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## **Course Outcomes (COs)**

**Program: B pharm**

**Batch: I<sup>st</sup> semester**

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# 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	2022-2026
Semester	1
Subject	Human Anatomy and Physiology I – Theory

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	BP101T.1	Explain the gross morphology, structure and functions of various organs of the human body	study the gross morphology, structure and functions of various organs of the human body	Understand	Nancy Jose
2	BP101T.2	Describe the various homeostatic mechanisms and their imbalances	study the various homeostatic mechanisms and their imbalances	Understand	Nancy Jose
3	BP101T.3	Identify the various tissues and organs of different systems of human body	differentiate and study the various tissues and organs of different systems of human body	Understand	Nancy Jose
4	BP101T.4	To explain the physiology of special senses and nervous system	the physiology of special senses like vision, hearing, touch and smell and nervous system	Analyze	Nancy Jose
5	BP101T.5	Appreciate coordinated working pattern of different organs of each system	understand the coordinated working pattern of different organs of each system	Analyze	Nancy Jose

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## Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2022-2026
Semester	1
Subject	Pharmaceutical Analysis I – Theory

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	BP102T.1	Understand the basic concept of the various volumetric analysis and will have a firm foundation in the fundamentals and application of current chemical and scientific theories of Analytical Chemistry.	Understand the basic concept of the various volumetric analysis and will have a firm foundation in the fundamentals and application of current chemical and scientific theories of Analytical Chemistry.	Understand	Elseena Jose
2	BP102T.2	Gain an understanding of common laboratory techniques and gravimetric analysis for quantitative analysis of pharmaceuticals.	Gain an understanding of common laboratory techniques and gravimetric analysis for quantitative analysis of pharmaceuticals.	Apply	Elseena Jose
3	BP102T.3	Understand the basic principles of electrochemical methods of analysis of drugs.	Understand the basic principles of electrochemical methods of analysis of drugs.	Understand	Elseena Jose
4	BP102T.4	Be skilled in preparation and standardization of various concentrations of analytical solutions	Be skilled in preparation and standardization of various concentrations of analytical solutions	Apply	Elseena Jose
5	BP102T.5	Understand the concepts of errors, accuracy, precision and significant figures.	Understand the concepts of errors, accuracy, precision and significant figures.	Understand	Elseena Jose

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## Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2022-2026
Semester	1
Subject	Pharmaceutics I – Theory

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO1	Explain history of profession of Pharmacy in India & Pharmacopeia and its development.		Understand	Manju Maria Mathews
2	CO2	Learn parts and handling of prescription, posology & dose calculation of drug in children		Understand	Manju Maria Mathews
3	CO3	Understand basic requirements, formulation and evaluation of conventional dosage forms like powder, liquid (monophasic & biphasic) and semi solid dosages forms.		Understand	Manju Maria Mathews
4	CO4	To understand about pharmaceutical incompatibility and methods to overcome		Understand	Manju Maria Mathews
5	CO5	Understand the mechanisms and factors influencing dermal penetration of drugs		Understand	Manju Maria Mathews

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## Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2022-2026
Semester	1
Subject	Pharmaceutical Inorganic Chemistry – Theory

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO.2	To understand the medicinal and pharmaceutical importance of inorganic compounds		Understand	Namitha T H
2	CO.3	To understand the principles and procedures of analysis of drugs		Analyze	Namitha T H
3	CO.4	To study regarding the application of inorganic pharmaceuticals and appreciate the importance of inorganic pharmaceuticals in preventing and curing the disease		Apply	Namitha T H
4	CO.5	To understand the basic concepts of buffers and isotonic solutions.		Understand	Namitha T H
5	CO.1	To know the sources of impurities and methods to determine the impurities in inorganic drugs and pharmaceuticals		Remember	Namitha T H

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## Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2022-2026
Semester	1
Subject	Communication skills – Theory * 2

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	c01	Upon completion of the course the student will be able to communicate fearlessly. They can identify the stage of communication while they communicate, so they become effective communicators. Understand the communication barriers and they identify their communication barriers. and they easily overcome those barriers. Change their narrow thinking and start broad thinking. Enlarging their communication capacity. use good body and sound techniques of communication. They easily assume the communication styles of different people they communicate with. They are able to use the most effective communication styles in different situations.		Apply	Athira James
2	CO2	Upon completion of the course the student will be able to identify the importance of listening in communication, and become good listeners in the communication process. Improve their general writing capacity and also improve their literary writing capacity. handle different styles of writing.		Analyze	Athira James
3	CO3	Upon completion of the course the student will be able to attend an interview effectively without any fear. And make sure that they can produce their best during an interview. They can improve their confidence with enough practice.		Apply	Athira James
4	CO4	Upon completion of the course the student will be able to improve their presentation skills.		Create	Athira James
5	CO5	Upon completion of the course the students will be able to 1. Do more about Group discussions. Through practice they can develop their communication skills and also general awareness. And help to overcome their stage fear.		Apply	Athira James

