



VIKAS INSTITUTE OF PHARMACEUTICAL SCIENCES

Near Airport, Nidigatla Road, Rajahmundry - 533102

(Approved by AICTE & PCI, New Delhi Affiliated to Andhra University, Vizag)



Course: Bachelor of Pharmacy

Duration: 4 years

Programme outcomes:

- 1) To provide essential knowledge pertaining to key principles involved in various Physicochemical and biological aspects of drugs and their implications.
- 2) To inculcate fundamental aspects about the genesis and importance of various materials used in formulation development and also for their pre-formulatory and biopharmaceutical assessment.
- 3) To impart essential skills required for the development of various formulations and to provide necessary training on basic skills to handle machinery and instruments needed for their fabrication, evaluation and marketing.
- 4) To ensure sustainability and perfection in aspects relating to pharmacodynamic and pharmacokinetic drug screening, usage of simulated practices for studying therapeutic ability of drugs.
- 5) To imbibe the prominence of a pharmacist in health care sector as a clinical pharmacist, community pharmacist etc. powered with good communication skills, hospital training and also by conducting health awareness programs to general public.

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SEMESTER - I

BP101T. HUMAN ANATOMY AND PHYSIOLOGY-I (Theory)

This subject is designed to impart fundamental knowledge on the structure and functions of the various systems of the human body. It also helps in understanding both homeostatic mechanisms. The subject provides the basic knowledge required to understand the various disciplines of pharmacy.

BP102T. PHARMACEUTICAL ANALYSIS (Theory)

This course deals with the fundamentals of analytical chemistry and principles of electrochemical analysis of drugs.

BP103T. PHARMACEUTICS- I (Theory)

This course is designed to impart a fundamental knowledge on the preparatory pharmacy with arts and science of preparing the different conventional dosage forms.

BP104T. PHARMACEUTICAL INORGANIC CHEMISTRY (Theory)

This subject deals with the monographs of inorganic drugs and pharmaceuticals.

BP105T. COMMUNICATION SKILLS (Theory)


This course will prepare the young pharmacy student to interact effectively with doctors, nurses, dentists, physiotherapists and other health workers. At the end of this course the student will get the soft skills set to work cohesively with the team as a team player and will add value to the pharmaceutical business.

BP 106RBT. REMEDIAL BIOLOGY (Theory)

To learn and understand the components of living world, structure and functional system of plant and animal kingdom.

BP 106RMT. REMEDIAL MATHEMATICS (Theory)

This is an introductory course in mathematics. This subject deals with the introduction to Partial fraction, Logarithm, matrices and Determinant, Analytical geometry, Calculus, differential equation and Laplace transform.


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SEMESTER - II

BP 201T. HUMAN ANATOMY AND PHYSIOLOGY-II (Theory)

This subject is designed to impart fundamental knowledge on the structure and functions of the various systems of the human body. It also helps in understanding both homeostatic mechanisms. The subject provides the basic knowledge required to understand the various disciplines of pharmacy.

BP202T. PHARMACEUTICAL ORGANIC CHEMISTRY –I (Theory)

This subject deals with classification and nomenclature of simple organic compounds, structural isomerism, intermediates forming in reactions, important physical properties, reactions and methods of preparation of these compounds. The syllabus also emphasizes on mechanisms and orientation of reactions.

BP203 T. BIOCHEMISTRY (Theory)

Biochemistry deals with complete understanding of the molecular levels of the chemical process associated with living cells. The purpose of the subject is providing biochemical facts and the principles to understand metabolism of nutrient molecules in physiological and pathological conditions. It is also emphasizing on genetic organization of mammalian genome and hetero & autocatalytic functions of DNA.

BP 204T.PATHOPHYSIOLOGY (THEORY)

Pathophysiology is the study of causes of diseases and reactions of the body to such disease producing causes. This course is designed to impart a thorough knowledge of the relevant aspects of pathology of various conditions with reference to its pharmacological applications and understanding of basic pathophysiological mechanisms. Hence it will not only help to study the syllabus of pathology, but also to get baseline knowledge required to practice medicine safely, confidently, rationally and effectively.

BP205 T. COMPUTER APPLICATIONS IN PHARMACY (Theory)

This subject deals with the introduction Database, Database Management system, computer application in clinical studies and use of databases.

BP 206 T. ENVIRONMENTAL SCIENCES (Theory)

Environmental Sciences is the scientific study of the environmental system and the status of its inherent or induced changes on organisms. It includes not only the study of physical and biological characters of the environment but also the social and cultural factors and the impact of man on environment.

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SEMESTER - III

BP301T. PHARMACEUTICAL ORGANIC CHEMISTRY –II (Theory)

This subject deals with general methods of preparation and reactions of some organic compounds. Reactivity of organic compounds are also studied here. The syllabus emphasizes on mechanisms and orientation of reactions. Chemistry of fats and oils are also included in the syllabus.

BP302T. PHYSICAL PHARMACEUTICS-I (Theory)

The course deals with the various physical and physicochemical properties, and principles involved in dosage forms/formulations. Theory and practical components of the subject help the student to get a better insight into various areas of formulation research and development, and stability studies of pharmaceutical dosage forms.

