- 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the Institution are Stated and displayed on website and attainment of Pos and Cos are evaluated
- PO 1 Pharmaceutical Sciences knowledge: Apply the knowledge of mathematics, science, pharmaceutical fundamentals, and a Pharmacy specialization to the solution of complex Pharmaceutical problems.
- PO 2 Physicochemical properties of Formulations: The knowledge of importance of physical properties of the different pharmaceutical ingredients and the factors influencing them is very valuable for pharmaceutical dosage form design.
- **PO 3 Unit Operations:** Pharm. Engineering renders knowledge about the basic unit operations that are taking place in pharmaceutical industry and the different factors associated with it. This information is useful for both pharmaceutics and pharmaceutical engineering.
- **PO 4 Entrepreneurship:** The knowledge on different pharmaceutical dosage forms are imparted on students. This knowledge comes while handling a pharmacy or a manufacturing unit or in the further courses.
- PO 5 Design/Development of solutions: The information on solid dosage forms like tablets and capsules, their formulation and quality control serves as an important perquisite for dosage form design.
- **PO 6 Application oriented Knowledge:** The knowledge of biopharmaceutics enables the students to visualize the effect of pharmacokinetic (ADMET) parameters on the biological effect of the drug. The correlation of pharmacokinetics and pharmacodynamics is thus introduced and is experimentally explained to them.
- PO 7 Environment and Sustainability: Enable extension of pharmaceutical dosage forms, and enables the students to learn about different packaging materials used in pharmaceutical industry and the factors governing their use.
- **PO 8 Conduct investigations of complex problems:** To understand biopharmaceutical principles and pharmacokinetic principles through different compartment models, multiple dosage regimens, non-linear pharmacokinetics, and assessment of bioavailability and bioequivalence
- **PO9** Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

PO10 Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them

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PSO1: Impart knowledge on the novel drug delivery systems, approaches, criteria for selection of polymers and drugs and their formulation and evaluation

PSO2: To impart knowledge and skills in generic drug development, various regulatory filings the approval process, and concept of generics across the globe



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M PHARM 1&II SEM COURSE OUTCOMES FOR THE ACADEMIC YEAR 2022-23

PHARMACEUTICS

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S.NO	YEAR/SEM	COURSE NAME	COURSE OUTOMES
			CO1: Biopharmaceutics and pharmacokinetics and their significance.
1.	I-I	APPLIED	CO2: Use plasma drug concentration-time data to calculate the pharmacokinetic
		BIOPHARMACEUTICS	parameters to describe the kinetics of drug absorption, distribution, metabolism, excretion, and elimination.
		AND	CO3: To understand the bioavailability and bioequivalence of drug products and their
		PHARMACOKINETICS	significance. CO4: Develop entrepreneurship skills that support the growth of the Pharmaceutical Industry
2		MODERN	CO1: Knowledge on pre formulation concepts and optimization techniques
2.	I-I	MODERN PHARMACEUTICS	CO2: Knowledge on pharmaceutical validation
			CO3: Knowledge on cGMP & Industrial Management
			CO4: Knowledge on compression and compaction Knowledge on compression and compaction
3.	I-I	ADVANCED PHYSICAL PHARMACEUTICS	CO1: The students will know particle size analysis method, solid dispersion, physics of tablets, polymer classification and its applications
		PHARMACEUTICS	CO2: student will also know the stability calculations, shelf life calculations and accelerated stability studies.
٠.			CO3: They also know the rheology, absorption related to liquids and semi-solid dosage forms.
The state of the s	PHARMACEUIA		CO4: They also know the factors affecting the dissolution and solubility in related to
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Г			Linguita / invites completions
			invitro/invivo correlations
			CO1: Explain the aspect of validation
4	I-I	PHARMACEUTICAL VALIDATION	CO2: Carryout validation of manufacturing processes CO3: Apply the knowledge of validation to instruments and equipments
5.	I-I	RESEARCH METHODOLOGY AND IPR	CO1: Understand research problem formulation. CO2: Analyze research related information. CO2: Follow research ethics
			CO4: Understand that today's world is controlled by Computer, Information Technology, but tomorrow world will be ruled by ideas, concept, and creativity.

