PROGRAM OUTCOMES

Program Outcomes (PO's) for the programs of our institute is structured as per National Board of Accreditation (NBA) guidelines. It is as follows:

PO1: Pharmacy Knowledge	PO7: Pharmaceutical Ethics
PO2: Planning Abilities	PO8: Communication
PO3: Problem Analysis	PO9: The Pharmacist and society
PO4: Modern tool usage	PO10: Environment and
PO5: Leadership skills	sustainability
PO6: Professional Identity	PO11:Life-long learning

PROGRAM SPECIFIC OUTCOME

Program specific outcome (PSO's) is prepared by the institute to attain the attributes of PO's.

It is as follows:

PSO1: The graduate of this program will be competent enough to effectively and successfully participate in all facets of manufacturing process of pharmaceuticals.

PSO2: The graduate of this program will be enriched with adequate therapeutic knowledge of the drug molecule to effectively participate in the healthcare system.

PSO3: The graduate of this program will have innovative mind set and knowledgably enriched to efficiently contribute to the research.

PSO4: The graduate of this program will have ethical, societal and environmentally conscious behavior.

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			Kam		llege of Pharmacy, Biutibori, Nagpur				
course Outcome 2022-2023									
Program		Course	Course Name	Year of	Course Outcomes				
code		code		introducti					
	Name			on					
Bpharm	Seme	BP101T	Human Anatomy	2017-18	Upon completion of this course the student should be able to				
	ster I		and Physiology		1. Define and explain the anatomy and physiology, various levels of organizations				
			I–Theory		basic homeostatic mechanism.				
					2.Explain the morphology, physiology of skeletal system along with the				
	÷.				physiology of muscle contraction in co-ordination with the joints, their				
					articulation and skin.				
					3.Explain and describe the composition, function of various body fluids like				
					blood and lymph, their significance and related disorders.				
					4. Classify the peripheral nervous system, nerves and morphology of special				
					senses.				
•					5.Explain the anatomy and physiology and parameters related to CVS and related				
Bpharm		BP102T	Pharmaceutical	2017-18	Upon completion of the course student shall be able to				
			Analysis I –		1. To understand the principles of volumetric and gravimetric analytical				
			Theory		techniques				
				.e	2. To gain knowledge of sources of errors and minimizing techniques.				
					3. To analyze the techniques of volumetric and gravimetric analysis.				
				- 4.	4. To explain about accuracy, precision and significant figure error concepts				
					5. To compute analytical results and understand the physiochemical concepts of				
ť					analysis, theories of acids and bases, stoichiometry etc.,				