BP 303 T. PHARMACEUTICAL MICROBIOLOGY (Theory)

Study of all categories of microorganisms especially for the production of alcohol, antibiotics, vaccines, vitamins enzymes etc.

BP 304 T. PHARMACEUTICAL ENGINEERING (Theory)

This course is designed to impart a fundamental knowledge on the art and science of various unit operations used in pharmaceutical industry.

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SEMESTER - IV

BP401T. PHARMACEUTICAL ORGANIC CHEMISTRY –III (Theory)

This subject imparts knowledge on stereo-chemical aspects of organic compounds and organic reactions, important named reactions, chemistry of important hetero cyclic compounds. It also emphasizes on medicinal and other uses of organic compounds.

BP402T. MEDICINAL CHEMISTRY – I (Theory)

This subject is designed to impart fundamental knowledge on the structure, chemistry and therapeutic value of drugs. The subject emphasizes on structure activity relationships of drugs, importance of physicochemical properties and metabolism of drugs. The syllabus also emphasizes on chemical synthesis of important drugs under each class.

BP 403 T. PHYSICAL PHARMACEUTICS-II (Theory)

The course deals with the various physical and physicochemical properties, and principles involved in dosage forms/formulations. Theory and practical components of the subject help the student to get a better insight into various areas of formulation research and development, and stability studies of pharmaceutical dosage forms.

BP 404 T. PHARMACOLOGY-I (Theory)

The main purpose of the subject is to understand what drugs do to the living organisms and how their effects can be applied to therapeutics. The subject covers the information about the drugs like, mechanism of action, physiological and biochemical effects (pharmacodynamics) as well as absorption, distribution, metabolism and excretion (pharmacokinetics) along with the adverse effects, clinical uses, interactions, doses, contraindications and routes of administration of different classes of drugs.

BP 405 T. PHARMACOGNOSY AND PHYTOCHEMISTRY I (Theory)

The subject involves the fundamentals of Pharmacognosy like, classification of crude drugs, their identification and evaluation, phytochemicals present in them and their medicinal properties.

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SEMESTER - V

BP501T. MEDICINAL CHEMISTRY – II (Theory)

This subject is designed to impart fundamental knowledge on the structure, chemistry and therapeutic value of drugs. The subject emphasizes on structure activity relationships of drugs, importance of physicochemical properties and metabolism of drugs. The syllabus also emphasizes on chemical synthesis of important drugs under each class.

BP 502 T. Industrial Pharmacy-I (Theory)

This Course enables the student to understand and appreciate the influence of pharmaceutical additives and various pharmaceutical dosage forms on the performance of the drug product.

BP503.T. PHARMACOLOGY-II (Theory)

This subject is intended to impart the fundamental knowledge on various aspects (classification, mechanism of action, therapeutic effects, clinical uses, side effects and contraindications) of drugs acting on different systems of body and in addition, emphasis on the basic concepts of bioassay.

BP504 T. PHARMACOGNOSY AND PHYTOCHEMISTRY II (Theory)

The main purpose of subject is to impart the students the knowledge of how the secondary metabolites are produced in the crude drugs, how to isolate and identify and produce them industrially. Also this subject involves the study of producing the plants and phytochemicals through plant tissue culture, drug interactions and basic principles of traditional system of medicine

BP 505 T. PHARMACEUTICAL JURISPRUDENCE (Theory)

This course is designed to impart basic knowledge on important legislations related to the profession of pharmacy in India.

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SEMESTER - VI

BP601T. MEDICINAL CHEMISTRY – III (Theory)

This subject is designed to impart fundamental knowledge on the structure, chemistry and therapeutic value of drugs. The subject emphasis on modern techniques of rational drug design like quantitative structure activity relationship (QSAR), Prodrug concept, combinatorial chemistry and Computer aided drug design (CADD). The subject also emphasizes on the chemistry, mechanism of action, metabolism, adverse effects, Structure Activity Relationships (SAR), therapeutic uses and synthesis of important drugs.

BP602 T. PHARMACOLOGY-III (Theory)

This subject is intended to impart the fundamental knowledge on various aspects (classification, mechanism of action, therapeutic effects, clinical uses, side effects and contraindications) of drugs acting on respiratory and gastrointestinal system, infectious diseases, immuno-pharmacology and in addition emphasis on the principles of toxicology and chronopharmacology.

BP 603 T. HERBAL DRUG TECHNOLOGY (Theory)

This subject gives the student the knowledge of basic understanding of herbal drug industry, the quality of raw material, guidelines for quality of herbal drugs, herbal cosmetics, natural sweeteners, nutraceutical etc. The subject also emphasizes on Good Manufacturing Practices (GMP), patenting and regulatory issues of herbal drugs

BP 604 T. BIOPHARMACEUTICS AND PHARMACOKINETICS (Theory)

This subject is designed to impart knowledge and skills of Biopharmaceutics and pharmacokinetics and their applications in pharmaceutical development, design of dose and dosage regimen and in solving the problems arised therein.

