CHOICE BASED CREDIT SYSTEM (CBCS) SEM VI (2016 SYLLABUS)

Sr.No.	Code	Name of Subject	Course outcome
			1. Learner should able to identify and study the suitable drug targets for
43	BPH C 601 T	PHARMACEUTICAL CHEMISTRY- I	treatment of disorders
			2. Learner should able to identify the relationship between the physicochemical
			properties of the chemical entity and biological response
			3. Learner should able to draw a schematic metabolic pathway for any given
			drug
			4. Learner should able to identify the SAR of all the classes of antimalarial,
			antitubercular, anti-infective, antibiotic, antiparasitic disorders
			1.Learner should able to know the various solid oral dosage forms and their
	BPH C 602 T	PHARMACEUTICS III	manufacturing techniques
			2. Learner should able to know various considerations in development of
			pharmaceutical dosage forms including stability
44			3. Learner should able to formulate solid dosage forms and evaluate them for
			their quality
			4. Learner should able to understand the responsibilities of quality assurance &
			quality control departments
			5. Learner should able to appreciate the importance of documentation
	BPH C 603 T		1. Learner should able to comprehend underlying principle, instrumentation,
			application and limitations in instrumental techniques involving molecular as well as atomic absorption and emission techniques such as UV-Visible,
			Fluorescence, Infra-Red, Raman, Atomic absorption spectroscopy and Atomic
		PHARMACEUTICAL ANALYSIS II	emission spectroscopy
45			Learner should able to explain fundamentals, working principle and
			applications of X-ray diffraction technique, potentiometric titrations and thermal
			methods of analysis like TG, DSC and DTA
			3. Learner should able to generalize the concepts and quality control aspects
			related to radiopharmaceuticals
			4. Learner should able to calculate and interpret the results for spectral analysis
			and statistical data analysis.
			1. Learner should able to explain the concept of adulteration and substitution in
			crude drugs, extraction process for phyto-constituents using different methods
			and principles.
			2. Learner should able to write the source, composition, general methods of
	ВРН С 604 Т	PHARMACOGNOSY II	extraction, evaluation, chemical tests, therapeutic uses of crude drugs containing volatile oils, resins and tannins
			3.Learner should able to write the biosynthesis of monoterpenoids and
46			phenypropanoid constituents of volatiles
			Learner should able to understand the chemistry of phytoconstituents
			belonging to the classes of terpenoids, sulfur containing constituents and
			quinones and write source composition and structures of phytoconstituents of
			crude drugs belonging to these classes
			5. Learner should able to write the significance of excipients of natural origin,
			used in pharmaceutical formulations and describe various classes of excipients
			like binders, colours, sweetners and flavorants along with the examples of their

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			6. Learner should able to describe the applications of plant tissue culture techniques with respect to production of secondary metabolites and edible
			vaccines.
			1. The leaner should be able to understand different compound synthesis by
			acetylation
4	DDII G (05 I	PHARMACEUTICAL	2. The leaner should be able to study Halogenation – Synthesis of p-
47	BPH C 605 L	CHEMISTRY LAB I	bromoacetanilide
			3. The leaner should be able to acquired knowledge of hydrolysis of methyl
			4 The leaves should be able to study Esterification of DADA to benzessing
			4.The leaner should be able to study Esterification of PABA to benzocaine1. Learner should able to formulate solid dosage forms like tablets and capsules
			and evaluate them for their quality.
48	BPH C 606 L	PHARMACEUTICS LAB III	2.Learner should able to understand the tablet coating process.
			3. Learner should able to learn the concepts of accelerated stability testing and
			shelf life calculations.
			1. Learner should able to record the absorbance and calculate concentration of
	BPH C 607 L	PHARMACEUTICAL ANALYSIS LAB II	analyte in formulation or as an API by use of A(1%, 1cm), single point and
			double point standardisation by UV spectrophotometer.
			2.Learner should able to relate and construct linear regression analysis data for
			colorimetric assays and operate a colorimeter instrument
			3.Learner should able to record and calculate the concentration of an analyte by
49			measure of fluorescence of an analyte in absence and presence of quenching
			agent
			4. Learner should able to operate a pH meter, measure equivalence point by
			potentiometric titration, calculate pKa and normality for a given acid or mixture
			of acids
			5. Learner should able to understand the sample preparation technique for FTIR
			spectroscopy, interpret the IR spectra to identify the functional groups of an
			analyte, and understand the working of a flame photometer
			Learner should able to explain the basic terms used in Biopharmaceutics and Pharmacokinetics
			Learner should able to understand the concept of pharmacokinetics models
		BIOPHARMACEUTIC	and significance of various pharmacokinetic parameters
_		S AND	3. Learner should able to understand BCS Classification, theories of Dissolution
50	BPH E 609 T	·= ·	and methods of dissolution testing
		S	Learner should able to explain the concepts of Bioavailability and
			Bioequivalence and IVIVC
			5. Learner should able to solve problems based on principles of
			Pharmacokinetics
			1. Learner should able to define, classify and elaborate on regulatory aspects of
51	BPH E 613 T	PHARMACEUTICAL EXCIPIENTS	Pharmaceutical excipients.
			2. Learner should able to understand the characterization and interactions of
			excipients with APIs and packaging materials
			3. Learner should able to elaborate on common and novel excipients in
			Pharmaceuticals
			4. Learner should able to explain the role of polymers as excipients