Course Outcome D. Pharm. New Syllabus implemented from 2021-2022

D Pharm I Year					
Course					
code/ Course name	CO Number	Course Outcome			
ER20- 11T Pharmace utics –	CO11T.1	Describe about the different dosage forms and their formulation aspects			
	CO11T.2	Explain the advantages, disadvantages, and quality control tests of different dosage forms			
Theory	CO11T.3	Discuss the importance of quality assurance and good manufacturing practices			
ER20-	CO11P.1	Calculate the working formula from the given master formula			
11P	CO11P.2	Formulate the dosage form and dispense in an appropriate container			
Pharmace	CO11P.3	Design the label with the necessary product and patient information			
utics – Practical	CO11P.4	Perform the basic quality control tests for the common dosage forms			
ER20- 12T	CO12T.1	Describe the chemical class, structure and chemical name of the commonly used drugs and pharmaceuticals of both organic and inorganic nature			
Pharmace utical	CO12T.2	Discuss the pharmacological uses, dosage regimen, stability issues and storage conditions of all such chemical substances commonly used as drugs			
Chemistr y – Theory	CO12T.3	Describe the quantitative and qualitative analysis, impurity testing of the chemical substances given in the official monographs Identify the dosage form & the brand names of the drugs and pharmaceuticals popular in the marketplace			
Theory	CO12T.4				
ER20-	CO12P.1	Perform the limit tests for various inorganic elements and report			
12P	CO12P.2	Prepare standard solutions using the principles of volumetric analysis			
Pharmace utical	CO12P.3	Test the purity of the selected inorganic and organic compounds against the monograph standards			
Chemistr	CO12P.4	Synthesize the selected chemical substances as per the standard synthetic scheme			
y – Practical	CO12P.5	Perform qualitative tests to systematically identify the unknown chemical substances			
ER20-	CO13T.1	Identify the important/common crude drugs of natural origin			
13T	CO13T.2	Describe the uses of herbs in nutraceuticals and cosmeceuticals			
Pharmaco	CO13T.3	Discuss the principles of alternative system of medicines			
gnosy – Theory	CO13T.4	Describe the importance of quality control of drugs of natural origin			
ER20- 13P CO13P.1 Identify the given crude drugs based characteristics		Identify the given crude drugs based on the morphological characteristics			
Pharmaco	CO13P.2	Take a transverse section of the given crude drugs			

gnosy –	CO13P.3	Describe the anatomical characteristics of the given crude drug under		
Practical		microscopical conditions		
	CO13P.4	Carry out the physical and chemical tests to evaluate the given crude		
		drugs		
ER20-	CO14T.1	Describe the various organ systems of the human body		
14T	CO14T.2	Discuss the anatomical features of the important human organs and		
Human		tissues		
Anatomy	CO14T.3	Explain the homeostatic mechanisms regulating the normal		
&	CO141.3	physiology in the human system		
Physiolog		Discuss the significance of various vital physiological parameters of		
y –	CO14T.4	the human body		
Theory		•		
ER20-	CO14P.1	Perform the haematological tests in human subjects and interpret the		
14P		results		
Human	CO14P.2	Record, monitor and document the vital physiological parameters of		
Anatomy		human subjects and interpret the results		
&	CO14P.3	Describe the anatomical features of the important human tissues		
Physiolog		under the microscopical conditions		
y –	CO14P.4	Discuss the significance of various anatomical and physiological		
Practical		characteristics of the human body		
	CO15T.1	Discuss about roles of pharmacists in the various national health		
ER20-		programs		
15T	CO15T.2	Describe various sources of health hazards and disease preventive		
Social		measures		
Pharmacy	CO15T.3	Discuss the healthcare issues associated with food and nutritional		
- Theory		substances		
Theory	CO15T.4	Describe the general roles and responsibilities of pharmacists in		
		public health		
ED20	CO15P.1	Describe the roles and responsibilities of pharmacists in various		
ER20- 15P Social Pharmacy		National health programs		
	CO15P.2	Design promotional materials for public health awareness		
	CO15P.3	Design promotional materials for public health awareness		
	CO15P.4	Describe various health hazards including microbial sources		
Practical	CO15P.5	Advice on preventive measures for various diseases		
Tuctical	CO15P.6	Provide first aid for various emergency conditions		