BP 605 T. PHARMACEUTICAL BIOTECHNOLOGY (Theory)

- Biotechnology has a long promise to revolutionize the biological sciences and technology.
- Scientific application of biotechnology in the field of genetic engineering, medicine and fermentation technology makes the subject interesting.
- Biotechnology is leading to new biological revolutions in diagnosis, prevention and cure of diseases, new and cheaper pharmaceutical drugs.
- Biotechnology has already produced transgenic crops and animals and the future promises lotmore.
- It is basically a research-based subject.

BP606T PHARMACEUTICAL QUALITY ASSURANCE (Theory)

This course deals with the various aspects of quality control and quality assurance aspects of pharmaceutical industries. It deals with the important aspects like cGMP, QC tests, documentation, quality certifications and regulatory affairs.

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SEMESTER - VII

BP701T. INSTRUMENTAL METHODS OF ANALYSIS (Theory)

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.

BP 702 T. INDUSTRIAL PHARMACY-II(Theory)

This course is designed to impart fundamental knowledge on pharmaceutical product development and translation from laboratory to market

BP 703 T. PHARMACY PRACTICE (Theory)

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.

BP 704 T. NOVEL DRUG DELIVERY SYSTEMS (Theory)

This subject is designed to impart basic knowledge on the area of novel drug delivery systems.

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SEMESTER - VIII

BP801T. BIOSTATISTICS AND RESEARCH METHODOLOGY (Theory)

To understand the applications of Biostatics 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.

BP 802T 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 alsodiscussed.

BP803ET. PHARMA MARKETING MANAGEMENT (Theory)

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 and Product management.

BP804 ET PHARMACEUTICAL REGULATORY SCIENCE (Theory)

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

BP 805T PHARMACOVIGILANCE (Theory)


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 pharmacovigilanceprogramme 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.

BP 806 ET. QUALITY CONTROL AND STANDARDIZATION OF HERBALS (Theory)

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.

BP 807 ET. COMPUTER AIDED DRUG DESIGN (Theory)

This subject is designed to provide detailed knowledge of rational drug design process and various techniques used in rational drug design process.


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BP808ET CELL AND MOLECULAR BIOLOGY (Elective subject)

- 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 cellfunction.
- This is done both on a microscopic and molecularlevel.
- 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, andsponges.

BP809ET. COSMETIC SCIENCE (Theory)

Upon completion of the subject student shall be able to;

- Understand the design and properties ofCosmetics.
- Understand the effect of cosmetics on humanbody

BP810 ET. 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.

BP 811 ET. 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 drugtesting.

BP 812 ET. 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.

Semester VIII – Elective course on Pharmaceutical Product Development

Upon completion of the course the student shall be able to

- Understand the various product developmenttechniques
- Understand the Optimization techniques in pharmaceutical productdevelopment

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Course: Doctor of Pharmacy

Duration: 6 years

Program outcomes:

- To understand the elements of pharmaceutical care and provide comprehensive patient care services.
- To understand fundamental aspects of pharmacotherapy based on pathological abnormalities that occur in various diseases and disorders.
- To impart basic knowledge regarding the rational use of various drugs in treating the patient in a view to individualize drug therapy for a specific diagnosis.
- Identify the patient specific parameters relevant in initiating drug therapy, and monitoring therapy (including alternatives, time-course of clinical and laboratory indices of therapeutic response and adverse effect/s)
- To ensure effective communication of health related information to all healthcare professionals by providing patient counselling, identification and management of adverse drug reactions, conducting medication history interviews and reporting of medication errors.
- Impart knowledge on drug development process especially the phases of clinical trials and also the ethical issues involved in the conduct of clinical research.
- To ensure that effective, integrated and critically analyzed medicine and poison information is provided to healthcare professionals, which helps in the efficient patient management.

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DOCTOR OF PHARMACY

FIRST YEAR

1.1 HUMAN ANATOMY &PHYSIOLOGY:

Course outcomes:

This course is designed to impart a fundamental knowledge on the structure and functions of the human body. It also helps in understanding both homeostasis mechanisms and homeostatic imbalances of various body systems. Since a medicament, which is produced by pharmacist, is used to correct the deviations in human body, it enhances the understanding of how the drugs act on the various body systems in correcting the disease state of the organs.

1.2 PHARMACEUTICS

Courseoutcomes:

This course is designed to impart a fundamental knowledge on the art and science of formulating different dosage forms. It prepares the students for most basics of the applied field of pharmacy.

1.3 MEDICINAL BIOCHEMISTRY

Course outcomes:

This course deals with complete understanding of the molecular level of the chemical process associated with living cells. Clinical chemistry deals with the study of chemical aspects of human life in health and illness and the application of chemical laboratory methods to diagnosis, control of treatment, and prevention of diseases.

1.4 PHARMACEUTICAL ORGANIC CHEMISTRY

Course outcomes:

This course is designed to impart a very good knowledge about various chemical aspects of different classes of organic compounds.

1.5 PHARMACEUTICAL INORGANIC CHEMISTRY

Course outcomes:

This course mainly deals with fundamentals of Analytical Chemistry and also the study of inorganic pharmaceuticals regarding their monographs and also the course deals with basic knowledge of analysis of various pharmaceuticals.

