
Course Outcomes (COs)

Program: B pharm

Batch: 5th 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	2020-2024
Semester	5
Subject	Formulative Pharmacy– Theory

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	BP 502 T 1	Gain knowledge about the preformulation studies of pharmaceuticals	unit I	Understand	Gifty M Jojo
2	BP 502 T 2	Formulation, methods and equipments for manufacture and evaluation of different conventional dosage forms	UNIT II AND III	Apply	Gifty M Jojo
3	BP 502 T 3	Attain the understanding of formulation and manufacture of parenteral dosage forms	UNIT IV	Understand	Gifty M Jojo
4	BP 502 T 4	Learn about the packaging materials used in pharmaceutical industries	UNIT 5	Understand	Gifty M Jojo
5	BP 502 T 5	undersatand the basic principles of cosmetic science	UNIT 5	Understand	Gifty M Jojo

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2019-2023
Semester	5
Subject	Medicinal Chemistry II – Theory

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	BP501T.1	To understand the chemistry of drugs with respect to their pharmacological activity		Understand	Manu Jose
2	BP501T.2	Acquire knowledge about the relationship between the biological activity and Physicochemical properties of therapeutic agents.		Apply	Manu Jose
3	BP501T.3	Demonstrate the synthesis of some important class of drugs		Understand	Manu Jose
4	BP501T.4	Utilize the knowledge of the mechanism pathways of different class of medicinal compounds to understand their pharmacological activity		Understand	Manu Jose
5	BP501T.5	Demonstrate the chemistry, classification, SAR and uses of different classes of drugs with respect to their pharmacological activity.		Understand	Manu Jose

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2020-2024
Semester	5
Subject	Pharmacology II – Theory

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	BP503T.1	Understand about the basic principles of pharmacological bioassays and the entire drug discovery processes including clinical trials		Analyze	V T Shamla
2	BP503T.2	Explain how drugs, toxins, chemicals act in our body at organ system/sub cellular/ macromolecular levels. (i.e mechanisms of action)		Understand	V T Shamla
3	BP503T.3	Explain the entire pharmacological aspects of drugs (such as classifications, mechanisms of action, adverse drug reactions, uses etc) acting on cardiovascular system		Understand	V T Shamla
4	BP503T.4	Explain the entire pharmacological aspects of drugs (such as classifications, mechanisms of action, adverse drug reactions, uses etc) acting on endocrine system and autocooids		Understand	V T Shamla
5	BP503T.5	Employ the knowledge gained through understanding of the pharmacology of drugs and apply it in the dispensing of drugs and help in the treatment of various diseases affecting the body systems and thus improve the general health of the community. (pharmacotherapeutics)		Analyze	V T Shamla

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2020-2024
Semester	5
Subject	Pharmacognosy and Phytochemistry II– Theory

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	BP504.1	Utilize the knowledge of the elucidation of biogenetic pathways of medicinally important secondary metabolites in phytochemical research fields and industry		Analyze	Ann Maria Alex
2	BP504.2	Understand and apply the knowledge of biological sources, cultivation/preparation, extraction, chemical constituents, chemical tests, uses and substitutes/adulterants of crude drugs in the herbal drug industry		Apply	Ann Maria Alex
3	BP504.3	Applying the knowledge of phytochemistry and estimation of marker compounds in the herbal drug industry		Apply	Ann Maria Alex
4	BP504.4	Knowledge of modern methods of extraction and techniques like Spectroscopy, chromatography and electrophoresis are helpful in herbal drug industry in the isolation, purification and identification of crude drugs.		Apply	Ann Maria Alex

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2020-2024
Semester	5
Subject	Pharmaceutical Jurisprudence – Theory

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	BP505T1	To understand the Pharmaceutical legislation & its implications in the development & marketing	A brief review; Introduction; Study of Drugs Enquiry Committee, Health Survey & Development Committee, Hathi Committee, Mudaliar Committee	Understand	Ann Maria Alex
2	BP505T2	To grab knowledge on the administration of various Acts in India	The Medicinal & Toilet Preparations Act & Rules 1955; The Narcotic drugs & Psychotropic Substances Act & Rules 1985; The Drugs & Magic Remedies Act & Rules; The Prevention of Cruelty to Animals Act 1960; The Medical Termination of Pregnancy Act ; The Right to Information Act; National Pharmaceutical Pricing Authority; Introduction to Intellectual Property Rights (IPR); The D & C Act & Rules	Apply	Ann Maria Alex
3	BP505T3	To understand the Pharmacy Councils in India	Objectives of Pharmacy Act; definitions; Pharmacy Council of India, its constitution & functions; Educational regulations; State & Joint Pharmacy Councils, its constitution & functions; Registration of Pharmacists; Offences & penalties	Understand	Ann Maria Alex
4	BP505T4	To grasp the knowledge of the regulatory authorities and agencies governing the import, manufacture and sale of pharmaceuticals.	Administration of the Act & Rules; Drugs Technical Advisory Board; Central Drugs Laboratory; Drugs Consultative Committee; Government Drug Analysts; Licensing Authorities; Controlling Authorities; Drug Inspectors	Apply	Ann Maria Alex
5	BP505T5	To understand the code of ethics during the pharmaceutical practice & the pharmacist oath	Definition; Pharmacist in relation to his job, trade & medical profession; Pharmacist's oath	Apply	Ann Maria Alex



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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2020-2024
Semester	5
Subject	Formulative Pharmacy – Practical

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	BP506P.1P	Attain basic understanding in the area of preformulation study, manufacturing, packaging and labeling of tablets.		Apply	Melody Grace Baby
2	BP506P.2P	Understand the requirements of parenteral product preparation, packaging and labeling		Apply	Melody Grace Baby
3	BP506P.3P	Understand processes involved in the preparation and evaluation of syrups		Apply	Melody Grace Baby
4	BP506P.4P	Develop skill in the manufacturing and packaging of creams		Apply	Melody Grace Baby
5	BP506P.5P	Learn the evaluation studies of different formulations and packaging materials.		Apply	Melody Grace Baby

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2020-2024
Semester	5
Subject	Pharmacology II – Practical

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	BP507.1	Understand about the basic instruments used in experimental pharmacology and their assembling and uses		Understand	V T Shamlala
2	BP507.2	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.		Understand	V T Shamlala
3	BP507.3	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 software.		Evaluate	V T Shamlala
4	BP507.4	Integrate and utilize the knowledge gained in the theory course by applying it in the practical sessions using various experiments on isolated tissue experiments. (chicken ileum)		Analyze	V T Shamlala
5	BP507.5	Use basic formulas and methods in experimental pharmacology and perform dose calculation experiments.		Analyze	V T Shamlala

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2020-2024
Semester	5
Subject	Pharmacognosy and Phytochemistry II – Practical

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO 1	Understand and apply the knowledge of Biological Sources, Morphology, Chemical tests, Uses, and Substitutes/Adulterants of crude drugs in the Herbal Drug Industry and research		Understand	Ann Maria Alex
2	CO 2	Utilize the knowledge of the Extraction of plant-based compounds in phytochemical research fields and industry.		Apply	Ann Maria Alex
3	CO 3	Applying the principles of Chromatography in the identification and isolation of phytoconstituents in herbal research and industry.		Understand	Ann Maria Alex
4	CO 4	Utilize the knowledge of Standardisation of extracts and formulations by marker compounds in Traditional types of Herbal Drug Industries like Ayurveda-based industries.		Apply	Ann Maria Alex

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