

**GIET SCHOOL OF PHARMACY  
COURSE OUTCOME**

**FIRST YEAR PHARM. D**

<b>Course Code</b>	<b>Name of the Course</b>	<b>Course outcome</b>
1.1	Human Anatomy and Physiology	Students learn the basic concepts of human organ, location, function, parts with model
1.2	Pharmaceutics	Students will be exposed to various dosage forms. Preparation of emulsion, suspension.
1.3	Medicinal Biochemistry	Students will understand the biochemical facts and principles related to diagnosis
1.4	Pharmaceutical Organic Chemistry	Students will develop practical skills to meet industrial requirement
1.5	Pharmaceutical Inorganic Chemistry	It deals with fundamentals of analytical chemistry and also study of inorganic pharmaceutical and their monographs.
1.6	Remedial Biology	Students learn the basic aspects of botany and zoology and their relation with pharmaceutical sciences.

1.7	Remedial Mathematics	Know about the theory and their application in pharmacy
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### SECOND YEAR PHARM. D

Course Code	Name of the Course	Course outcome
2.1	Pathophysiology	Students will understand about pathogenesis of various diseases including symptoms, etiology etc
2.2	Pharmaceutical Microbiology	Students gain knowledge about various staining procedures, bacteria, viruses and various microorganisms. Fermentation process, micro biological bio assays, vaccines etc.
2.3	Pharmacognosy and Phytopharmaceuticals	Students gain knowledge over medicinal uses of various phytopharmaceuticals. Also learn the systematic pharmacognostical study of crude drugs.
2.4	Pharmacology - I	Drugs in CNS, CVS, General Pharmacology, autocooids can be learned

2.5	Community Pharmacy	Students will be able to do community pharmacy activities like patient counselling, health screening services and creating awareness about various diseases
2.6	Pharmacotherapeutics - I	Students will be exposed to decide therapy for special populations and cardiac respiratory and endocrine disorders

### THIRD YEAR PHARM. D

Course Code	Name of the Course	Course outcome
3.1	Pharmacology - II	The subject will help the students to learn about drugs acting on blood, chemotherapy, anti-microbial agents, advanced gene therapy, immunotherapy
3.2	Pharmaceutical Analysis	The course will help in imparting theoretical aspects, instrumentation and application of various techniques like spectroscopy, chromatography etc
3.3	Pharmacotherapeutics - II	Students will be knowing about the pathophysiology and management of diseases it will be helpful to optimize the therapy for better outcomes

3.4	Pharmaceutical Jurisprudence	Upon completion the students will have the knowledge of professional ethics, pharmaceutical legislations in India. Also about various acts and rules such as D& C act, DPCO, patent design act. Also about other laws prescribed by PCI from time to time.
3.5	Medicinal Chemistry	The subject helps the students for drug design and development process and to understand the SR, MOA, Dose, Uses including synthesis of medicinal compounds
3.6	Pharmaceutical Formulations	Students can learn about basics on drug formulations and various approaches of dosage form design

#### FOURTH YEAR PHARM. D

Course Code	Name of the Course	Course outcome
4.1	Pharmacotherapeutics – III	Gaining knowledge regarding the etiology, pathogenesis, signs and symptoms, diagnosis and management of various pathological disease conditions. Special preference to special population such as pediatrics, geriatrics, immunocompromised patients.
4.2	Hospital Pharmacy	Students will be able to do hospital pharmacy services to both inpatient and out patients like dispensing, distribution, stocking and billing

4.3	Clinical Pharmacy	Students will be able to do patient counselling, ward round participation, ADR reporting, interpretation. Various types of pharmaceutical care
4.4	Biostatistics and Research Methodology	Study on various methodologies like Mean, Median, mode , SD, ANOVA, Chi square test, T test, F Test.
4.5	Biopharmaceutics and Pharmacokinetics	The students will have e the knowledge on basic concepts in biopharmaceutics, pharmacokinetics such as ADME, application of pharmacokinetics
4.6	Clinical Toxicology	Candidates can be able to know the knowledge of toxic symptoms produced due to intake of poisonous drugs and treatment

### **FIFTH YEAR PHARM. D**

<b>Course Code</b>	<b>Name of the Course</b>	<b>Course outcome</b>
5.1	CR-Clinical Research	Gains knowledge regarding the pre-clinical studies, clinical studies scenario in India and other countries. Guidelines for clinical trials, designing of clinical trial documents and the ethical values to be observed during clinical trials.
5.2	PEPE - Pharmacoepidemiology and Pharmacoeconomics	Students will be knowing about the prevalence and incidence of disease conditions and economic burden of the diseases

5.3	CPPDM - Clinical Pharmacokinetics and Pharmacotherapeutic Drug Monitoring	Students will be exposed to regulations, drug-drug interactions, positive therapeutic outcomes by conduction therapeutic drug monitoring for various drugs
5.4	Clerkship	Gain knowledge regarding the collection of patient medication history, interview, provisional diagnosis critical analysis of prescriptions, assessment of drug-drug interactions, adverse drug interactions and bed side patient counseling
6. Internship		Students will be able to do critical analysis of prescriptions providing pharmacist interventions, drug information services, assessment of drug-drug interactions, adverse drug reactions and bed side patient counselling.
6. Project		<p>All Pharm D students must complete a research project in their 5ht year as a part of their curriculum</p> <p>Students will gain knowledge on research methodology, various types of clinical study design, informed consent and good clinical practice guidelines</p> <p>Publishing their research project will give additional benefit to their careers</p>

Case Presentation	The pharmacotherapy case presentations has a specific format i.e. SOAP ( subjective, objective, assessment and plan) Oral presentation about the real time cases will give knowledge to make patient specific decisions to produce better outcome and to increase the quality of life of patients.
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