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1.6 REMEDIAL MATHEMATICS/BIOLOGY

Course outcomes:(Mathematics)

This is an introductory course in mathematics. This subjects deals with the introduction to matrices, determinants, trigonometry, analytical geometry, differential calculus, integral calculus, differential equations, Laplacetransform.

Course outcomes:(Biology)

This is an introductory course in Biology, which gives detailed study of natural sources such as plant and animal origin. This subject has been introduces to the pharmacy course in order to make the student aware of various naturally occurring drugs and its history, sources, classification, distribution and the characters of the plants and animals. This subject gives basic foundation to Pharmacognosy.

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SECOND YEAR

2.1 PATHOPHYSIOLOGY

Course outcomes:

This course is designed to impart a thorough knowledge of the relevant aspects of pathology of various conditions with reference to its pharmacological applications, and understanding of basic Pathophysiological mechanisms. Hence it will not only help to study the syllabus of pathology, but also to get baseline knowledge of its application in other subjects of pharmacy.

2.2 PHARMACEUTICAL MICROBIOLOGY

Course outcomes:

This course deals with the various aspects of microorganisms, its classification, morphology, laboratory cultivation identification and maintenance. It also discusses with sterilization of pharmaceutical products, equipment, media etc. The course further discusses the immunological preparations, diseases its transmission, diagnosis, control and immunological tests. Microbiology has always been an essential component of pharmacy curriculum. This is because of the relevance of microbiology to pharmaceutical sciences and more specifically to pharmaceutical industry.

2.3 PHARMACOGNOSY & PHYTOPHARMACEUTICALS

Course outcomes:

This subject has been introduced for the pharmacy course in order to make the student aware of medicinal uses of various naturally occurring drugs its history, sources, distribution, method of cultivation, active constituents, medicinal uses, identification tests, preservation methods, substitutes and adulterants.

2.4 PHARMACOLOGY

Course outcomes:

This subject will provide an opportunity for the student to learn about the drug with regard to classification, pharmacodynamic and pharmacokinetic aspects, adverse effects, uses, dose, route of administration, precautions, contraindications and interaction with other drugs. In this subject, apart from general pharmacology, drugs acting on autonomic nervous system, cardiovascular system, central nervous system, blood and blood forming agents and renal system will be taught. In addition to theoretical knowledge, the basic practical knowledge relevant to therapeutics will be imparted.

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2.5

COMMUNITY PHARMACY

Course outcomes:

In the changing scenario of pharmacy practice in India, Community Pharmacists are expected to offer various pharmaceutical care services. In order to meet this demand, students will be learning various skills such as dispensing of drugs, responding to minor ailments by providing suitable safe medication, patient counselling, health screening services for improved patient care in the community setup.

2.6 PHARMACOTHERAPEUTICS

Course outcomes:

Pharmacotherapeutics is introduced for the first time in second of PharmD program. The whole disorders and diseases seen in human population were divided and introduced in second, third and fourth year of PharmD. This course is designed to impart knowledge and skills necessary for contribution to quality use of medicines. Chapters dealt cover briefly pathophysiology and mostly therapeutics of various diseases. This will enable the student to understand the pathophysiology of common diseases and their management.

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THIRD YEAR

3.1 PHARMACOLOGY

Course outcomes:

This subject will provide an opportunity for the student to learn about the drug with regard to classification, pharmacodynamic and pharmacokinetic aspects, adverse effects, uses, dose, route of administration, precautions, contraindications and interaction with other drugs. In this subject, drugs acting on autacoids, respiratory system, GIT, immune system and hormones, and pharmacology of autocoids and hormones will be concentrated. In addition, pharmacology of chemotherapeutic agents, vitamins, essential minerals and principles of toxicology are also taught. In addition to theoretical knowledge, the basic practical knowledge relevant to therapeutics will be imparted.

3.2 PHARMACEUTICAL ANALYSIS

Course outcomes:

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.

3.3 PHARMACOTHERAPEUTICS-II

Course outcomes:

This course is designed to impart knowledge and skills necessary for contribution to quality use of medicines. Chapters dealt cover briefly pathophysiology and mostly therapeutics of various diseases. This will enable the student to understand the pathophysiology of common diseases and their management.

3.4 PHARMACEUTICAL JURISPRUDENCE

Course outcomes:

This course exposes the student to several important legislations related to the profession of pharmacy in India. The Drugs and Cosmetics Act, along with its amendments are the core of this course. Other acts, which are covered, include the Pharmacy Act, dangerous drugs, medicinal and toilet preparation Act etc. Besides this the new drug policy, professional ethics, DPCO, patent and design Act will be discussed.

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3.5 MEDICINAL CHEMISTRY

Course outcomes:

The course deals with aspects like Quantitative Structure Activity Relationship (QSAR), prodrug, combinatorial chemistry and computer aided drug design (CADD) and concept of anti sense molecules. Along with these the students are also exposed to other aspects like mechanism of action, synthesis of important compounds, chemical nomenclature, brand names of important marketed products and their side effects.

