



Samarth Rural Educational Institute's  
**SAMARTH INSTITUTE OF PHARMACY, BELHE.**

Approved by P.C.I New Delhi, D.T.E., Govt. of Maharashtra &  
Affiliated to D.B.A.T.U.Lonere & M.S.B.T.E. Mumbai.  
On Kalyan Nagar Highway A/P-Belhe, Tal- Junnar, Dist-Pune Pin: 412410  
Email:samarthiop@gmail.com, Web: iop.sreir.org

## SEMESTER-I

**Subject: Human Anatomy & Physiology-I**

**Subject Code: BP101T**

Course Outcome	Description
BP101.1.	Explain the gross morphology, structure and functions of various organs of the human body.
BP101.2.	Describe the various homeostatic mechanisms and their imbalances.
BP101.3.	Identify the various tissues and organs of different systems of human body.
BP101.4.	Perform the various experiments related to special senses and nervous system.
BP101.5.	Appreciate coordinated working pattern of different organs of each system.

**Subject: Human Anatomy & Physiology-I**

**Subject Code: BP107P**

Course Outcome	Description
BP107.1.	Effectively use the microscope for microscopic study of various tissues.
BP107.2.	Identify axial and appendicular bones of human skeleton.
BP107.3.	Explain the gross morphology, structure and functions of various organs of human body.
BP107.4.	Identify different tissues and organs of different systems of human body.
BP107.5.	Perform the hematological test like blood cell count, hemoglobin estimation, bleeding/clotting time, etc.
BP107.6.	Record the blood pressure, heart rate, pulse rate and respiratory volume.

**Subject: Pharmaceutical Analysis- I**

**Subject Code: BP102T**

Course Outcome	Description
BP102T.1	To study fundamentals of pharmaceutical analysis and pharmacopoeia, and basic principles of data treatment and errors. To know the sources of impurities and methods to determine the impurities.
BP102T.2	Students will be able to understand concept, need and basic principles of Acid Base titration, non-aqueous titration.
BP102T.3	Students will be able to learn about the basic principles of complexometric titration, precipitation titrations, gravimetric analysis etc.
BP102T.4	Students will acquire knowledge about concept and reaction conditions for complications and basic concept, applications of redox reaction
BP102T.5	Students will be able to understand concepts of electrochemical methods of analysis.
BP102T.1	To study fundamentals of pharmaceutical analysis and pharmacopoeia, and basic principles of data treatment and errors. To know the sources of impurities and methods to determine the impurities.



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**Subject: Pharmaceutical Analysis- I**

**Subject Code: BP108P**

<b>Course Outcome</b>	<b>Description</b>
<b>BP102T.1</b>	To study fundamentals of pharmaceutical analysis and pharmacopoeia, and basic principles of data treatment and errors. To know the sources of impurities and methods to determine the impurities.
<b>BP102T.2</b>	Students will be able to understand concept, need and basic principles of Acid Base titration, non-aqueous titration.
<b>BP102T.3</b>	Students will be able to learn about the basic principles of complexometric titration, precipitation titrations, gravimetric analysis etc.
<b>BP102T.4</b>	Students will acquire knowledge about concept and reaction conditions for complications and basic concept, applications of redox reaction

**Subject: Pharmaceutics**

**Subject Code: BP103T**

<b>Course Outcome</b>	<b>Description</b>
<b>BP103T.1</b>	Student will be able to understand the history and development of pharmacy profession and different pharmacopoeias.
<b>BP103T.2</b>	Understand the basics of different dosage forms, pharmaceutical incompatibilities and pharmaceutical calculations.
<b>BP103T.3</b>	Understand the professional way of handling the prescription and counsel patient.
<b>BP103T.4</b>	Student will be able to explain the factors which influence the design of pharmaceutical dosage form and the need for accuracy and thoroughness in manufacture of pharmaceutical products.
<b>BP103T.5</b>	Student will acquire knowledge about preparation and evaluation of various conventional dosage form.

**Subject: Pharmaceutics**

**Subject Code: BP109P**

<b>Course Outcome</b>	<b>Description</b>
<b>BP109P.1</b>	Student will be able to understand preparation of Liquid dosage form.
<b>BP109P.2</b>	Student will be able to understand preparation of solid dosage form.
<b>BP109P.3</b>	Student will be able to understand preparation of semi- solid dosage form.



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**Subject: Pharmaceutical Inorganic Chemistry Subject Code: BP104T**

<b>Course Outcome</b>	<b>Description</b>
<b>BP104T. 1</b>	To understand the medicinal and pharmaceutical importance compounds and monographs of inorganic drugs and pharmaceuticals. History of Pharmacopoeia, Sources and types of impurities, limit test for Chloride, Sulphate, Iron, Arsenic, Lead and Heavy metals, modified limit test for Chloride and Sulphate.
<b>BP104T. 2</b>	Describe in detail Acid, Base, Buffer and various theories, Buffer equations and buffer capacity, preparation, stability, buffered isotonic solutions, buffers in pharmaceutical systems and measurements of tonicity, calculations and methods of adjusting isotonicity. Functions of major physiological ions, Electrolytes used in the replacement therapy. Dentifrices, role of fluoride in the treatment of dental caries, Desensitizing agents, and various monographs of inorganic drugs.
<b>BP104T. 3</b>	To gain the knowledge of preparation, mode of action, dosage form, and uses of inorganic compounds as Gastrointestinal drug, Acidifiers, Antacid, Cathartics, and Antimicrobials.
<b>BP104T. 4</b>	Define and elaborate the details of various inorganic medicinal agent like Expectorants, Emetics, Haematinics, Poison, Antidote and Astringents
<b>BP104T. 5</b>	To understand various aspects of Radiopharmaceutical.

**Subject: Pharmaceutical Inorganic Chemistry Subject Code: BP110P**

<b>Course Outcome</b>	<b>Description</b>
<b>BP110P. 1</b>	Perform the limit tests for various inorganic elements and report
<b>BP110P. 2</b>	Perform qualitative tests to systematically identify the unknown chemical substances
<b>BP110P. 3</b>	Test the purity of the selected inorganic and organic compounds against the monograph standards and Preparation of various inorganic pharmaceuticals

**Subject: Communication Skill Subject Code: BP105T**

<b>Course Outcome</b>	<b>Description</b>
<b>BP105T.1</b>	To understand Personal and interpersonal Communication need for the verbal as well as non-verbal in different types of barriers areas
<b>BP105T.2</b>	To Learn communicate effectively by understanding different element verbal and non-verbal communication.
<b>BP105T.3</b>	To Learn effectively manage the basic listening and effective written communication.
<b>BP105T.4</b>	To Understand the Interview skill in different public speaking skill.



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**Subject: Communication Skill**

**Subject Code: BP111P**

<b>Course Outcome</b>	<b>Description</b>
<b>BP111P.1</b>	To understand basic communication process to interact effectively one person to another person
<b>BP 111P.2</b>	To Learn pronunciations.
<b>BP 111P.3</b>	To understand listening comprehension direct and indirect speech figure of speech, effective e communication
<b>BP111P.4</b>	To study of writing skill Email- writing technique
<b>BP111P.5</b>	To Understand Interview handling skill, Presentation Skill,