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Bpharm		BP103T	Pharmaceutics I –	2017-18	Upon completion of this course the student should be able to:
			Theory		1. Understand the history and development of pharmacy profession and to know
					the pharmacopoeias and various to Dosage forms.
					2: Understand the prescription and its handling, posology and drug doses
					calculations.
					3: Understand Pharmaceutical calculations, systems of weights and measures and
					solid dosage and semisolid dosage forms with respective to definitions,
					classification, excipients, preparations and applications.
					4: Understand pharmaceutical Monophasic and biphasic liquid dosage forms and
					incompatibilities.
			<i>N</i>		5: Prepare solid and semisolid dosage forms.
Bpharr	n i	BP104T	Pharmaceutical	2017-18	Upon the completion of the course student shall be able to:
			Inorganic		1. Apply the knowledge of sources of impurities and different methods to identify
			Chemistry		them in inorganic pharmaceuticals.
			-Theory		2 Write and explain about methods of preparation of inorganic pharmaceuticals.
					3. Write and explain about methods for identification and purity testing of
÷.			- A		inorganic pharmaceuticals
					4. Discuss the role of inorganic pharmaceuticals in diagnosis of different
					diseases.
					5. Write about uses of inorganic pharmaceuticals treatment of different aliments.
					6. Explain the pharmaceutical uses of radiopharmaceuticals in diagnosis and
Bpharm		BP105T	Communication	2017-18	Upon completion of the course the student shall be able to
			skills – Theory *		1. Understand the behavioral needs for a Pharmacist to function effectively in the
				8.7	areas of pharmaceutical operation
					2. Communicate effectively (Verbal and Non Verbal)
	C	2			3. Effectivelymanage the team as a team player
					4. Develop interview skills
	_				5. Develop Leadership qualities and essentials
Bpharm		BP106RB		2017-18	Upon completion of the course, the student shall be able to
		Т	Biology/		1. know the classification and salient features of five kingdoms of life
			macy *		2. understand the basic components of anatomy & physiology of plant
			A Contraction Langung	E	3. know understand the basic components of anatomy & physiology animal with
			Butter Martin		special reference to human
			en i	S	PRINCIPAL
			103 m	//	KAMLA NEHRU COLLEGE OF PHARMACY
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Bpharm		BP106RM		2017-18	Upon completion of the course the student shall be able to:-
		Т	Mathematics –		1. Know the theory and their application in Pharmacy
			Theory*		2. Solve the different types of problems by applying theory
					3. Appreciate the important application of mathematics in Pharmacy
Bpharm	Seme	BP201T	Human Anatomy	2017-18	Upon completion of this course the student should be able to:
	ster II		and Physiology II		1. Explain the anatomy and physiology and parameters related to digestive
			– Theory		system and related disorders.
					2.Explain the anatomy and physiology and parameters related to nervous system and ANS.
					3.Explain the anatomy and physiology and parameters related to Urinary system.
					4.Explain the morphology of special senses.
	ŝ.				5.Explain the anatomy and physiology and parameters related to Integumentary
Bpharm		BP202T	Pharmaceutical	2017-18	Upon completion of the course the student shall be able to
	1		Organic		1. Explain Hybridization and physical properties of organic compound
			Chemistry I –		2. Identify the elemental proportion of organic compound
			Theory		3. Write the structure, name and the type of isomerism of the organic compound
			8		4. Understand the Stereochemistry of Organic compound
					5.Know the types of Organic Reactions
					6. Learn factor affecting Organic reactions
Bpharm		BP203T	Biochemistry –	2017-18	Upon completion of course student shell able to
			Theory		1. Explain the various biomolecules along with classification
					2. Describe the metabolism of biomolecules, energy production and utilization
					during the biochemical reactions.
×.					3. Describe the importance and role of cyclic pathway and also the energy
1	é.			0	generation and utilization phase.
		÷			4. Describe the genetic organization of mammalian genome and functions of
					DNA in the synthesis of RNAs and proteins.
					5. Biological oxidation, various biocatalysts, electron transport chain the
					biological significances of ATP and cyclic AMP.
					6. Explain the catalytic role of enzymes, importance of enzyme inhibitors in
	Nehr		2		design of new drug, therapeutic and diagnostic application of enzymes.
Bpharm /	3 . 8	BP204T	Pathophysiology -	2017-18	Upon completion of the subject student shall be able to –
. (A Canada	100	Theory		1 Describe the etiology and nathogenesis of the selected dispense PAL
- (A A	2			2. Name the signs and symptoms of the diseases and NEHRU COLLEGE OF PHAR
	130	184	· · · · · · · · · · · · · · · · · · ·		3. Mention the complications of the diseases.

					 improvement. 5. Acquire skills to help the concerned individuals in identifying and solving environmental problems. 6. Strive to attain harmony with Nature.
Bpharm	Seme ster III	BP301T	Pharmaceutical Organic Chemistry II – Theory	2017-18	 Upon completion of the course the student shall be able to 1. Explain the preparation of various Organic Compounds 2. Write reactions of various Organic Compounds 3. Understand the various reaction mechanisms 4. Know the role stereochemistry in different reaction mechanisms
					5. Propose the orientation of various reaction mechanisms6.Identify the different classes of Organic Compounds
Bpharm		BP302T	Physical Pharmaceutics I – Theory	2017-18	Upon the completion of the course student shall be able to 1.Describe the importance of particle size analysis and their application in pharmaceutical science 2.Demonstrate the importance and significance of surface and interfacial tens in stabilization of dosage form
					 3.Explain surfactants and its significance 4.Apply the knowledge of theoretical and thermodynamic consideration in formulations