3.6 PHARMACEUTICAL FORMULATIONS

Course outcomes:

This Subject deals with the formulation and evaluation of various pharmaceutical dosage forms. The student will be exposed various methods of formulations available for different kinds of pharmaceutical dosage forms along with basic principles behind their formulation.

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FOURTH YEAR

4.1 PHARMACOTHERAPEUTICS:

Course outcomes:

This course is designed to impart knowledge and skills necessary for contribution to quality use of medicines. Chapters dealt cover briefly pathophysiology and mostly therapeutics of various diseases. This will enable the student to understand the pathophysiology of common diseases and their management.

4.2 HOSPITAL PHARMACY

Course outcomes:

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 dispensing, manufacturing of parenteral preparations, drug information, patient counselling, and therapeutic drug monitoring for improved patient care.

4.3 CLINICAL PHARMACY

Course outcomes:

This course completely deals with the practice of pharmacy at the hospital settings by providing sound knowledge to students on various proceedings that happen in and around the hospital. It also highlights the importance of clinical pharmacist various aspects of drug use by inculcating concepts of drug and poison information services, pharmacovigilance, medication history interview, ward round participation, laboratory and clinical data assessment, patient counselling etc.

4.4 BIostatISTICS & RESEARCH METHODOLOGY

Course outcomes:

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.

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4.5 BIOPHARMACEUTICS & PHARMACOKINETICS

Course outcomes:

This subject is designed to impart knowledge and skills of Biopharmaceutics and

pharmacokinetics and their applications in pharmaceutical development, design of dose and dosage regimen.

4.6 CLINICAL TOXICOLOGY

Course outcomes:

This subject is designed to provide all necessary aspects of poison management and general principals involved behind them. It also deals with various poisonous substances and their remedial measures during any accidental exposure towards such substances. Synthetic chemicals, plant and animal toxins, drugs, heavy metals, radiation etc are all included in the subject and it offers a broader perspective of learning to the student.

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FIFTH YEAR

5.1 CLINICAL RESEARCH:

Course outcomes:

This course aims to provide the students an opportunity to learn drug development process especially the phases of clinical trials and also the ethical issues involved in the conduct of clinical research. Also, it aims to impart knowledge and develop skills on conceptualizing, designing, conducting and managing clinical trials.

5.2 PHARMACOEPIDEMIOLOGY & PHARMACOECONOMICS:

Course outcomes:

This subject deals with various applications of epidemiological methods in the field of pharmacy along with various sources that provide pharmacoepidemiologic data for the conduction of studies like vaccine safety, drug induced birth disorders etc. Pharmaco-economics on the other hand deals with effective application of therapeutic regimens by reducing the overall cost occurring due to the treatment.

5.3 CLINICAL PHARMACOKINETICS & PHARMACOTHERAPEUTIC DRUG MONITORING:

Course outcomes:

This course is designed to enable students to understand the basic principles and applications of pharmacokinetics in designing the individualized dosage regimen, to interpret the plasma drug concentration profile in altered pharmacokinetics, drug interactions and in therapeutic drug monitoring processes to optimize the drug dosage regimen. Also, it enables students to understand the basic concepts of pharmacogenetics, pharmacometrics for modeling and simulation of pharmacokinetic data.

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Course: Master of Pharmacy

Duration: 2 years

Program outcomes:

- To ensure advanced learning of specializations like Drug design and synthesis, dosage form technology, analytical techniques, herbal and phytochemical screening techniques, quality assurance and regulatory concerns, scale up techniques, drug use and their outcomes etc.
- To provide effective hands on training of pharmaceutical equipment and instruments along with their calibration and validation.
- to develop standard operating procedures for various instruments used in drug development and evaluation.
- To impart practical knowledge by designing experiments and development of protocols for formulation development, analytical method development and screening.
- To inculcate sound knowledge on research via conduction of journal clubs, seminars and research publications.

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(Approved by AICTE & PCI, New Delhi Affiliated to Andhra University, Vizag)



MASTER OF PHARMACY

COURSE: PHARMACEUTICS (MPH)

SEMESTER -I

MPH 101T: MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES

This subject deals with various advanced analytical instrumental techniques for identification, characterization and quantification of drugs. Instruments dealt are NMR, Mass spectrometer, IR, HPLC, GC etc.

MPH 102T: DRUG DELIVERY SYSTEMS

This course is designed to impart knowledge on the area of advances in novel drug delivery systems.

MPH 103T: MODERN PHARMACEUTICS

This Course designed to impart advanced knowledge and skills required to learn various aspects and concepts at pharmaceutical industries.

MPH 104T: REGULATORY AFFAIRS

Course designed to impart advanced knowledge and skills required to learn the concept of generic drug and their development, various regulatory filings in different countries, different phases of clinical trials and submitting regulatory documents.

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SEMESTER -II

MPH201T: MOLECULAR PHARMACEUTICS

This course is designed to impart knowledge on the area of advances in Nanotechnology and novel drug delivery systems.

