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-VII

Subject: Instrumental Methods of Analysis Subject Code: BP701T

Course Outcome	Description
BP701T.1	Students will able to understand Interaction of matter with Electromagnetic Radiation and its applications in UV and Fluorimetry.
BP701T.2	Students will gain knowledge of Principles, Instrumentation of Infra-Red spectroscopy, Atomic Absorption spectroscopy, Atomic Emission Spectroscopy and Nephelo-turbidometry.
BP701T.3	Students will gain knowledge about different chromatographic separation conditions and their Principles.
BP701T.4	Students will gain knowledge about modern techniques of analysis such as HPLC, GC
BP701T.5	Students will learn about Ion exchange, Gel and Affinity chromatography.
Subject	: Instrumental Methods of Analysis Subject Code: BP705P

Subject: Instrumental Methods of Analysis Subject Code: BP705

Course Outcome	Description
BP705P.1	To study the Introduction of Analytical Chemistry and colorimetry, UV single and multicomponent analysis and solvent effect.
BP705P.2	To study Fluorescence and its Quenching, Flame photometry and Nephelo- turbidometry.
BP705P.3	To study chromatographic techniques and basic parameters of TLC, Paper, column, HPLC and GC.

Subject: INDUSTRIAL PHARMACY-II Subject Code: BP702T

Course Outcome	Description
BP702T.1	To impart fundamental knowledge on pharmaceutical product development and translation from laboratory to market
BP702T.2	To know the process of pilot plant and scale up of pharmaceutical dosage forms
BP702T.3	To understand the process of technology transfer from lab scale to commercial batch
BP702T.4	To know different Laws and Acts that regulate pharmaceutical industry
BP702T.5	To understand the approval process and regulatory requirements for drug products
	Subject: Pharmacy Practice Subject Code: BP703T

Course Outcome	Description
BP703T.1	Student as a Pharmacist will have knowledge of Hospital, Hospital Pharmacy and Community Pharmacy, and will promote rational use of drugs, ADR.
BP703T.2	Student as a Hospital Pharmacist will be aware of the hospital distribution system, Hospital Formulary, Therapeutic drug monitoring and Patient medication adherence.

COURSE OUTCOMES B.PHARMACY (13823)

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BP703T.3	Student as a Hospital Pharmacist will understand the working of Pharmacy and Therapeutic Committee, and can participate in patient counseling, training and education program, and have effective communication skills.
BP703T.4	Students will be able to explain the roles and responsibilities of a Clinical Pharmacist along with budget preparations & implementation in pharmacy unit.
BP703T.5	Student as a Hospital Pharmacist will have knowledge of inventory control, drug store management, investigation new drug, and will be able to interpret common clinical laboratory tests.

Subject: NOVEL DRUG DELIVERY SYSTEMS Subject Code: BP704T

Course Outcome	Description
BP704T.1	To impart basic knowledge on the area of novel drug delivery systems.
BP704T.2	To understand various approaches for development of novel drug delivery systems.
BP704T.3	To understand the criteria for selection of drugs and polymers for the development of Novel drug delivery systems, their formulation and evaluation.
BP704T.4	Learn the criteria for selection of a drugs and polymers for the development of Novel drug delivery systems.
BP704T.5	Learn the various approaches for development of novel drug delivery systems.



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SEMESTER-VIII

Subject: Biostatistics and Research Methodology Subject Code: BP801T

Course Outcome	Description
BP801T.1	Know the various statistical techniques like measures of central tendency, dispersion correlation to solve the statistical problems.
BP801T.2	Study the various statistical techniques like regression, probability, sampling, hypothesis testing, errors to solve the statistical problems.
BP801T.3	Understand the need of research and experimental design techniques.
BP801T.4	To know the operation of M.S. Excel, SPSS and MINITAB®, Design and analysis of experiments.

Subject: Social & Preventive Pharmacy Subject Code: BP802T

Course Outcome	Description
BP802T.1	Students shall be able to understand the concept of health and disease and thereby understand concept of prevention and control of disease, balanced diet, nutritional deficiencies and malnutrition, impact of urbanization on health and disease.
BP802T.2	Student shall be able to understand the concept of preventive medicine: on various diseases, and concept of addiction -abuse for the drugs or substances.
BP802T.3	Students shall be able to understand the importance of various National health programs on different diseases, its objectives, functioning and outcome.
BP802T.4	Students shall be able to know the significance of various National health intervention Programme for mother and child, tobacco control Programme, Malaria Prevention Program.
BP802T.5	Students will be able to understand the community health services in rural, urban and school health. Also will know the functions of PHC, and Improvement in rural sanitation.

Subject: Cosmetic Science Subject Code: BP809ET

Course Outcome	Description
BP809ET.1	To formulate and evaluate various cosmetic and cosmeceutical product on basis of application area.
BP809ET.2	To know the key component used in different cosmetic and cosmeceutical product.
BP809ET.3	To recognize the role of ingredient and herbs used in cosmeceutical product.
BP809ET.4	To know the advanced current technology used for manufacturing of cosmetics at lab scale and industry scale.
BP809ET.5	Employable skill, problem identification and high technical competence for pharmaceutical industry.

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Subject: Advanced Instrumentation Techniques Subject Code: BP811ET

Course Outcome	Description
BP811ET.1	Learn basic principles and instrumentation of MASS and NMR spectroscopy.
BP811ET.2	Learn basic principles and instrumentation of thermal analysis and X rays techniques.
BP811ET.3	Learn basic knowledge about the calibration and validation of analytical instruments.
BP811ET.4	Describe general principles, instrumentation and procedures involved in extraction techniques and Radioimmune assay.
BP811ET.5	Learn basic instrumentation and applications of hyphenated techniques.



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