MEERUT INSTITUTE OF TECHNOLOGY
(D. PHARM. COURSE OUTCOMES)

S. No.	Subject Code	Subject Name	Outcomes	
1	ER20-11T	Pharmaceutics Theory	CO1	Outline the scope of the pharmacy profession in India in relation to the Education Industry, Pharmacy practice, and other Professional associations
			CO2	Summarize various pharmaceutical and non-pharmaceutical ingredients used in the preparation and packaging of the formulation.
			CO3	Classify the different dosage forms based on their usage and the route of administration.
			CO4	Make use of various formulation techniques for the preparation of dosage forms.
			CO5	Categorize the Quality assurance and Quality control parameters in relation to different pharmacopeias and Manufacturing practices.
2	ER20-11P	Pharmaceutics Practical	CO1	Make use of the standard formula for the calculation of the working formula.
			CO2	Develop the different dosage forms and dispense them in appropriate containers.
			CO3	Evaluate various Quality control parameters of different dosage forms.
			CO4	Design the label with the necessary product and patient information
3	ER20-12T	Pharmaceutical Chemistry Theory	CO1	Interpret the chemical class, structure, chemical name of the commonly used drugs and pharmaceuticals of both inorganic and organic nature
			CO2	Outline the pharmacological uses, dosage rgimen, stability issues and storage conditions of all such chemical substances commonly used as drugs
			CO3	Apply quantitative and qualitative analysis , impurity testing of the chemical substances/ pharmaceuticals
			CO4	Identify the dosage form & brand name of the drugs and pharmaceuticals
			CO5	Assess various parameters related to analysis of Pharmaceutical compounds
4	ER20-12P	Pharmaceutical Chemistry Practical	CO1	Demonstrate the method of preparation of organic compounds
			CO2	Identify qualitatively the various inorganic & organic Anions & Cations and unknown chemical substances
			CO3	Apply the various fundamentals of preparative organic chemistry and volumetric analysis
			CO4	Make use of various Identification test for determining the purity of inorganic and organic compounds
			CO5	Examine the impurity level by using limit test for various inorganic elements and report
5	ER20-13T	Pharmacognosy Theory	CO1	Classify the various categories of herbal drugs used in pharmaceuticals, nutraceuticals and cosmeceuticals.
			CO2	Illustrate biological sources and pharmaceuticals application of various categories of herbal drugs used in traditional systems of medicines.
			CO3	Outline the macroscopic and microscopic characteristics of herbal drugs used in various system of medicines
			CO4	Identify chemical constituents of selected crude drugs and their therapeutic efficacy in common disease and ailments
			CO5	Analyze various herbal drugs on the basis of phytoconstituents and their significance.
6	ER20-13P	Pharmacognosy Practical	CO1	Identify the crude drugs based on the morphological characteristics
			CO2	Analyze the anatomical characteristics of the crude drugs under microscopical conditions
			CO3	Evaluate various crude drugs based on physical tests.
			CO4	Evaluate various crude drugs based on chemical tests.

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7	ER20-14T	Human Anatomy & Physiology – Theory	CO1	Understand the elementary concepts /principles, terminology and the mechanism involved in human anatomy and physiology
			CO2	Demonstrate the various organ systems of the human body
			CO3	Explain the anatomical features of the important human tissue and organ
			CO4	Interpret the homeostatic mechanisms regulating the normal physiology in the human system.
			CO5	Utilize the significance of various vital physiological parameters of the human body
8	ER20-14P	Human Anatomy & Physiology – Practical	CO1	Demonstrate various systems and organs with the help of charts, models and specimen
			CO2	Identify anatomical features of different tissues of human system
			CO3	Examine various physiological functions of human system and record of results
			CO4	Determine various physiological parameters of human system
			CO5	Evaluate various pathological conditions based on heamtological observations
9	ER20-15T	Social Pharmacy – Theory	CO1	Outline the fundamental principal of social pharmacy.
			CO2	Illustrate the basic concept of pharmacoeconomics .
			CO3	Identify general roles and responsibility of pharmacist in public health and National health programme.
			CO4	Analyze various healthcare issues associated with food and nutritional substance.
			CO5	Categorize various health hazards and disease preventive majors.
10	ER20-15P	Social Pharmacy – Practical	CO1	Identify the roles and responsibility of pharmacist in various national health programmes.
			CO2	Make use of first Aid for various emergencies.
			CO3	Utilize preventive measures for various diseases.
			CO4	Categorize the various health hazards including microbial sources.
11	ER20-21T	Pharmacology Theory	CO1	Summarize the basic concept of pharmacokinetic and pharmacodynamic.
			CO2	Interpret the various class and pharmacological uses of drugs.
			CO3	Outline the mechanism of action and pharmacological action of various classes of drugs.
			CO4	Make use of fundamental principle of pharmacology for does regimen, dose indication and contraindication of drugs.
			CO5	Categories various route of drug administration and dosage forms.
12	ER20-21P	Pharmacology Practical	CO1	Utilize various techniques of experimental pharmacology.
			CO2	Make use of various instruments in experimental pharmacology.
			CO3	Utilize various animals in experimental pharmacology.
			CO4	Analyze effect of drugs on laboratory animals.