MPH202T: ADVANCED BIOPHARMACEUTICS & PHARMACOKINETICS

This course is designed to impart knowledge and skills necessary for dose calculations, dose adjustments and to apply biopharmaceutics theories in practical problem solving. Basic theoretical discussions of the principles of biopharmaceutics and pharmacokinetics are provided to help the students to clarify the concepts.

MPH203T: COMPUTER AIDED DRUG DEVELOPMENT

This course is designed to impart knowledge and skills necessary for computer Applications in pharmaceutical research and development who want to understand the application of computers across the entire drug research and development process. Basic theoretical discussions of the principles of more integrated and coherent use of computerized information (informatics) in the drug development process are provided to help the students to clarify the concepts.

MPH204T: COSMETICS & COSMECEUTICALS

This course is designed to impart knowledge and skills necessary for the fundamental need for cosmetic and cosmeceutical products.

SEMESTER - III

MRM 301T: RESEARCH METHODOLOGY AND BIostatISTICS

This Course designed to impart advanced knowledge and develop the ability to apply the methods while working on a research project work and describe the appropriate statistical methods required for a particular research design. The subject also covers the how to choose appropriate research design and develop appropriate research hypothesis for a research project and also develop appropriate frame work for research studies.

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SEMESTER - II

MPA 201T: ADVANCED INSTRUMENTAL ANALYSIS

This subject deals with various hyphenated analytical instrumental techniques for identification, characterization and quantification of drugs. Instruments dealt are LC-MS, GC-MS, and hyphenated techniques.

MPA 201T: MODERN BIO-ANALYTICAL TECHNIQUES

This subject is designed to provide detailed knowledge about the importance of analysis of drugs in biological matrices.

MPA 203T: QUALITY ASSUARANCE & QUALITY CONTROL

This course deals with the various aspects of quality control and quality assurance aspects of pharmaceutical industries. It covers the important aspects like cGMP, QC tests, documentation, quality certifications, GLP and regulatory affairs.

MPA 204T: HERBAL COSMETIC ANALYSIS

This course is designed to impart knowledge on analysis of herbal products. Regulatory requirements, herbal drug interaction with monographs. Performance evaluation of cosmetic products is included for the better understanding of the equipment used in cosmetic industries for the purpose.

SEMESTER - III

MRM 301T: RESEARCH METHODOLOGY AND BIOSTATISTICS

This Course designed to impart advanced knowledge and develop the ability to apply the methods while working on a research project work and describe the appropriate statistical methods required for a particular research design. The subject also covers the how to choose appropriate research design and develop appropriate research hypothesis for a research project and also develop appropriate frame work for research studies.

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MASTER OF PHARMACY

COURSE: REGULATORY AFFAIRS (MRA)

SEMESTER -I

MRA 101T: GOOD REGULATORY PRACTICES

This course is designed to impart fundamental knowledge on various Good Regulatory Practices viz., cGMP, GLP, GALP and GDP for Pharmaceuticals, Cosmetics, Food & Nutraceuticals, Medical devices, In-vitro Diagnostic Medical Devices (IVDs) and biological products and understand the rationale behind these requirements and will propose ways and means of complying with them.

MRA 102T: DOCUMENTATION AND REGULATORY WRITING

This course is designed to impart fundamental knowledge on documentation and general principles involved in regulatory writing and submission to agencies.

MRA 103T: CLINICAL RESEARCH REGULATIONS

This course is designed to impart the fundamental knowledge on the clinical development process of drugs, pharmaceuticals and Medical Devices, phases and conduct of clinical trials and research, regulations and guidance governing the conduct of clinical research in India, USA and EU. It prepares the students to learn in detail on various laws, legislations and guidance related to safety, efficacy, ethical conduct and regulatory approval of clinical research.

MRA 104T: REGULATIONS AND LEGISLATION FOR DRUGS & COSMETICS, MEDICAL DEVICES, BIOLOGICALS & HERBALS, AND FOOD & NUTRACEUTICALS IN INDIA AND INTELLECTUAL PROPERTY RIGHTS

This course is designed to impart fundamental knowledge on regulations and legislation in India w.r.t. Drugs & Cosmetics, Medical Devices, Biologicals & Herbals, and Food & Nutraceuticals. It prepares the students for basic regulatory requirements in India of Drugs & Cosmetics, Medical Devices, Biologicals & Herbals, and Food & Nutraceuticals. For manufacture, import & registration, export, sale, marketing authorization, clinical trials and intellectual property rights.

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SEMESTER -II

MRA 201T: REGULATORY ASPECTS OF DRUGS & COSMETICS

This course is designed to impart the fundamental knowledge on the drug development process, regulatory requirements for approval of new drugs, drug products and cosmetics in regulated and semi-regulated countries. It prepares the students to learn in detail on the regulatory requirements, documentation requirements, and registration procedures for marketing the drug products and cosmetics in regulated and semi-regulated countries.

