

| Subject Name                           | Description  |
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| Instrumental Methods of Analysis       | This subject deals with the application of instrumental methods in qualitative and quantitative analysis of drugs. This subject is designed to impart a fundamental knowledge on the principles and instrumentation of spectroscopic and chromatographic technique. This also emphasizes on theoretical and practical knowledge on modern analytical instruments that are used for drug testing  |
| Industrial Pharmacy II                 | This course is designed to impart fundamental knowledge on pharmaceutical product development and translation from laboratory to market  |
| Pharmacy Practice                      | In the changing scenario of pharmacy practice in India, for successful practice of Hospital Pharmacy, the students are required to learn various skills like drug distribution, drug information, and therapeutic drug monitoring for improved patient care. In community pharmacy, students will be learning various skills such as dispensing of drugs, responding to minor ailments by providing suitable safe medication, patient counselling for improved patient care in the community set up. |
| Novel Drug Delivery Systems            | This subject is designed to impart basic knowledge on the area of novel drug delivery systems.   |
| Biostatistics And Research Methodology | To understand the applications of Biostatistics in Pharmacy. This subject deals with descriptive statistics, Graphics, Correlation, Regression, logistic regression Probability theory, Sampling technique, Parametric tests, Non Parametric tests, ANOVA, Introduction to Design of Experiments, Phases of Clinical trials and Observational and Experimental studies, SPSS, R and MINITAB statistical software's, analyzing the statistical data using Excel.                                      |
| Social And Preventive Pharmacy         | The purpose of this course is to introduce to students a number of health issues and their challenges. This course also introduced a number of national health programmes. The roles of the pharmacist in these contexts are also discussed  |
| Pharma Marketing Management            | The pharmaceutical industry not only needs highly qualified researchers, chemists and, technical people, but also requires skilled managers who can take the industry forward by managing and taking the complex decisions which are imperative for the growth of the industry. The Knowledge and Know-how of marketing management groom the people for taking a challenging role in Sales   |

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|  | and Product management  |
| Pharmaceutical Regulatory Science              | This course is designed to impart the fundamental knowledge on the regulatory requirements for approval of new drugs, and drug products in regulated markets of India & other countries like US, EU, Japan, Australia, UK etc. It prepares the students to learn in detail on the regulatory requirements, documentation requirements, and registration procedures for marketing the drug products.   |
| Pharmacovigilance                              | This paper will provide an opportunity for the student to learn about development of pharmacovigilance as a science, basic terminologies used in pharmacovigilance, global scenario of Pharmacovigilance, train students on establishing pharmacovigilance programme in an organization, various methods that can be used to generate safety data and signal detection. This paper also develops the skills of classifying drugs, diseases and adverse drug reactions.  |
| Quality Control And Standardization Of Herbals | In this subject the student learns about the various methods and guidelines for evaluation and standardization of herbs and herbal drugs. The subject also provides an opportunity for the student to learn cGMP, GAP and GLP in traditional system of medicines.   |
| Computer Aided Drug Design                     | This subject is designed to provide detailed knowledge of rational drug design process and various techniques used in rational drug design process.   |
| Cell And Molecular Biology                     | <p>Cell biology is a branch of biology that studies cells – their physiological properties, their structure, the organelles they contain, interactions with their environment, their life cycle, division, death and cell function.</p> <ul style="list-style-type: none"> <li>• This is done both on a microscopic and molecular level.</li> <li>• Cell biology research encompasses both the great diversity of single-celled organisms like bacteria and protozoa, as well as the many specialized cells in multi-cellular organisms such as humans, plants, and sponges.</li> </ul> |
| Cosmetic Science                               | This subject is designed to provide detailed knowledge of formulation and preparation of the cosmetic preparations like lipsticks, shampoos, cold cream and vanishing cream, tooth pastes, hair dyes and sunscreens.  |

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| Pharmacological Screening Methods                     | This subject is designed to impart the basic knowledge of preclinical studies in experimental animals including design, conduct and interpretations of results.   |
| Advanced Instrumentation Techniques                   | This subject deals with the application of instrumental methods in qualitative and quantitative analysis of drugs. This subject is designed to impart advanced knowledge on the principles and instrumentation of spectroscopic and chromatographic hyphenated techniques. This also emphasizes on theoretical and practical knowledge on modern analytical instruments that are used for drug testing. |
| Dietary Supplements And Nutraceuticals                | This subject covers foundational topic that are important for understanding the need and requirements of dietary supplements among different groups in the population.  |
| Elective Course On Pharmaceutical Product Development | This subject Impart the knowledge of pharmaceutical product development, objectives, regulations related to preformulation, formulation development, stability assessment, manufacturing and quality control testing of different types of dosage forms   |