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Bpharm		BP303T	Pharmaceutical	2017-18	Upon completion of the subject student shall be able to;
			Microbiology –		1. Understand methods of identification, cultivation and preservation of
			Theory		various microorganisms
					2. To understand the importance and implementation of sterlization in
	ч. — — — — — — — — — — — — — — — — — — —				pharmaceutical processing and industry
					3. Learn sterility testing of pharmaceutical products.
	-				4. Carried out microbiological standardization of Pharmaceuticals.
					5. Understand the cell culture technology and its applications in pharmaceutical
					industries.
Bpharm		BP304T	Pharmaceutical	2017-18	Upon completion of the course student shall be able:
	4 16		Engineering -		1. To know various unit operations used in Pharmaceutical industries.
			Theory		2. To understand the material handling techniques.
-					3. To perform various processes involved in pharmaceutical manufacturing
			11		process.
					4. To carry out various test to prevent environmental pollution.
					5. To appreciate and comprehend significance of plant lay out design for
÷					optimum
					use of resources.
					6. To appreciate the various preventive methods used for corrosion control in
					Pharmaceutical industries.
Bpharm	Seme	BP401T	Pharmaceutical	2017-18	At the end of the course, the student shall be able to
	ster		Organic		1. Write the structure, name and the type of isomerism of the organic compound
	IV		Chemistry III-		2. Explain the Stereochemistry of Organic Compounds
			Theory		reactions
i i					3. Write the reaction, mechanism of reaction and application of name reactions
					4. Understand the various classes of heterocyclic compounds
				*1	5. Account for synthesis and reactions of various heterocyclic compounds
					6. Apprehend the medicinal uses of Heterocyclic compounds
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Bpharm	BP402T	Medicinal Chemistry I – Theory	2017-18	Upon completion of the course the student shall be able 1.to introduce and discuss history and development of medicinal chemistry 2. to classify, draw structures and outline the synthetic route of important drugs acting on autonomic nervous system, central nervous system, narcotic and non
				 narcotic drugs 3.to write chemistry,structure activity relationships, mechanism of action and therapeutic value of drugs belonging to class autonomic nervous system,central nervous system, narcotic and non narcotic drugs. 4. to narrate the importance of physicochemical properties and metabolism of drugs.
Bpharm	BP403T	Physical Pharmaceutics II – Theory	2017-18	Upon the completion of the course student shall be able to 1. Understand the characterization, formulation and development of colloidal and coarse dispersion and enumerate properties of colloids and their applications in pharmaceutical sciences.
-				 2.Describe various rheological properties of pharmaceutical dispersed systems. 3. Understand the particle size, size distribution distribution and importance of particle size analysis and their applications in pharmaceutical sciences.
8		,		4. Enumerate principles of chemical kinetics and to use them for stability testing of pharmaceutical formulations.
Bpharm	BP404T	Pharmacology I – Theory	2017-18	Upon completion of this course the student should be able to 1. Understand the pharmacological actions of different categories of drugs 2. Enumerate different routes of drug administration in human beings and
-1				animals.
1				3.Describe various pharmacokinetics parameters related to the fate of drug after administration.
				 4. Explain the mechanism of drug action at organ system/sub cellular/ macromolecular levels and biochemical aspects of drug action. 5. Apply the basic pharmacological knowledge in the prevention and treatment of
Bpharm	BP405T	Pharmacognosy and	2017-18	Upon completion of the course, the student shall be able 1. to know the techniques in the cultivation and production of crude drugs
	ana Nehru C	Phytochemistry I– Theory		 to know the crude drugs, their uses and chemical nature know the evaluation techniques for the herbal drugs to carry out the microscopic and morphological evaluation of crude drugs
(oliege the history of the history o		1	PRINCIPAL KAMLA NEHRU COLLEGE OF PHARMACY BUTIBORI, NAGPUR-441108

