

KANPUR INSTITUTE OF TECHNOLOGY AND PHARMACY

Laboratory Name: Pharmacology Lab – III

Lab No: P-402

Course Name: Human Anatomy and Physiology II

Course Code: BP207P

Year/Sem: 1st /II

No of Students: 99

S.No	Course Outcome
CO1	Understand the construction, working, care and handling of instruments, glassware's and equipment's required for practical.
CO2	Perform the hematological tests like blood cell counts, hemoglobin estimation, bleeding/clotting time etc and also record blood pressure, heart rate, pulse and respiratory volume.
CO3	Explain working pattern of different organs of each system.
CO4	Describe the interlinked mechanisms in the maintenance of normal functioning (homeostasis) of human body and determine the techniques for the identification, counting of various integral components of the body.

KANPUR INSTITUTE OF TECHNOLOGY AND PHARMACY

Laboratory Name: Pharmaceutical Chemistry Lab-II

Lab No: P-102

Course Name: Pharmaceutical Organic Chemistry I

Course Code: BP208P

Year/Sem: 1st/ II

No of Students: 99

S.No	Course Outcome
CO1	Students should be able to preliminary test for organic compounds
CO2	Students should be able to detect the elements like Nitrogen, Sulphur and Halogen by Lassaigne's test.
CO3	Students should be able to evaluate the Solubility test and functional group test.
CO4	Students should be able to determine the Melting point/Boiling point of organic compounds

KANPUR INSTITUTE OF TECHNOLOGY AND PHARMACY

Laboratory Name: Pharmaceutical Chemistry Lab-1

Lab No:P-104

Course Name: Biochemistry

Course Code: BP209P

Year/Sem: 1st/ II

No of Students: 99

S.No	Course Outcome
CO1	To understand qualitative and quantitative analysis of Bio molecules like carbohydrates.
CO2	To understand qualitative and quantitative analysis of bio molecules like amino acids, proteins and lipids.
CO3	Identification tests for Protein.
CO4	Determination of Blood Sugar, Blood creatinine & salivary amylase activity.

KANPUR INSTITUTE OF TECHNOLOGY AND PHARMACY

Laboratory Name: Computer Lab-I

Lab No:P-201

Course Name: Computer Applications in Pharmacy

Course Code: BP210P

Year/Sem: 1st/ II

No of Students: 99

S.No	Course Outcome
CO1	Retrieve the information of a drug and its adverse effects using online tools.
CO2	Able to acquire knowledge of computer application in clinical studies and use of database.
CO3	Work with MS access, Creating labels and database regarding patient information.
CO4	Exporting tables, queries, forms and reports to web pages and HTML

KANPUR INSTITUTE OF TECHNOLOGY AND PHARMACY

Laboratory Name: Pharmaceutical chemistry Lab –IV

Lab No: P-403

Course Name: Medicinal Chemistry I

Course Code: BP406P

Year/Sem: 2nd /IV

No of Students: 105

S.No	Course Outcome
CO1	To synthesize medicinal compounds.
CO2	To Estimation of partition coefficient of drugs.
CO3	To Estimate Assay/ purity of drug.

KANPUR INSTITUTE OF TECHNOLOGY AND PHARMACY

Laboratory Name: Pharmaceutics Lab – II

Lab No: P-401

Course Name: Physical Pharmaceutics II

Course Code: BP407P

Year/Sem: 2nd / IV

No of Students: 105

S.No	Course Outcome
CO1	Learn the formulation concepts of pharmaceutical suspensions and emulsions and their stability problems.
CO2	Acquire working knowledge and understanding the concepts of colloids and its applications.
CO3	Study the reaction kinetics, reaction order, factors affecting the rate of the reactions.
CO4	Have basic understanding of degradation and stabilization of medicinal agents as well as accelerated stability testing.

KANPUR INSTITUTE OF TECHNOLOGY AND PHARMACY

Laboratory Name: Computer Lab-I/ Pharmacology Lab - I

Lab No: P-201/P407

Course Name: Pharmacology I

Course Code: BP408P

Year/Sem: 2nd/ IV

No of Students: 105

S.No	Course Outcome
CO1	Introduction to experimental pharmacology. Basics about animal ethics-CPCSEA, routes of administration and common laboratory techniques.
CO2	Describe the experimentation involving hepatic microsomal enzyme inducers, and drugs affecting ciliary motility of frog esophagus and rabbit eye.
CO3	Discuss and describe the effects of drugs on experimental models such as rota rod, actophotometer, electroconvulsimeter, catatonic, anxiolytic, and local anesthetic effects.

KANPUR INSTITUTE OF TECHNOLOGY AND PHARMACY

Laboratory Name: Pharmacognosy Lab

Lab No:P-408

Course Name: Pharmacognosy I

Course Code: BP409P

Year/Sem: 2nd / IV

No of Students: 105

S.No	Course Outcome
CO1	Extend scope of pharmacognosy classify crude drug summarize adulteration and its application.
CO2	Explain cell differentiation outline ergastic cell content and alternative system of medicine.
CO3	Summarize different plant and metabolite extend shikimic acid pathway.
CO4	Outline study of organized crude drug .

KANPUR INSTITUTE OF TECHNOLOGY AND PHARMACY

Laboratory Name: Pharmaceutical chemistry Lab –IV

Lab No: P-403

Course Name: Medicinal Chemistry III

Course Code: BP607P

Year/Sem: 3rd /VI

No of Students: 99

S.No	Course Outcome
CO1	To study different laboratories techniques like recrystallization, distillation and safety measures in chemistry laboratory.
CO2	To synthesize drugs and intermediates of different class of drugs.
CO3	To prepare the medicinally important compound by microwave synthesis and Drawing structure and reactions using Chem draw.
CO4	To determine physicochemical properties like logP, clogP, MR, Molecular weight.

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Laboratory Name: Computer Lab-I/ Pharmacology Lab - I

Lab No: P-201/P407

Course Name: Pharmacology III

Course Code: BP608P

Year/Sem: 3rd/ VI

No of Students: 96

S.No	Course Outcome
CO1	To Gain knowledge of effect of drug on different organs of animals, toxicity study and biostatistical method.
CO2	To understand the practical aspects of evaluation of various pharmacological activities in animal model by simulated experiments by software and videos.
CO3	Able to apply proper biostatistics method for data interpretation and calculate.
CO4	screening the drugs for gastrointestinal effect, hypoglycemic effect and anti-allergic effect and able to correlate clinical, bio parameter with disease.

KANPUR INSTITUTE OF TECHNOLOGY AND PHARMACY

Laboratory Name: Pharmacognosy Lab

Lab No: P-408

Course Name: Herbal Drug Technology

Course Code: BP609P

Year/Sem: 3rd /VI

No of Students: 96

S.No	Course Outcome
CO1	Preliminary phytochemical screening of crude drugs.
CO2	Determination of the alcohol content.
CO3	Evaluation of excipients of natural origin.
CO4	Preparation of herbal products.