Course Outcome Diploma PCI

D Pharm II Year				
Course code/ Course name	CO Number	Course Outcome		
ER20-21T Pharmacol	CO21T.1	Describe the basic concepts of pharmacokinetics and pharmacodynamics		
	CO21T.2	Enlist the various classes and drugs of choices for any given disease condition		
ogy – Theory	CO21T.3	Advice the dosage regimen, route of administration and contraindications for a given drug		
	CO21T.4	Describe the common adverse drug reactions		
	CO21P.1	Study and report the local anaesthetic, mydriatic and mitotic effects of the given drug on the rabbit eye		
ER20-21P Pharmacol	CO21P.2	Choose appropriate animal experiment model to study the effects of the given drugs acting on the central nervous system and submit the report		
ogy – Practical	CO21P.3	Perform the effects of given tissues (simulated) on isolated organs / tissues and interpret the results		
	CO21P.4	Interpret the dose dependent responses of drugs in various animal experiment models		
ER20-22T Communit	CO22T.1	Describe the establishment, legal requirements, and effective administration of a community pharmacy		
у	CO22T.2	Professionally handle prescriptions and dispense medications		
Pharmacy &Manage	CO22T.3	Counsel patients about the disease, prescription and or non-prescription medicines		
ment – Theory	CO22T.4	Perform basic health screening on patients and interpret the reports in the community pharmacy settings		
ER20-22P	CO22P.1	Handle and fill prescriptions in a professional manner		
Communit	CO22P.2	Counsel patients on various diseases and minor ailments		
y Pharmacy	CO22P.3	Counsel patients on prescription and or non-prescription medicines		
&	CO22P.4	Design and prepare patient information leaflets		
Manageme nt – Practical	CO22P.5	Perform basic health screening tests		
ER20-23T	CO23T.1	Describe the functions of biomolecules		
Biochemist	CO23T.2	Discuss the various functions of enzymes in the human system		
ry & Clinical	CO23T.3	Explain the metabolic pathways of biomolecules in both physiological and pathological conditions		
Pathology	CO23T.4	Describe the principles of organ function tests and their clinical		

- Theory		significances		
	CO23T.5	Determine the biomolecules / metabolites in the given biological		
		samples, both qualitatively and quantitatively		
	CO23T.6	Describe the clinical pathology of blood and urine		
ER20-23P	CO23P.1	Qualitatively determine the biomolecules / metabolites in the given		
Biochemist		biological samples		
ry & Clinical Pathology – Practical	CO23P.2	Determine the normal and abnormal constituents in blood and urine samples and interpret the results of such testing		
	CO24T.1	Help assessing the subjective and objective parameters of patients in common disease conditions		
ER20-24T Pharmacot herapeutics – Theory	CO24T.2	Assist other healthcare providers to analyse drug related problems and provide therapeutic interventions		
	CO24T.3	Participate in planning the rational medicine therapy for common diseases		
	CO24T.4	Design and deliver discharge counselling for patients		
ER20-24P	CO24P.1	Write SOAP (Subjective, Objective, Assessment and Plan) notes for the given clinical cases of selected common diseases		
Pharmacot herapeutics – Practical	CO24P.2	Counsel the patients about the disease conditions, uses of drugs, methods of handling and administration of drugs, life-style modifications, and monitoring parameters		
ED 20. 25T	CO25T.1	Explain about the basic concepts of hospital pharmacy administration		
ER20-25T Hospital &	CO25T.2	Manage the supply chain and distribution of medicines within the hospital settings		
Clinical Pharmacy	CO25T.3	Assist the other healthcare providers in monitoring drug therapy and address drug related problems		
– Theory	CO25T.4	Interpret common lab investigation reports for optimizing drug therapy		
	CO25P.1	Professionally handle and answer the drug information queries		
ER20-25P Hospital &	CO25P.2	Interpret the common laboratory reports		
Clinical Pharmacy – Practical	CO25P.3	Report suspected adverse drug reactions using standard procedures		
	CO25P.4	Understand the uses and methods of handling various medical/surgical aids and devices		
	CO25P.5	Interpret and report the drug-drug interactions in common diseases for optimizing the drug therapy		
ER20-26T	CO26T.1	Describe the history and evolution of pharmacy law in India		

Pharmacy	CO26T.2	Interpret the act and rules regulating the profession and practice of
Law &	CO201.2	pharmacy in India
Ethics	CO26T.3	Discuss the various codes of ethics related to practice standards in
	CO201.3	pharmacy
	CO26T.4	Interpret the fundamentals of patent laws from the perspectives of
		pharmacy