
Course Outcomes (COs)

Program: M Pharm (Pharmaceutics)

Batch: 1st 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	M Pharm Pharmaceutics
Batch	2021-2023
Semester	1
Subject	Modern Pharmaceutical Analytical Techniques

SI.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	MPT101T.1	Critically evaluate various analytical techniques in the context of qualitative and quantitative analysis of drugs in single and combination dosage forms		Understand	Manu Jose
2	MPT101T.2	Demonstrate an understanding of theory and application of the most common methods of pharmaceutical analysis in research, academia, and industry.		Understand	Manu Jose
3	MPT101T.3	Apply the principles of chromatography and spectroscopic tools in qualitative and quantitative analysis of pharmaceuticals in research and industrial perspective		Apply	Manu Jose

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Nirmala College of Pharmacy, Muvattupuzha

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	M Pharm Pharmaceutics
Batch	2021-2023
Semester	1
Subject	Drug Delivery System

SI.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	MPH 102 T.1	Understand the various approaches for the development of novel drug delivery system.		Understand	Deepa M.K
2	MPH 102 T. 2	Apply the knowledge while selecting drugs and polymers for the designing of novel delivery system		Apply	Deepa M.K
3	MPH 102 T. 3	Apply their knowledge on advanced technology in formulation development and drug delivery		Apply	Deepa M.K
4	MPH 102 T. 4	Apply their knowledge on advanced technology in formulation development and drug delivery		Apply	Deepa M.K
5	MPH 102 T. 5	Understand various consideration of vaccine drug delivery through mucosal membrane and transdermal drug delivery system		Understand	Deepa M.K

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	M Pharm Pharmaceutics
Batch	2021-2023
Semester	1
Subject	Modern Pharmaceutic

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	MPH 103T.1	pharmaceutical formulation development and optimization of formulation		Apply	Gifty M Jojo
2	MPH 103T.3	Industrial Management and GMP Considerations		Understand	Gifty M Jojo
3	MPH 103T.5	Key parameters in formulation development		Apply	Gifty M Jojo
4	MPH 103T..2	Scope of process validation and guidelines for calibration and validation		Understand	Manju Maria Mathews
5	MPH 103T..4	physics of tablet compression		Understand	Manju Maria Mathews

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	M Pharm Pharmaceutics
Batch	2021-2023
Semester	1
Subject	Regulatory Affairs

SI.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO1	Upon completion of the course the student will be able to describe the Concepts of innovator and generic drugs, the drug development process	Unit One and Two	Understand	Dhanish Joseph
2	CO2	Describe the guidelines for the filing and approval process Preparation of Dossiers and their submission to regulatory agencies in different countries	Unit two and three	Understand	Dhanish Joseph
3	CO3	Discuss the Post-approval regulatory requirements for activities and drug products	Unit Four	Understand	Dhanish Joseph
4	CO4	Able to describe the Submission procedure of global documents in CTD/ eCTD formats	Unit two and Three	Understand	Dhanish Joseph
5	CO5	Able to discuss the Clinical trials requirements for approvals for conducting clinical trials Pharmacovigilance and process of monitoring in clinical trials	Unit Five	Understand	Dhanish Joseph

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	M Pharm Pharmaceutics
Batch	2021-2023
Semester	1
Subject	Pharmaceutics Practical

SI.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO1	Students will be able to select suitable ingredients for the granulation mixture		Apply	Vidya Peter
2	CO2	Students will be able to select suitable process parameters for tablet manufacturing		Apply	Vidya Peter
3	CO3	Demonstrate an understanding of theory and application of the most common methods of pharmaceutical analysis in research, academia, and industry.		Understand	Manju Maria Mathews
4	CO4	Apply the principles of chromatography and spectroscopic tools in qualitative and quantitative analysis of pharmaceuticals in research and industrial perspective		Apply	Manju Maria Mathews
5	CO5	Students are able to formulate and evaluate sustained release matrix tablets		Create	Deepa M.K

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Course Outcomes (COs)

Program: M Pharm (Pharmaceutics)

Batch: 2nd Semester



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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	M Pharm Pharmaceutics
Batch	2021-2023
Semester	2
Subject	Molecular Pharmaceutics (Nano Tech and Targeted DDS)

