JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S

ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Approved by: Pharmacy Council of India, New Delhi &

Affiliated to The Tamilnadu Dr. M.G.R Medical University, Chennai.

Accredited by NAAC "A" Grade and ISO Certified

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Dr. N. SENTHILKUMAR, Ph.D.,
Principal

COURSE OUTCOMES

B.PHARM YEAR - I (SEMESTER - I)	
BP102T	**Pharmaceutical Analysis I – Theory**
CO - 1	The subject provides enough knowledge on basic concepts of quantitative and Qualitative analysis.
CO - 2	The subject provides enough knowledge on principles and applications of aqueous, non-aqueous titrimetric methods to evaluate purity of drugs.
CO - 3	The students learnt principles and applications of volumetric and electrochemical analysis methods to evaluate purity of drugs
CO - 4	The subject provides enough knowledge on principles and applications of redox titrations involved in the quantitative analysis of drugs.
CO - 5	The students have enough knowledge on principles and applications of complexometric and precipitation titrations to evaluate purity of drugs
BP108 P	**Pharmaceutical Analysis I – Practical**
CO - 1	The students can able to prepare and standardize solutions with different strength.
CO - 2	Can Perform volumetric analysis such as acidimetric and alkalimeter, oxidation and reduction, complexmetric, precipitation and non-aqueous titration
CO - 3	Understood the history and concept of pharmacopoeia and its editions
CO - 4	Gained knowledge on limit tests of different pharmaceutical inorganic compounds
CO - 5	Perform electro-Analytical methods

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COURSE OUTCOMES

PHARM.D YEAR - I	
1.2	**Pharmaceutics (THEORY)**
CO - 1	Understand the basics of different dosage forms.
CO - 2	Understand the professional way of handling the prescription
CO - 3	Prepare various conventional dosage forms
CO - 4	Develop a clear idea about Pharmaceutical incompatibility and different pharmaceutical calculations in pharmacy.
CO - 5	Predict the instability problems in heterogeneous dosage forms
1.2	**Pharmaceutics (PRACTICAL)**
CO - 1	Understand the professional way of preparing a prescription
CO - 2	Prepare various liquid dosage forms
CO - 3	Prepare various solid dosage forms
CO - 4	Acquire the knowledge of using equipment's in pharmaceutical industry
CO - 5	Develop a clear idea about Pharmaceutical incompatibility and different pharmaceuticalcalculations in pharmacy.

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COURSE OUTCOMES

M.PHARM (PHARMACEUTICS) - YEAR - I (SEMESTER - I)	
MPH102T	**Drug Delivery System**
CO - 1	The various approaches for development of novel drug delivery systems.
CO - 2	The criteria for selection of drugs and polymers for the development of delivering system
CO - 3	Evaluate drug delivery systems for physic-chemical characteristics, in vitro and in vivo drug release
CO - 4	Formulate and design controlled release and sustained release drug delivery systems.
CO - 5	Conduct stability studies for dosage forms as per prescribed guidelines

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M.PHARM (PHARMACEUTICAL CHEMISTRY) - YEAR - I (SEMESTER - I)	
MPC103T	**Advanced Medicinal chemistry**
CO - 1	Applied basic knowledge of pharmaceutical chemical aspects of drugs that are in clinical use in defining, analyzing and proposing actions related to the research and implementation of new laboratory methods for detecting and monitoring diseases and effects or efficacy of the therapy.
CO - 2	Learnt the discovery of lead molecules and rational drug discovery models.
CO - 3	Development of enzyme inhibitors
CO - 4	Provided insight knowledge on prodrug design and analog design.
CO - 5	Gained advance knowledge on enzyme inhibitors.

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M.PHARM (PHARMACEUTICAL ANALYSIS) - YEAR - I (SEMESTER - I)	
MPA103T	**Pharmaceutical Validation**
CO - 1	The Students learnt on the importance of validation & gain knowledge on how validation is carried for various components. Such as instrument validation, cleaning validation and process validation.
CO - 2	The student learns on the importance of patent and intellectual property rights
CO - 3	The students are trained on the qualification aspects of instruments
CO - 4	The importance of calibration to be performed for the instruments
CO - 5	The various validation aspects to be carried out in the industry

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M.PHARM (PHARMACEUTICAL REGULATORY AFFAIRS) YEAR - I (SEMESTER - I)	
MRA102T	**Documentation and Regulatory Writing**
CO - 1	Know the various documents pertaining to drugs in pharmaceutical industry
CO - 2	Understand the basics of regulatory compilation
CO - 3	Create and assemble the regulation submission as per the requirements of agencies
CO - 4	Follow up the submissions and post approval document requirements

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M.PHARM (PHARMACY PRACTICE) - YEAR - I (SEMESTER - I)	
MPP102T	**Pharmacotherapeutics - I**
CO - 1	Describe and explain the rationale for drug therapy
CO - 2	Summarize the therapeutic approach for management of various disease conditions including reference to the latest available evidence
CO - 3	Discuss the clinical controversies in drug therapy and evidence-based medicine
CO - 4	Prepare individualized therapeutic plans based on diagnosis
CO - 5	Identify the patient-specific parameters relevant in initiating drug therapy, and monitoring therapy of Gastrointestinal system, Cardiovascular system, Respiratory system, Hematological diseases, Bone and joint disorders, Dermatological Diseases & Ophthalmology

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M.PHARM (PHARMACOLOGY) - YEAR - I (SEMESTER - I)	
MPL103T	**Pharmacological and Toxicological Screening Methods - I**
CO- 1	Students will be able to appraise the regulations and ethical requirement for the usage of experimental animals
CO- 2	Students will be able to describe the various animals used in the drug discovery process
CO- 3	Students will be able to describe good laboratory practices in maintenance and handling of experimental animals
CO- 4	Students will be able to describe the various newer pre-clinical screening methods involved in the drug discovery process
CO- 5	Students will be able to appreciate and correlate the preclinical data to humans

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M.PHARM (PHARMACOGNOSY) - YEAR - I (SEMESTER - I)	
MPG103T	**Phytochemistry**
CO - 1	The subject provides enough knowledge on Develop an understanding of the physico-chemical properties of drugs.
CO - 2	Understood how current drugs were developed by using pharmacophore modeling and docking technique
CO - 3	Acquired knowledge in the chemotherapy for cancer and microbial diseases and different anti-viral agents
CO - 4	Acquired knowledge about the mechanism pathways of different class of medicinal compounds
CO - 5	Introduced to a variety of drug classes and some pharmacological properties

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