	ant		.	1	
B.Pharm	 Cold Lance Control 	BP501T	Medicinal	2017-18	Upon the completion of the course student will be able to:
	ESTE		Chemistry II		1. to classify, draw structures and outline the synthetic route of important drug
	R-V				structure activity relationships, mechanism of action and therapeutic value of
					drugs acting on anti-histaminics.
					2. to classify, draw structures and outline the synthetic route of important drug
					structure activity relationships, mechanism of action and therapeutic value of
					drugs acting on anti-neoplastic agents.
					3. to classify, draw structures and outline the synthetic route of important drug
					structure activity relationships, mechanism of action and therapeutic value of
					drugs acting on cardio -vascular agents.
					4. to classify, draw structures and outline the synthetic route of important drug
U.	÷.				structure activity relationships, mechanism of action and therapeutic value of
	¥.				drugs acting on endocrine system
					5. to classify, draw structures and outline the synthetic route of important drug
					structure activity relationships, mechanism of action and therapeutic value of
					drugs acting on local anesthetics and antidiabetic agents
B.Pharm		BP. 502T	Industrial	2017-18	Upon the completion of the course students will be able to:
			Pharmacy I		1.Know the various Preformulation studies for pharmaceutical dosage forms
					development
					2.Understand the formulation and characterization of tablets and liquid orals.
					3.Understand and apply the formulation methods of capsules and pellets
					4.Formulate and evaluate parenterals and ophthalmic dosage forms
					5.Understand the concepts in formulation of cosmetics and aerosols and
	5			· ·	evaluate packaging materials
B.Pharm		BP 503.T	Pharmacology-III	2017-18	Upon the completion of the course student will be able to:
					1. Understand the mechanism of drug action and its relevance in the treatment of
					different diseases.
					2. Apply the pharmacological knowledge of drugs acting on cardiovascular
					system.
					3. Describe various drugs acting on urinary system.
		K			4. Explain the mechanism of autacoids' and related drugs.
	001	anz			5. Elaborate the role of drugs acting on endocrine system.
	I Com V				
	Inders 'u	ALL STATE			6. Observe the effect of drugs on animals by using various types of bioassav
ohar	(Isreal) ha	TO BALL			6. Observe the effect of drugs on animals by using various types of bioassay methods. KAMLA NEKRU COLLEGE OF PHARMACY

