible sign/symptom findings
1	CBC	This was performed to evaluate RBS indices since the patient complains or shows signs of Anemia etc...
2	Lipid profile	xxxxx
3	Etc & so on	xxxxxx

ASSESSMENT

DIAGNOSIS:

EVIDENCE	DIAGNOSIS

ASSESSMENT

- Summarized Problems and issues identified during therapy
- Drug interactions/ADR/medication error etc....

RECOMMENDATIONS

- Recommendations to the health care providers (any changes/suggestions)
- Recommendations to the patient (patient counseling)

MONITORING PARAMETERS

Monitoring parameters for disease

Monitoring parameters for drugs



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.**