
Course Outcomes (COs)

Program: B Pharm

Batch: 2nd 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	2021-2025
Semester	2
Subject	Human Anatomy and Physiology II – Theory

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	co1	test	Explain the anatomy and physiology of Human Anatomy & Physiology and disorders of digestive system	Understand	Emily James
2	CO2	test	Understand the anatomy and homeostatic mechanisms and altered physiology of nervous system.	Understand	Emily James
3	CO3	test	Understand the homeostatic mechanisms and altered physiology of respiratory and urinary system	Understand	Emily James
4	CO4	test	Understand the homeostatic mechanisms and altered physiology of endocrine system.	Understand	Emily James
5	CO5	test	Students would have studied in detail about the male and female reproductive systems.	Understand	Emily James

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2021-2025
Semester	2
Subject	Pharmaceutical Organic Chemistry I – Theory

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	BP202T.1	Understand fundamental principles of organic chemistry.	Understand fundamental principles of organic chemistry.	Analyze	Anu Jayamol Mathew
2	BP202T.2	Understand the nomenclature of alkanes, alkenes, alkynes, alkyl halides, aromatic compounds, carbonyl compounds, Alcohols, ethers, phenols, amines, acids and their various derivatives using systematic (IUPAC) nomenclature	Understand the nomenclature of alkanes, alkenes, alkynes, alkyl halides, aromatic compounds, carbonyl compounds, Alcohols, ethers, phenols, amines, acids and their various derivatives using systematic (IUPAC) nomenclature	Create	Anu Jayamol Mathew
3	BP202T.3	Depict and explain detailed chemical mechanisms for various chemical reactions.	Depict and explain detailed chemical mechanisms for various chemical reactions.	Evaluate	Anu Jayamol Mathew
4	BP202T.4	Predict the physical properties of organic chemicals based on their structures and their hazardous nature.	Predict the physical properties of organic chemicals based on their structures and their hazardous nature.	Evaluate	Anu Jayamol Mathew
5	BP202T.5	Understand the synthesis of various organic compounds which may be intermediates of drugs	Understand the synthesis of various organic compounds which may be intermediates of drugs	Apply	Anu Jayamol Mathew

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2021-2025
Semester	2
Subject	Biochemistry – Theory

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO1	Outline the structure, function and interrelationship of various biomolecules and the consequences of deviation from the normal	The application of the various biomolecules and its function in correlation with body parts	Remember	Greeshma G Nair
2	CO2	To know about bioenergetics and biological oxidation in the cell	Energy rich compounds and their functions	Understand	Greeshma G Nair
3	CO3	To understand catalytic role, therapeutic and diagnostic applications of enzymes and isoenzymes	Application of enzymes and isoenzymes by catalytically therapeutically and diagnostically	Apply	Greeshma G Nair
4	CO4	To know about the various biomolecules that affect the metabolism and the pathways of several diseases	To understand the different metabolic pathways and their deficiency diseases	Understand	Greeshma G Nair
5	CO5	To understand the mammalian genome, protein synthesis, replication mutation, and repair mechanism etc.	Study of human genome and their application	Apply	Greeshma G Nair

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2021-2025
Semester	2
Subject	Pathophysiology – Theory

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	BP 204T.1	Knowledge of the etiology of various conditions		Understand	Maneesha Peter
2	BP 204T.2	Understanding of basic pathophysiological mechanisms of various conditions with reference to its pharmacological applications		Understand	Maneesha Peter
3	BP 204T.3	Thorough knowledge of the signs and symptoms of various conditions		Understand	Maneesha Peter
4	BP 204T.4	Understand the complications of various conditions, transmission and preventive measures		Understand	Maneesha Peter
5	BP 204T.5	Acquire skills and knowledge for patient and community education on the various diseases		Apply	Maneesha Peter

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2021-2025
Semester	2
Subject	Environmental sciences – Theory *

