



First Year M. Pharmacy (SEM- I)

Name of the course: Modern Pharmaceutical Analysis Techniques (Theory)

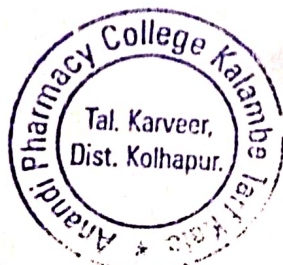
[MPH 101 T]

After completion of this course student will be able to:

Code	Course Outcome
MPH 101.1	Students will understand theoretical aspects of UV- Visible Spectroscopy, IR, Spectrofluorimetry, Atomic Absorption and flame emission spectroscopy.
MPH 101.2	The students will learn the practical skills for the analysis of drugs or excipients using various instrumentation techniques.
MPH 101.3	Students will get knowledge about instrumentation, working and applications of Mass and NMR spectroscopy.
MPH 101.4	students impart wide knowledge in students on various chromatographic techniques, electrophoresis methods, Xray Crystallography and Immunoassays
MPH 101.5	The students shall understand and apply the knowledge in Thermal techniques, electrophoresis methods, X-ray Crystallography technique and Immunoassay

Mapping of course outcomes with program outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPH 101.1	3	1	2	3	-	-	-	-	2	-	-
MPH 101.2	3	-	2	1	-	-	-	-	2	-	-
MPH 101.3	3	1	2	3	-	-	-	-	2	-	-
MPH 101.4	3	2	2	2	-	-	-	-	2	-	-
MPH 101.5	3	2	2	2	-	-	-	-	2	-	-
Total	15	6	10	8	-	-	-	-	10	-	-
Average	3	1.2	2	1.6	-	-	-	-	2	-	-





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Pharmaceutics (SEM I) - First Year M-Pharmacy

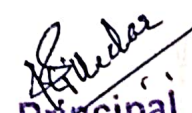
Course outcome (COs) DDS Theory (MPH 102 T)

Course Name	(Pharmaceutics)	Year of Study	2023-2024
C 102.1	Apply the knowledge in different novel drug delivery system to overcome current challenges present in market for formulations		
C 102.2	To know different types of advancement in drug delivery system to increase bioavailability and stability of formulation		
C 102.3	Analysis and interpretation of data related to marketed available formulations and need of development in them		
C 102.4	To know different excipients as components used in development of novel drug delivery system		
C 102.5	Apply the knowledge for researcher activities to be carried out for innovation of novel formulations		

Course outcome (COs) Pharmaceutics Practical (MPH 105 P)

Course Name	(Pharmaceutics)	Year of Study	2023-2024
C 105.1	Apply the knowledge for analysis effect of different components in formulation with respect to its dissolution study		
C 105.2	Knowledge of different excipients and their roles in formulation		
C 105.3	Gain in knowledge preformulation and micrometrics study and its significance in formulation development.		




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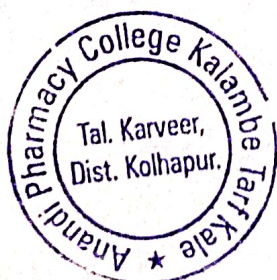


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COURSE OUTCOMES OF M. PHARMACY
MPH103T Modern Pharmaceutics I (First Year M.Pharm)

Course Name/Code	MPH103T_Modern Pharmaceutics_I- Theory	Year of Study	2023-24
MPH103T.1	Understand the concept of preformulation and optimization studies and its role in formulation development.		
MPH103T.2	Know the ICH and WHO guidelines for calibration and validation of equipments.		
MPH103T.3	Know the concept of Total Management and GMP Considerations in order to obtain a quality product		
MPH103T.4	Understand the importance of materials management and production management in pharmaceutical industries.		
MPH103T.5	Understand the fundamental physical concepts and processes involved in tableting and to comprehend the role of dissolution studies and its interpretation for understanding drug release kinetics.		