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13	ER20-22T	Community Pharmacy & Management –Theory	CO1	Explain establishment, legal requirement, responsibilities and effective administration of a community pharmacy
			CO2	Outline the principle and procedures in patient counseling, dispensing medication, and community pharmacy management.
			CO3	Make use of communication skills in patient counseling for effective community pharmacy management
			CO4	Inspect various parts of prescription and its errors for dispensing of prescribed and OTC medictaions
			CO5	Analyze the reports of patients for effective health screening in community pharmacies
14	ER20-22P	Community Pharmacy & Management –Practical	CO1	Inspect various parts of prescription and its errors for dispensing of prescribed and OTC medictaions
			CO2	Analyze the reports of patients for effective health screening in community pharmacies.
			CO3	Make use of the correct administration techniques for different dosage form.
			CO4	Make use of dispensing labels and auxiliary labels for the prescribed medicines.
			CO5	Examine the patient history and provide counseling for major and minor ailments.
15	ER20-23T	Biochemistry & Clinical Pathology – Theory	CO1	Explain the basic concepts of biomolecules their functions and metabolic pathway
			CO2	Classify various biomolecules based on their chemical biological nature
			CO3	Identify the nutritional importance and deficiency symptoms of biomolecules and nutritional supplement
			CO4	Compare biomolecules on basis of their qualitative and biological significance
			CO5	Analyse the clinical significance of various pathological observations of blood and urine
16	ER20-23P	Biochemistry & Clinical Pathology – Practical	CO1	Compare biomoleciles on the basic of their qualitative and biological significance.
			CO2	Analyze the clanical significance of various pathological observation of blood and urine.
			CO3	Analyze various macro and microbiomoleculs qualitatively.
			CO4	Examin the hydrolysis of starch from acid and salivary amylase enzyme.
			CO5	Determine various constituents present in blood / serum.
17	ER20-24T	Pharmacotherapeutics – Theory	CO1	Summarize basic concepts of pharmacotherapeutics with respect to various disease and disorders.
			CO2	Classify the ailments based on etiopathogenesis.
			CO3	Plan the non-pharmacological and pharmacological management strategies of various diseases.
			CO4	Analyze the clinical manisfestation of common diseases.
18	ER20-24P	Pharmacotherapeutics – Practical	CO1	Analyze SOAP notes for the given clinical cases of cardiovascular diseases.
			CO2	Analyze SOAP notes for the given clinical cases of CNS diseases.
			CO3	Analyze SOAP notes for the given clinical cases of respiratory and infectious diseases.
			CO4	Analyze SOAP notes for the given clinical cases of blood and dermatological diseases.
			CO5	Evaluate the real/hypothetical clinical cases and calculate the doses for pathological condition.

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19	ER20-25T	Hospital & Clinical Pharmacy – Theory	CO1	Explain organizational and functional guidelines of hospital pharmacy administration
			CO2	Summarize clinical pharmacy terminology and role of clinical pharmacist in management of the same.
			CO3	Outline the concepts of medication errors,poisoning and pharmacovigilance.
			CO4	Make the use of the principles and standard involved in inventory control and drug distribution.
			CO5	Identification of disease states on the basis of clinical laboratory tests
20	ER20-25P	Hospital & Clinical Pharmacy – Practical	CO1	Demonstrate various aids and devices of clinical and surgical application.
			CO2	Make use of various objects stimulation tools for clinical and surgical procedures.
			CO3	Utilizing primary ,secondary and tertirary resources for addressing drugs information queries.
			CO4	Inspect various cases for drug , drug intractions and ADR reporting.
21	ER20-26T	Pharmacy Law & Ethics	CO1	Summarize the basic fundamentals like history, introduction, amendments & overview of various acts implemented in pharmacy profession in India.
			CO2	Outline the objectives, definitions, administrative bodies, schedules, guidelines, offences & penalties of various acts implemented in pharmacy profession in India.
			CO3	Classify various drug control authority and legal procedures involved in pharmacy profession in India.
			CO4	Make use of different schedules for conduct of ethical pharmacy standards in India.
			CO5	Compare guidelines and amendments of various acts for standard pharmacy practice in India.

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