MRA 202T: REGULATORY ASPECTS OF HERBAL & BIOLOGICALS

This course is designed to impart fundamental knowledge on Regulatory Requirements, Licensing and Registration, Regulation on Labelling of Biologics in India, USA and Europe. It prepares the students to learn in detail on Regulatory Requirements for biologics, Vaccines and Blood Products

MRA203T: REGULATORY ASPECTS OF MEDICAL DEVICES

This course is designed to impart the fundamental knowledge on the medical devices and in vitro diagnostics, basis of classification and product life cycle of medical devices, regulatory requirements for approval of medical devices in regulated countries like US, EU and Asian countries along with WHO regulations. It prepares the students to learn in detail on the harmonization initiatives, quality and ethical considerations, regulatory and documentation requirements for marketing medical devices and IUDs in regulated countries.


MRA204T: REGULATORY ASPECTS OF FOOD & NUTRACEUTICALS

This course is designed to impart the fundamental knowledge on Regulatory Requirements, Registration and Labeling Regulations of Nutraceuticals in India, USA and Europe. It prepares the students to learn in detail on Regulatory Aspects for nutraceuticals and food supplements.

SEMESTER - III

MRM 301T: RESEARCH METHODOLOGY AND BIostatISTICS

This Course designed to impart advanced knowledge and develop the ability to apply the methods while working on a research project work and describe the appropriate statistical methods required for a particular research design. The subject also covers the how to choose appropriate research design and develop appropriate research hypothesis for a research project and also develop appropriate frame work for research studies.


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MASTER OF PHARMACY

COURSE: INDUSTRIAL PHARMACY (MIP)

SEMESTER -I

MIP 101T: MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES

This subject deals with various advanced analytical instrumental techniques for identification, characterization and quantification of drugs. Instruments dealt are NMR, Mass spectrometer, IR, HPLC, GC etc.

MIP 102T: PHARMACEUTICAL FORMULATION DEVELOPMENT

This Course designed to impart advanced knowledge and skills required to learn various aspects and concepts at pharmaceutical industries.

MIP 103T: NOVEL DRUG DELIVERY SYSTEMS

This course is designed to impart knowledge on the area of advances in novel drug delivery systems.

MIP 104T: INTELLECTUAL PROPERTY RIGHT

This Course designed to impart advanced knowledge and skills required to learn the concept of generic drug and their development, various regulatory filings in different countries, different phases of clinical trials and submitting regulatory documents.

SEMESTER -II

MIP 201T: ADVANCED BIOPHARMACEUTICS & PHARMACOKINETICS

This Subject deals with dose calculations, dose adjustments and to apply Biopharmaceutics theories in practical problem solving.

MIP 202T: SCALE UP AND TECHNOLOGY TRANSFER

This course is designed to impart knowledge and skills necessary to train the students to be on scale up, technology transfer process and industrial safety issues. Manage the scale up process in pharmaceutical industry and Assist in technology transfer, to establish safety guidelines, which prevent industrial hazards.

MIP 203T: PHARMACEUTICAL PRODUCTION TECHNOLOGY

This course is designed to impart knowledge and skills necessary to train the Students to be on par with the routine of industrial activities in production, handle the scheduled activities in a Pharmaceutical firm and manage the production of large batches of pharmaceutical formulations.

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MIP 204T: ENTREPRENEURSHIP MANAGEMENT

This course is designed to impart knowledge and skills necessary to train the students on entrepreneurship management. The Role of enterprise in national and global economy, Dynamics of motivation and concepts of entrepreneurship, Demands and challenges of Growth Strategies and Networking.

SEMESTER - III

MRM 301T: RESEARCH METHODOLOGY AND BIostatISTICS

This Course designed to impart advanced knowledge and develop the ability to apply the methods while working on a research project work and describe the appropriate statistical methods required for a particular research design. The subject also covers the how to choose appropriate research design and develop appropriate research hypothesis for a research project and also develop appropriate frame work for research studies.

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Course: Bachelor of Pharmacy Practice

Duration: 2 years

Programme outcomes:

- 1) To provide essential knowledge pertaining to key principles involved in various Physicochemical and biological aspects of drugs and their implications.
- 2) To inculcate fundamental aspects about the genesis and importance of various materials used in formulation development and also for their pre-formulatory and biopharmaceutical assessment.
- 3) To impart essential skills required for the development of various formulations and to provide necessary training on basic skills to handle machinery and instruments needed for their fabrication, evaluation and marketing.
- 4) To ensure sustainability and perfection in aspects relating to pharmacodynamic and pharmacokinetic drug screening, usage of simulated practices for studying therapeutic ability of drugs.
- 5) To imbibe the prominence of a pharmacist in health care sector as a clinical pharmacist, community pharmacist etc. powered with good communication skills, hospital training and also by conducting health awareness programs to general public.

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FIRST YEAR

1.1: PATHOPHYSIOLOGY AND PHARMACOTHERAPEUTICS - I

This subject is designed to impart fundamental knowledge on the structure and functions of the various systems of the human body. Practicing pharmacists will have opportunity to review the case notes or prescriptions in their practice setting and able to identify and resolve the drug related problems. This will ensure the improved patient care and decreases the unnecessary health care expenditure.