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## Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2022-2026
Semester	1
Subject	Human Anatomy and Physiology – Practical

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	BP107P.1	Understand the normal anatomical peculiarities of tissues.	Microscopic study of epithelial and connective tissue Microscopic study of muscular and nervous tissue	Understand	Maneesha Peter
2	BP107P.2	Record the normal physiologic constants like blood pressure, body temperature etc for analyzing the homeostatic state of body	Determination of heart rate and pulse rate, Recording of blood pressure	Analyze	Maneesha Peter
3	BP107P.3	Analyze and interpret the pathological states associated with blood cells	Enumeration of white Blood cell(WBC) count, Enumeration of total Red Blood corpuscles(RBC) count	Analyze	Maneesha Peter
4	BP107P.4	Correlate the anatomical features of bones in normal and bone anomalies	Identification of axial bones, Identification of appendicular bones	Apply	Maneesha Peter
5	BP107P.5	Correlate basic physiology with the pathophysiological outcomes that may be encountered in the clinical setting	Determination of bleeding time, Determination of clotting time, Estimation of hemoglobin content, Determination of blood group, Determination of Erythrocyte Sedimentation Rate(ESR),	Apply	Maneesha Peter

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## Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2022-2026
Semester	1
Subject	Pharmaceutical Analysis I – Practical

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	BP108P.1	Perform electroanalytical methods to determine the normality of drugs and pharmaceuticals.	Perform electroanalytical methods to determine the normality of drugs and pharmaceuticals.	Apply	Elseena Jose
2	BP108P.2	Perform the quantitative analysis of samples and standardize various chemical solutions by various volumetric methods	Perform the quantitative analysis of samples and standardize various chemical solutions by various volumetric methods	Apply	Elseena Jose
3	BP108P.3	Perform various operations in the laboratory like weighing, transferring, titrations, preparation of solutions, recording and interpretation of analytical results.	Perform various operations in the laboratory like weighing, transferring, titrations, preparation of solutions, recording and interpretation of analytical results.	Apply	Elseena Jose
4	BP108P.4	Clearly communicate the results of scientific work in oral, written and in electronic formats.	Clearly communicate the results of scientific work in oral, written and in electronic formats.	Analyze	Elseena Jose
5	BP108P.5	Perform limit tests to determine the impurities in drugs and pharmaceuticals.	Perform limit tests to determine the impurities in drugs and pharmaceuticals.	Apply	Elseena Jose

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## Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2022-2026
Semester	1
Subject	Pharmaceutics I – Practical

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO1	Handle a prescription by identifying pharmaceutical/medical terminology, abbreviations and symbols commonly used in the prescribing and dispensing of medications in the pharmacy		Apply	Manju Maria Mathews
2	CO2	Achieve skill in the operation of common pharmaceutical measuring, weighing and compounding devices.		Apply	Manju Maria Mathews
3	CO3	Classify different dosage forms and apply principles of pharmaceutical science in formulation and dispensing of various conventional dosage forms		Apply	Manju Maria Mathews
4	CO4	Select proper containers for packaging and will have the capability to correctly label pharmaceutical preparations		Apply	Manju Maria Mathews

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## Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2022-2026
Semester	1
Subject	Pharmaceutical Inorganic Chemistry – Practical

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	CO 1	Know the source of impurities and determine impurities in inorganic compounds.		Evaluate	Namitha T H
2	CO2	know the identification test of few inorganic compounds		Understand	Namitha T H
3	CO3	To test the purity of some inorganic compounds.		Evaluate	Namitha T H
4	CO5	To know preparation of inorganic pharmaceuticals.		Create	Namitha T H

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## Course Outcome

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2022-2026
Semester	1
Subject	Communication skills – Practical*

Sl.No	CO Code	Course Outcome	Description	Bloom Level	Created_by
1	c01	improve basic communication skills		Apply	Athira James
2	CO2	improve pronunciation of English language		Apply	Athira James
3	CO3	learn etiquettes of different communication process		Apply	Athira James

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