
Course Outcomes (COs)

Program: B pharm

Batch: 6th semester



Nirmala College of Pharmacy, Muvattupuzha

Muvattupuzha P.O Ernakulam District Kerala, India, Pin:686661

Email : info@nirmalacp.org, Phone : 04852836888

Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2019-2023
Semester	6
Subject	Medicinal Chemistry III – Theory

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO1	Understand the importance of drug design and different techniques of drug design.		Create	Namitha T H
2	CO2	Understand the chemistry of drugs with respect to their biological activity.		Understand	Namitha T H
3	CO3	Know the metabolism, adverse effects and therapeutic value of drugs		Remember	Namitha T H
4	CO4	Know the importance of SAR of drugs.		Analyze	Namitha T H
5	CO5	Know the importance of Synthesis and mechanism of action of drugs.		Create	Namitha T H

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2019-2023
Semester	6
Subject	Pharmacology III – Theory

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO 1	understand the pharmacology of drugs acting on Respiratory system and difference	Understand the basic idea for the drug of choice for various respiratory tract disorders.		Hema S
2	CO 2	Comprehend the principles of chemotherapy and treatment of various infections	To understand the goal of chemotherapy on pharmacological basis		Hema S
3	CO 3	Appreciate correlation of pharmacology with related medical sciences	To provide a core of fundamental information and the general principles underlying the use of pharmacological agents in the practice of medicine.		Hema S
4	CO 4	Understand the mechanism of drug action and its relevance in the treatment of different infectious diseases			Hema S
5	CO 5	Helps in correlating between pharmacology of a disease and its mitigation or cure.	Understanding the selection of drugs		Hema S
6	Elaborate the correlation of pharmacology with gene therapy	CO 6	Applying concepts developed for chemical drugs to extremely complex biological product		Hema S

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha		
Course	B Pharm		
Batch	2019-2023		
Semester	6		
Subject	Herbal Drug Technology – Theory		

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	BP 603.1	Utilize the knowledge of Herbal raw materials, WHO and ICH guidelines in phytochemical research fields and herbal drug industry.		Analyze	Prasanth B
2	BP 603.2	Formulate and develop herbal products, cosmetics and nutraceuticals		Create	Prasanth B
3	BP 603.3	Appreciate patenting of herbal drugs		Apply	Prasanth B
4	BP 603.4	Understand the herb-drug interactions		Apply	Prasanth B

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2019-2023
Semester	6
Subject	Biopharmaceutics and Pharmacokinetics – Theory

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO1	Describe the concept behind the biopharmaceutics, pharmacokinetics and design of dose and dosage regimen	Basics ADME	Understand	Dhanish Joseph
2	CO2	Use plasma data and derive the pharmacokinetic parameters to describe the process of drug absorption, distribution, metabolism and elimination	Pharmacokinetics	Apply	Dhanish Joseph
3	CO3	Design and evaluate dosage regimens of the drugs using pharmacokinetic and biopharmaceutic parameters.	Pharmacokinetics	Evaluate	Dhanish Joseph
4	CO4	Critically evaluate biopharmaceutic studies involving drug product equivalency and Assess the reason for poor bioavailability of drug and methods to overcome the poor bioavailability	Bioavailability and bioequivalence	Evaluate	Dhanish Joseph
5	CO5	Detect potential clinical pharmacokinetic problems and apply basic pharmacokinetic principles to solve them	Pharmacokinetics	Evaluate	Dhanish Joseph

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha		
Course	B Pharm		
Batch	2019-2023		
Semester	6		
Subject	Pharmaceutical Biotechnology – Theory		

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO1	To explain the importance of immobilized enzymes in the microbial productions like fermentation, antibiotics		Understand	Junia George
2	CO2	To identify the requisities for recombinant technology and describe its applications in the field of biotechnology		Apply	Junia George
3	CO3	To comment on the production of monoclonal antibodies and its utility in pharmaceuticals		Understand	Junia George
4	CO4	To explain the fermentation process and its applicability in the production of antibiotics, enzymes		Understand	Junia George

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2019-2023
Semester	6
Subject	Quality Assurance – Theory

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO1	Demonstrate the importance of quality in pharmaceutical products and importance of Good practices and regulatory affairs such as GMP, GLP, TQM etc		Understand	Aneeta Rose Varghese
2	CO2	understand the activities and responsibilities of QA & QC departments		Understand	Aneeta Rose Varghese
3	CO3	understand the scope of quality certifications such as ICH, ISO and NABL		Understand	Aneeta Rose Varghese
4	CO4	Explain about validation and Calibration and its importance in QA and QC		Understand	Aneeta Rose Varghese
5	CO5	Various aspects of Documentation in pharmaceutical Industry		Apply	Aneeta Rose Varghese

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2019-2023
Semester	6
Subject	Medicinal chemistry III – Practical

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO 1	Understand and carryout the preparation of important medicinal compounds or intermediate by conventional method and their characterization.		Create	Namitha T H
2	CO2	Able to find out the percentage purity of given sample of medicinal compounds along with sandardization.		Understand	Namitha T H
3	CO3	Able to sketch chemical structures using softwares/online tools.		Create	Namitha T H
4	CO4	Able to determine physicochemical properties such as logP, clogP, Molecular weight, hydrogen bond acceptor ,donor of certain class of drugs using drug design softwares..		Apply	Namitha T H
5	CO5	Able toanalyse the drug likeliness screening (Lipinski rue of 5)		Understand	Namitha T H

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2019-2023
Semester	6
Subject	Pharmacology III – Practical

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO 1	Understand about the basic instruments used in experimental pharmacology and their assembling and uses		Remember	Hema S
2	CO 3	Learn and understand the common experiments performed in laboratory rats, frogs, rabbits etc and the step by step procedures of conducting the experiments using computer softwares.		Create	Hema S
3	CO 2	Know about the commonly used laboratory animals and how to maintain them. They also learn about the routes of drug administration in experimental animals as well as how to collect blood from animals used proper methods.		Apply	Hema S
4	CO 4	Integrate and utilize the knowledge gained in the theory course by applying it in the practical sessions using various experiments			Hema S
5	CO 5	Use basic formulas and methods in experimental pharmacology and perform dose calculation experiments.		Apply	Hema S

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2019-2023
Semester	6
Subject	Herbal Drug Technology – Practical

SI.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	BP609P	Utilize the knowledge of Herbal raw materials in formulation of Herbal Drugs and Cosmetics.		Apply	Lins Mary Joy
2	BP609P2	Formulate and develop Herbal Products and Cosmetics		Apply	Lins Mary Joy
3	BP609P3	Evaluation of Herbal Formulations		Apply	Lins Mary Joy

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