1.2: PATHOPHYSIOLOGY AND PHARMACOTHERAPEUTICS - II

This course is designed to impart a thorough knowledge of the relevant aspects of pathology of various conditions with reference to its pharmacological applications, and understanding of basic Pathophysiological mechanisms. Hence it will not only help to study the syllabus of pathology, but also to get baseline knowledge of its application in other subjects of pharmacy.

1.3: PHARMACY PRACTICE - I

This course is designed to impart a fundamental knowledge on understanding the pharmacist role in community, Hospital, clinical pharmacy areas. Practicing pharmacists have opportunity to provide various patient care services to improve the patient's health in community settings through counselling, health screening services, and other education programs.

1.4: PHARMACY PRACTICE - II

This subject deals with the hospital settings, pharmacists can ensure appropriate dispensing, education to patient, and provide all hospital pharmacy services including clinical pharmacy services such as drug information and ADR reporting.

1.5: APPLIED PHARMACEUTICS

This course is designed to impart a fundamental knowledge on different dosage forms and pharmacokinetic changes in the body. It helps the student to understand the basic concepts regarding, absorption, distribution, metabolism and excretion.

1.6: SOCIAL PHARMACY - I

To learn and understand the social responsibility of the pharmacists in the society and Practicing pharmacists have opportunity to provide various patient care services to improve the patient's health in the society. By monitoring the health of the individuals, providing them education about health, precautions, and pharmacists can improve their professional image.

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SECOND YEAR

2.1: PATHOPHYSIOLOGY AND PHARMACOTHERAPEUTICS - III

This subject is designed to impart fundamental knowledge on the Anatomy and physiology of the respective system. Practicing pharmacists will have opportunity to understand the disease process in their practice setting and able to know about the signs and symptoms of the disease. This will ensure the improved patient care by using various Therapeutic regimens.

2.2: PATHOPHYSIOLOGY AND PHARMACOTHERAPEUTICS - IV

This Subject is designed to give detailed Information about Women's Health

This course is designed to impart a thorough knowledge of the relevant aspects of oncology, dermatology, Ophthalmology conditions and screen the drugs for Pharmacological actions and asses the action of drugs. Hence it will help togetbaselineknowledgeofitsapplicationinothersubjectof **pharmacy**.

2.3: PHARMACY PRACTICE - III

This course is designed to impart a fundamental knowledge to Develop effective and ethical interaction with fellow health care professionals, in Hospitals, Community and the pharmaceutical Industry. In hospital settings, pharmacists can ensure appropriate dispensing, education to patient, and providing all hospital pharmacy services including clinical pharmacy services such as drug information and Pharmacovigilance.

2.4: PHARMACY PRACTICE - IV

This subject deals with the Practicing pharmacists have opportunity to provide Education and counselling to improve patient understanding of their medications, improve medication adherence, and detect adverse drug reactions. In hospital settings, pharmacists can ensure appropriate dispensing, and providing all hospital pharmacy services including clinical pharmacy services such as drug information and Pharmacovigilance.

2.5: PHARMACEUTICAL JURISPRUDENCE

This course is designed to impart basic knowledge on important legislations, Acts and rules related to the profession of pharmacy in India. This subject describes about the Pharmacy Act, Drugs and Cosmetics Act, Dangerous drugs act, Medicinal and Toilet preparation act, DPCO and Professional ethics.

2.6: SOCIAL PHARMACY - II

The purpose of this course is to understand the social responsibility of the pharmacists in the society and also provide professional services to the patients. The Pharmacist should participate in the implementation of National Health programmes and provide information about Preventive care of Diseases, Health and nutrition.

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Course: Doctor of Pharmacy (PB)

Duration: 3 years

Program outcomes:

- To understand the elements of pharmaceutical care and provide comprehensive patient careservices.
- To understand fundamental aspects of pharmacotherapy based on pathological abnormalities that occur in various diseases anddisorders.
- To impart basic knowledge regarding the rational use of various drugs in treating the patient in a view to individualize drug therapy for a specific diagnosis.
- Identify the patient specific parameters relevant in initiating drug therapy, and monitoring therapy (including alternatives, time-course of clinical and laboratory indices of therapeutic response and adverse effect/s)
- To ensure effective communication of health related information to all healthcare professionals by providing patient counselling, identification and management of adverse drug reactions, conducting medication history interviews and reporting of medicationerrors.
- Impart knowledge on drug development process especially the phases of clinical trials and also the ethical issues involved in the conduct of clinicalresearch.
- To ensure that effective, integrated and critically analyzed medicine and poison information is provided to healthcare professionals, which helps in the efficient patientmanagement.

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PHARM. D. POST BACCALAUREATE PROGRAM
(Inclusion of Pharmacotherapeutics I & II subject in the fourth year of the program)

4.7 PHARMACOTHERAPEUTICS I&II

Course outcomes:

Pharmacotherapeutics is introduced for the first time in second of PharmD program. The whole disorders and diseases seen in human population were divided and introduced in second, third and fourth year of PharmD. This course is designed to impart knowledge and skills necessary for contribution to quality use of medicines. Chapters dealt cover briefly pathophysiology and mostly therapeutics of various diseases. This will enable the student to understand the pathophysiology of common diseases and their management.

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