S.NO	YEAR/SEM	COURSE NAME	COURSE OUTOMES
1.	I-II	MODERN PHARMACEUTICS - II	CO1: students will understand the planning of pilot plant techniques used for all pharmaceutical dosage forms such as tablets, capsules, parenterals, aerosols, cosmetics and nutraceuticals
2.	I-II	ADVANCED DRUG DELIVERY SYSTEMS	CO1: Students will select the drugs for CDDS design of the formulation fabrication of systems of above drug delivery systems with relevant applications.
3.	I-II	HERBAL COSMETICS	CO1: Students will learn about the raw materials used in herbal cosmetics and get exposed to various preparations of herbal cosmetics.
4.	I-II	NUTRACEUTICALS	CO1: Helps the student to understand the importance of Nutraceuticals in various common problems with the concept of free
(O	PHARMACEU		radicals

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S.NO	YEAR/SEM	COURSE NAME	COURSE OUTOMES
		SCALE UP AND	CO1: Manage the scale up process in pharmaceutical industry.
1.	II-I	TECHNOLOGY	CO2: Assist in technology transfer.
		TRANSFER	CO3: To establish safety guidelines, which prevent industrial hazards.
2.	II-I	COSMETIC SCIENCE	CO1: Formulate and evaluate various cosmeceutical product.
			CO2: Know the key components used in different cosmeceutical products.
			CO3: Recognize the role of ingredients and herbs used in cosmeceutical products.



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ANALYSIS

S.NO	YEAR/SEM	COURSE NAME	COURSE OUTOMES
		MODERN	CO1: The quantitative determination of various organic compounds is clearly
		PHARMACEUTICAL	understood. The spectral analysis,
1.	I-I	ANALYSIS	dissolution parameters and microbial assays are also learned.
		ANALISIS	assays are also realised.
			CO1: Pharmaceutical food analysis.
2.	I-I	PHARMACEUTICAL	CO2: Food additives.
۷.	1-1	FOOD ANALYSIS	CO21 FOOD HADRITYCO.
		- TOOD ANALTSIS	CO3: Pesticides in food Pharmaceutical (API & Dosage forms).
			CO4: Also student shall have the
			knowledge on food regulations and legislations.
_			
3.	I-I	ADVANCED	CO1: The quantitative determination of various organic compounds is clearly
		PHARMACEUTICAL	understood. The spectral analysis,
		ANALYSIS	dissolution parameters and microbial
			assays are also learned.
			CO1: Explain the aspect of validation
	I-I		CO2: Carryout validation of
4		PHARMACEUTICAL	manufacturing processes
-	1-1	VALIDATION	
		ALDATION	CO3: Apply the knowledge of validation
			to instruments and equipments
			CO1: Understand research problem
			formulation.
5.	I-I	RESEARCH	
		METHODOLOGY AND	CO2: Analyze research related
		IPR	information.
			CO2: Follow research ethics
			COA. Understand that today's weeld in
			CO4: Understand that today's world is controlled by Computer, Information
	_		Technology, but tomorrow world will be
DAMMAN	EUM		ruled by ideas, concept, and creativity.

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S.NO	YEAR/SEM	COURSE NAME	COURSE OUTOMES
		ADVANCED	CO1: students will come out with the thorough knowledge of various spectral aspects of X-Ray, IR, SEM, ORD etc
-	7 17	INSTRUMENTAL	which help them in further projects works and also industrial opportunities.
1.	I-II	ANALYSIS – I	and also industrial opportunities.
2.	I-II	PHARMACEUTICAL QUALITY CONTROL AND QUALITY ASSURANCE	CO1: study of this subject builds the confidence in the minds on the students to develop and formulate high quality pharmaceutical products
			CO1: Students will learn about the raw materials used in herbal cosmetics and get
3.	I-II	HERBAL COSMETICS	exposed to various preparations of herbal cosmetics.
4.	I-II	NUTRACEUTICALS	CO1: Helps the student to understand the importance of Nutraceuticals in various common problems with the concept of free radicals

S.NO	YEAR/SEM	COURSE NAME	COURSE OUTOMES
		SCALE UP AND	CO1: Manage the scale up process in pharmaceutical industry.
1.	II-I	TECHNOLOGY	CO2: Assist in technology transfer.
		TRANSFER	CO3: To establish safety guidelines, which prevent industrial hazards.
2.	II-I	COSMETIC SCIENCE	CO1: Formulate and evaluate various cosmeceutical product. CO2: Know the key components used in different cosmeceutical products.
			CO3: Recognize the role of ingredients and herbs used in cosmeceutical products.



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