SI.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	MPH 201T1	Design drug delivery systems for targeting drugs to tumours and to the brain		Create	Deepa M.K
2	MPH 201T2	Prepare and evaluate nanoparticles and liposomes as carriers for drug targeting		Apply	Deepa M.K
3	MPH 201T3	:Select drugs and polymers in the design of microspheres and microcapsules for various applications and to understand various develop strategies for improving nasal absorption in the design of nasal drug delivery systems		Evaluate	Deepa M.K
4	MPH 201T4	Optimize pulmonary delivery by the design of suitable aerosols, nebulizers and dry powder inhalers		Analyze	Deepa M.K
5	5	To understand the role of antisense molecules and aptamers in the design of novel drug delivery systems and apply gene therapy in the treatment of cancer and inherited diseases		Understand	Deepa M.K
6	5	To understand the role of antisense molecules and aptamers in the design of novel drug delivery systems and apply gene therapy in the treatment of cancer and inherited diseases		Understand	Deepa M.K

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	M Pharm Pharmaceutics
Batch	2021-2023
Semester	2
Subject	Advanced Biopharmaceutics & Pharmacokinetics

SI.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	Basic 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.	Pharmacokinetic principles	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	M Pharm Pharmaceutics
Batch	2021-2023
Semester	2
Subject	Cosmetics and Cosmeceuticals

SI.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	MPH 204 T	To study the biological and Formulation aspects in the design of skin cosmetics		Understand	Melody Grace Baby
2	MPH 204 T	To design and Develop various cosmetics and cosmeceuticals addressing various skin and oral health problems.		Apply	Melody Grace Baby
3	MPH 204 T	Understand regulatory provisions relating to manufacture of cosmetics.		Understand	Manju Maria Mathews
4	MPH 204 T	Gain knowledge about building blocks to develop cosmetics and cosmeceuticals with desired safety, stability, and efficacy.		Apply	Manju Maria Mathews
5	MPH 204 T	Learn the guidelines for herbal cosmetics and analyse challenges in formulating herbal cosmetics		Understand	Manju Maria Mathews

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	M Pharm Pharmaceutics
Batch	2021-2023
Semester	2
Subject	Computer Aided Drug Delivery System

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	MPH 203T.1	Computers in Pharmaceutical Research and Development		Apply	Gifty M Jojo
2	MPH 203T.4	Computer-aided biopharmaceutical characterization		Apply	Gifty M Jojo
3	MPH 203T.5	Artificial Intelligence(AI), Robotics and Computational fluid dynamics		Understand	Gifty M Jojo

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	M Pharm Pharmaceutics
Batch	2021-2023
Semester	2
Subject	Pharmaceutics Practical II

SI.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	MPH 205.1 P	TO APPLY THEIR KNOWLEDGE TO DEVELOP COSMETICS WITH DESIRED SAFETY, STABILITY AND EFFICACY		Apply	Manju Maria Mathews
2	MPH 205.2 P	TO SCREEN SIGNIFICANT FACTORS THAT INFLUENCES THE FORMULATION CHARACTERISTICS AND OPTIMISE THE FORMULATION ACCORDINGLY		Apply	Manju Maria Mathews
3	MPH205.3P	Use plasma data and derive the pharmacokinetic parameters to describe the process of drug absorption, distribution, metabolism and elimination.		Apply	Vidya Peter
4	MP205.4 P	To optimize the formulation by design expert software		Apply	Fels Saju
5	MPH205.5P	Students are able to Prepare and evaluate microspheres and liposomes as carriers for drug targeting		Apply	Vidya Peter

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Course Outcomes (COs)

**Program: M Pharm
(Pharmaceutics)
Batch: 3rd Semester**



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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	M Pharm Pharmaceutics
Batch	2020-2022
Semester	3
Subject	Research Methodology and Biostatistics*

SI.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	MRM 301T.1	After completion of this course students gain knowledge in General Research Methodology		Understand	Gifty M Jojo
2	MRM 301T.2	After completion of this course students gain knowledge in Collection and analysis of data		Understand	Gifty M Jojo
3	MRM 301T.3	After completion of this course students gain knowledge in Medical Research:		Understand	Gifty M Jojo
4	MRM301.4	After completion of this course students gain knowledge in CPCSEA guidelines for laboratory animal facility:		Understand	Gifty M Jojo
5	MRM301T.5	After completion of this course students gain knowledge in Technical writing, thesis/research report writing		Apply	Gifty M Jojo
6	MRM301T.6	After completion of this course students gain knowledge in Research reporting		Apply	Gifty M Jojo