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COURSE OUTCOMES OF M. PHARMACY (Pharmaceutics)

First Year M. Pharmacy (SEM-I)

Course Name	MPC104T(Regulatory Affair - Theory)	Year of Study	2023-2024
Students will be able to:			
MPH104T.1	To recall the concept of drug product development, innovator and generic products, their drug master file		
MPH104T.2	To outline the scale up post approval changes, post marketing surveillance and outsourcing of bioavailability studies to CRO		
MPH104T.3	To apply the regulatory agencies like USFDA, EU, MHRA, TGA and ROW countries for product approval		
MPH104T.4	To compare the development of the medicinal goods dossier, the filing process for IND, NDA and ANDA and the CTD and eCTD formats for combination products and medical devices		
MPH104T.5	To improve the capacity to develop clinical trial protocol, Pharmacovigilance and safety monitoring in clinical trial		



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Pharmaceutics (SEMII) - First Year M-Pharmacy


Course outcome (COs) Molecular Pharmaceutics Theory (MPH (MPH 201T))

Course Name	(Pharmaceutics)	Year of Study	2023-2024
C 201.1	Apply the knowledge in various approaches for targeted drug delivery system development		
C 101.2	To know different types of nano formulation and its significance in formulation development.		
C 201.3	To understand different novel drug delivery system and development of different formulations		
C 101.4	To understand different excipients as components used in development of novel drug delivery system		
C 101.5	Apply the knowledge in gene therapy for specific targeted disorders		

Course outcome (COs) Pharmaceutics Practical ((MPH 205P))

Course Name	(Pharmaceutics)	Year of Study	2023-2024
C 205.1	Apply the knowledge in formulations of different cosmoceutical products		
C 205.2	Knowledge of different excipients and their utility in formulation		
C 205.3	Gain in knowledge about quality by design		




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COURSE OUTCOMES OF M. PHARMACY

First Year M. Pharmacy (SEM-II)

Course Name/Code	MPH 202T Advanced Biopharmaceutics & Pharmacokinetics Theory	Year of Study	2023-2024
MPC202.1	Enumerate the basic concepts in biopharmaceutics and pharmacokinetics.		
MPC202.2	Illustrate the use raw data and derive the pharmacokinetic models and parameters that best describe the process of drug absorption, distribution, metabolism, and elimination.		
MPC202.3	Assess the critical evaluation of biopharmaceutic studies involving drug product equivalency.		
MPC202.4	Analyze the design and evaluation of dosage regimens of the drugs using pharmacokinetic and biopharmaceutic parameters.		
MPC202.5	Evaluate the potential clinical pharmacokinetic problems and application of basics of pharmacokinetic.		



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COURSE OUTCOMES OF M. PHARMACY
MPH203T COMPUTER AIDED DRUG DELIVERY SYSTEM
(First Year M.Pharm)

Course Name/Code	MPH203T computer aided drug delivery system	Year of Study	2023-24
MPH203T.1	To study the role of computers and quality by design concepts in pharmaceutical research and formulation development.		
MPH203T.2	To learn computational modelling techniques of drug deposition		
MPH203T.3	To inculcate the knowledge of innovative uses of computer in formulation development and market analysis		
MPH203T.4	To interpret computer aided biopharmaceutical characterization using computer simulations during clinical development		
MPH203T.5	To apprehend the importance of artificial intelligence, robotics and computational fluid dynamics in pharmaceutical automation.		



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COURSE OUTCOMES OF M. PHARMACY (Pharmaceutics)

First Year M. Pharmacy (SEM-II)

Course Name	MPH204T (Cosmetic and Cosmeceutical - Theory)	Year of Study	2023-2024
Students will be able to:			
MPH204T.1	To remember Indian regulatory requirements for manufacture, sale, import and labeling of cosmetics		
MPH204T.2	To outline the biological aspects of cosmetics, basic structure, function, common problem associated with skin, hair and oral cavity.		
MPH204T.3	To apply the principles of formulation building blocks for different cosmetic products.		
MPH204T.4	To justify the cosmeceutical products for solving problems related to skin, hair and oral cavity.		
MPH204T.5	To elaborate the regulatory guidelines for herbal cosmetics herbal ingredients used in hair care, skin care and oral care		



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