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	BP 206.1	Utilize the knowledge of natural resources and assist to solve associated problems.		Apply	Merrin Joseph
2	BP 206.2	Impact basic knowledge about the ecosystem and its allied problems. Develop an attitude of concern for the environment and acquire skills to help the concerned individuals in identifying and solving environmental problems		Understand	Merrin Joseph
3	BP 206.3	ivate learner to participate in environment protection and improvement by giving proper directions on disposal of pharmaceutical wastes.		Create	Merrin Joseph

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2021-2025
Semester	2
Subject	Human Anatomy and Physiology II –Practical

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO1	Students will gain knowledge on integumentary and special senses using specimen, models, etc.,		Apply	Emily James
2	CO2	Students will be able to determine body temperature, BMI, lung volumes and capacitances.		Evaluate	Emily James
3	CO3	To demonstrate the reflex activity and analyse results.		Evaluate	Emily James
4	CO4	Examination of functioning and status of various senses viz olfactory nerve, vision acuity testing etc		Evaluate	Emily James
5	CO5	Able to identify and describe various histological slides		Apply	Emily James

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
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Batch	2021-2025
Semester	2
Subject	Pharmaceutical Organic Chemistry I – Practical

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	BP208P.1	Students will be able to Identify unknown organic compounds in a systematic way and to summarize findings in a clear and concise manner.	Students will be able to Identify unknown organic compounds in a systematic way and to summarize findings in a clear and concise manner.	Evaluate	Anu Jayamol Mathew
2	BP208P.2	Students will be able to synthesise organic drugs or intermediate involving one-step reaction in conventional methods and to report their percentage yield.	Students will be able to synthesise organic drugs or intermediate involving one-step reaction in conventional methods and to report their percentage yield.	Analyze	Anu Jayamol Mathew
3	BP208P.3	Students will be able to depict and explain detailed chemical mechanisms for all chemical reactions and reactions related to synthesis.	Students will be able to depict and explain detailed chemical mechanisms for all chemical reactions and reactions related to synthesis.	Evaluate	Anu Jayamol Mathew
4	BP208P.4	Students will be able to make stereo models of simple organic molecules.	Students will be able to make stereo models of simple organic molecules.	Create	Anu Jayamol Mathew
5	BP208P.5	Knows the proper procedures and regulations for safe handling and use of chemicals and can follow the proper procedures and regulations for safe handling when using chemicals.	Knows the proper procedures and regulations for safe handling and use of chemicals and can follow the proper procedures and regulations for safe handling when using chemicals.	Apply	Anu Jayamol Mathew

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Institute	Nirmala College of Pharmacy, Muvattupuzha
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Batch	2021-2025
Semester	2
Subject	Biochemistry – Practical

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO1	Demonstrate knowledge and understand on analysing for the presence of bio-molecules like carbohydrate and protein in body fluid	Analysing biomolecules present in the given sample of carbohydrate, protein	Analyze	Greeshma G Nair
2	CO2	Demonstrate understanding on principles that govern the nature of various bio-molecules	Understanding of principles that govern the nature of various biomolecules	Understand	Greeshma G Nair
3	CO3	Use basic laboratory skills and apparatus to obtain reproducible data from biochemical experiments	Students can able to use different laboratory apparatus from biochemical experiments	Apply	Greeshma G Nair
4	CO4	Knowledge on application of biochemical techniques	Application of different biochemical techniques	Apply	Greeshma G Nair
5	CO5	Develop understanding the significance of biochemical tests in clinical practice	Students can understand the significance of different biochemical tests for abnormal constituents of urine analysis	Understand	Greeshma G Nair

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Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2021-2025
Semester	2
Subject	Computer Applications in Pharmacy – Practical*

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO1	To demonstrate and make use of MS Office, MS Word, MS Excel, MS Access and MS Power point.		Understand	Jobin Baby
2	CO2	To understand the paradigms of program languages and be exposed to at least one language from each model, C and SQL.		Understand	Jobin Baby
3	CO3	To summarize the report and printing the report from patient database		Understand	Jobin Baby
4	CO4	To create HTML web page to show personal information		Understand	Jobin Baby
5	CO5	To create mailing labels Using Label Wizard , generating label in MS WORD		Understand	Jobin Baby

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