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Course Outcomes (COs)

Program: M Pharm(pharmacology)

Batch: 1st semester



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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	M Pharm Pharmacology
Batch	2021-2023
Semester	1
Subject	Modern Pharmaceutical Analytical Techniques

SI.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	MPT101T.1	Critically evaluate various analytical techniques in the context of qualitative and quantitative analysis of drugs in single and combination dosage forms		Understand	Manu Jose
2	MPT101T.2	Demonstrate an understanding of theory and application of the most common methods of pharmaceutical analysis in research, academia, and industry.		Understand	Manu Jose
3	MPT101T.3	Apply the principles of chromatography and spectroscopic tools in qualitative and quantitative analysis of pharmaceuticals in research and industrial perspective		Apply	Manu Jose

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	M Pharm Pharmacology
Batch	2021-2023
Semester	1
Subject	Advanced Pharmacology-I

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO1	The students would have an indepth knowledge in the field of pharmacology pertaining to the drugs and its therapeutic applications, the recent advances in the drugs used for the treatment of various diseases. They would have understood the concepts of drug action and mechanisms involved. They would have discussed the pathophysiology and pharmacotherapy of certain diseases? They would have understood the underlying mechanism of drug actions at cellular and molecular level.		Understand	Emily James
2	CO2	They would have knowledge on the recent advances in the drugs used for the treatment of various diseases.		Remember	Emily James
3	CO3	They would have discussed the pathophysiology and pharmacotherapy of certain diseases		Understand	Emily James

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	M Pharm Pharmacology
Batch	2021-2023
Semester	1
Subject	Pharmacology and Toxicology Screening Methods-I

SI.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	MPL103T.1	Appraise the regulations and ethical requirement for the usage of various animals used in the drug discovery process and good laboratory practices in maintenance and handling of experimental animals	Describe the regulations and ethical requirement for the usage of various species and strains of experimental animals and explain CPCSEA guidelines, GLP. Classify Bioassay, Explain the principle, scope, limitations and methods of bioassay	Understand	Maneesha Peter
2	MPL103T.2	Describe the various newer screening methods involved in the drug discovery process	Classify and explain various preclinical invitro, in vivo and other possible animal alternative models for the screening of following classes of drugs: a) CNS Pharmacology b) Respiratory Pharmacology c) Reproductive Pharmacology d) Analgesics, anti-inflammatory and antipyretic agents e) Gastrointestinal drugs f) Cardiovascular Pharmacology g) metabolic disorders h) Anti cancer agents i) Hepatoprotective screening methods j) Immunomodulators, Immunosuppressants and immunostimulants	Evaluate	Maneesha Peter
3	MPL103T.3	Describe general principles of Immunoassay and explain Immunoassay methods of evaluation	Explain optimization of immunoassay, classify immunoassay systems and study various Immunoassay methods	Understand	Maneesha Peter
4	MPL103T.4	Appreciate and correlate the preclinical data to clinical data	Describe limitations of animal experimentation, alternate animal experiments and explain Extrapolation of in vitro data to preclinical and preclinical to humans	Understand	Maneesha Peter



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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	M Pharm Pharmacology
Batch	2021-2023
Semester	1
Subject	Pharmacology-I Practical

SI.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	MPL 105P.1	Students were able to design & analyze the given sample of drugs using spectroscopic, chromatographic, fluorimetry, and flame photometry		Evaluate	Nancy Jose
2	MPL 105P.2	Students were able to perform experiments with rodents for CNS-related activities, diuretics, and GI effects.		Analyze	Nancy Jose
3	MPL 105P.3	Students were able to perform experiments with rodents for CNS-related activities, diuretics, and GI effects.		Analyze	Nancy Jose
4	MPL 105P.4	Students were able to perform experiments with rodents for CNS-related activities, diuretics, and GI effects.		Analyze	Nancy Jose
5	MPL 105P.5	Students were able to perform experiments with rodents for CNS-related activities, diuretics, and GI effects.		Analyze	Nancy Jose

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	M Pharm Pharmacology
Batch	2021-2023
Semester	1
Subject	Cell and Molecular Pharmacology

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	C01	To acquire the fundamental knowledge on the cellular structures and the interaction of these components with drugs		Understand	Fousia R
2	C02	To learn the receptor signal transduction processes.		Understand	Fousia R
3	C03	To learn the molecular pathways affected by drugs.		Remember	Fousia R
4	C04	To learn the applicability of molecular pharmacology and biomarkers in drug discovery process		Remember	Fousia R
5	C05	To learn and to demonstrate molecular biology techniques as applicable for pharmacology		Understand	Fousia R

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Course Outcomes (COs)

Program: M Pharm(pharmacology)

Batch: 2nd semester



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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	M Pharm Pharmacology
Batch	2021-2023
Semester	2
Subject	Advanced Pharmacology II

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO1	The students would have an indepth knowledge in the field of pharmacology pertaining to the drugs and its therapeuti capplications, the recentadvances in the drugs used for the treatment of various diseases. They would have understood the concepts of drug action and mechanisms involved.		Understand	Emily James
2	CO2	Students would have understood thepharmacotherapy and adverse effects, contraindications and clinical uses of drugs used in treatment of various diseases		Apply	Emily James
3	CO3	They would have gained sufficient understanding of the mechanism of drug actions at cellular and molecular level under various pharmacological classes.		Understand	Emily James
4	CO4	Understand the mechanisms in generation of free radicals, role of free radicals disease etilogy and use of antioxidants.		Apply	Emily James
5	CO5	They would have understood the concepts of drug action and mechanisms involved. They would have discussed the pathophysiology and pharmacotherapy of certain diseases.		Understand	Emily James

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	M Pharm Pharmacology
Batch	2021-2023
Semester	2
Subject	Pharmacological and Toxicological Screening Methods –II

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO 1	Evaluate and estimate different types of toxicity studies in regulatory toxicology and its importance in drug development.		Understand	Hema S
2	CO 2	Interpret and justify ethical and safety aspects of regulatory requirements for toxicity studies in association with investigational new drug application.		Analyze	Hema S
3	CO 3	Interpret the importance of toxicokinetic and alternative methods to animal toxicity testing in association with drug discovery and assessment		Understand	Hema S
4	CO 4	Interpret the importance of toxicokinetic and alternative methods to animal toxicity testing in association with drug discovery and assessment		Understand	Hema S
5	CO 5	Describe in detail about various methods employed in drug discovery and development		Understand	Hema S

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	M Pharm Pharmacology
Batch	2021-2023
Semester	2
Subject	Principles of Drug Discovery

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	MPL 203 T.1	Explain about various stages involved in modern drug discovery process	An overview of modern drug discovery process: Target identification, target validation, lead identification and lead Optimization. Economics of drug discovery.	Understand	Elayath Parvathy Murali
2	MPL 203 T.2	Explain the role of genomics, proteomics and bioinformatics in drug discovery	Target Discovery and validation-Role of genomics, proteomics and bioinformatics. Role of nucleic acid microarrays, protein microarrays, antisense technologies, siRNAs, antisense oligonucleotides, Zinc finger proteins. Role of transgenic animals in target validation.	Understand	Elayath Parvathy Murali
3	MPL 203 T.3	Explain various lead seeking method and lead optimization	Lead Identification- combinatorial chemistry & high throughput screening, insilico lead discovery techniques, assay development for hit identification. Protein structure Levels of protein structure, domains, motifs, and folds in protein structure. Computational prediction of protein structure: Threading and homology modeling methods. Application of NMR and X-ray crystallography in protein structure prediction .	Remember	Elayath Parvathy Murali
4	MPL 203 T.4	Describe in detail about the concept of Rational Drug Design	Rational Drug Design Traditional vs rational drug design, methods followed in traditional drug design, high throughput screening, concepts of rational drug design, rational drug Design Methods: Structure and pharmacophore based approaches virtual screening techniques: drug likeness screening, concept of pharmacophore mapping and pharmacophore based screening.	Understand	Elayath Parvathy Murali
5	MPL 203 T.5	Explain the concept of molecular docking and its applications	Molecular docking: rigid docking, flexible docking, manual docking; docking based screening. De novo drug design. Quantitative analysis of structure activity relationship	Remember	Elayath Parvathy Murali
6	MPL 203 T.6	Explain the concept of QSAR and QSAR statistical methods	History and development of QSAR, SAR vs QSAR, physicochemical parameters, Hansch analysis, Fee Wilson analysis and relationship between them. 5. QSAR Statistical methods – regression	Apply	Elayath Parvathy Murali