B.Pharm		BP504T	Pharmacognosy II	2017-18	Upon the completion of the course student shall be able to:
					Explain phytochemical aspects and biogenesis of various secondary metabolites
					2 To know the modern extraction techniques, characterization and identification
					of the
					herbal drugs and phytoconstituents
					3. To understand the herbal drug interactions
					4 Elucidate the structure of phytoconstituents
					5 Analyse herbal extracts for the presence of phytoconstituents
					6 Discuss recent trends and advances in the field of Phytochemistry
B.Pharm		BP505T	Pharmaceutical	2017-18	Upon the completion of the course student shall be able to: 1
	10. 10.		Jurisprudence		Understand importance of Pharmaceutical legislations and their implications in
					the development of pharmaceutical profession.
					2. Know various Indian pharmaceutical Acts and Laws.
					3. To understand objectives, schedules, definitions and offences and penalties
					there with.
			8		4. Explain the role of regulatory authorities and agencies governing the
					manufacture and sale of pharmaceuticals
					5. Know the code of ethics during the pharmaceutical practice.
B.Pharm	SEM	BP601T	Medicinal	2017-18	Upon the completion of the course student shall be able to: 1
	ESTE		Chemistry- III		To recall the classification and nomenclature of drugs of natural and synthetic
	R-VI				origin.
					2. To explain the concept of prodrugs and their importance.
					3. To identify the mechanism of action and therapeutic uses of drugs.
		÷			4. To understand the relationship between structure of compound and its
- 6					biological activity.
	4				5. To draw the synthetic route for selected category of drugs as prescribed in the
				le.	syllabus.
					6. To discuss the approaches in drug design including QSAR, pharmacophore
		enarma			modeling, docking and combinatorial chemistry.
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В.	.Pharm	BP602 T	PHARMACOLG	2017-18	Upon the completion of the course student will be able to:
			Y-III		1. Understand the mechanism of drug action and its relevance in the treatment of
					Respiratory system and GIT.
					2. Apply the knowledge of classification, mechanism of action, therapeutic
× - 1					effects, clinical uses, side effects and contraindications of Chemotherapeutics
					agents.
					3. Describe the various pharmacological aspects of drugs acting on Immune
					system.
					4. Comprehend the principles of toxicology and treatment of various poisonings
					and appreciate correlation of pharmacology with related medical sciences.
					5. Explain and elaborate the aspects of Chronopharmacology
В.	.Pharm	BP 603 T.	HERBAL DRUG	2017-18	Upon the completion of the course student will be able to:
8			TECHNOLOGY		1. Understand raw material as source of herbal drugs from cultivation to herbal
					drug product
	· · · · ·				2. Know the WHO and ICH guidelines for evaluation of herbal drugs
					3. Know the herbal cosmetics, natural sweeteners, nutraceuticals
					4. Appreciate patenting of herbal drugs, GMP.
В.	.Pharm	Bp. 604 T	Biopharmaceutics	2017-18	Upon the completion of the course student shall be able to:
			and		1.Understand the basic concepts in biopharmaceutics and pharmacokinetics and
			Pharmacokinetics		their significance and describe the kinetics of drug absorption, distribution,
					2. Apply the principle of pharmacokinetic process like metabolism, excretion,
					elimination. And Understand the concepts of bioavailability and bioequivalence
					of drug products and their significances
	t d				3.Understand various pharmacokinetic parameters, their significance &
	-4			·	applications in compartment modelling
				50	4.Apply the knowledge of pharmacokinetic principles in multicompartment models
				_	5.Describe the non linear pharmacokintics
		L	ACH * 40		3.Desende the non-mical pharmacokinties
			andbey working		PRINCIPAL
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B.Pharm		BP605T	Pharmaceutical	2017-18	Upon completion of the subject student shall be able to
		and the second sec	Biotechnology		1. Understand tools and techniques of rDNA technology and also the
			0,		importance of Immobilized enzymes in Pharmaceutical Industries.
					2.Describe the pharmaceutical production of recombinant proteins, insulin,
					growth hormones, interferon and monoclonal antibodies through application of
			1		rDNA technology.
					3.Explain the principle, detail the technique and application of plant and animal
					cell/ tissue culturing.
					4.Genetic engineering and its applications in relation to production of
					pharmaceuticals.
B.Pharm		BP606T	Pharmaceutical	2013	Upon the completion of the course student shall be able to:
	5		quality assurance		1.Understand the cGMP aspects in a pharmaceutical industry
					2.Appreciate the importance of documentation
					3.Prepare the documents in pharmaceutical industry
					4.Understand the scope of quality certifications applicable to pharmaceutical
					industries
					5.Understand the responsibilities of QA & QC departments
					6.Carry out calibration of pH meter and qualification of UV-Visible
					spectrophotometer
B.Pharm	SEM	BP701T	Instrumental	2017-18	Upon the completion of the course student shall be able to:
	ESTE		Methods of		1. Understand the interaction of matter with electromagnetic radiations and its
	R-VII		Analysis		applications in drug analysis
					2. Understand the chromatographic separation and analysis of drugs.
					3. Perform quantitative & qualitative analysis of drugs using various analytical
					instruments



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B.Pharm	B	P702T	Industrial	2017-18	Upon the completion of the course students will be able to:
			Pharmacy II		1.Define the process of pilot plant and scale up of pharmaceutical dosage forms.
					2.Interpret the process of technology transfer from lab scale to commercial batch.
					3.Know different Laws and Acts that regulate pharmaceutical industry.
					4.Understand the approval process and regulatory requirements for drug products.
					5.Acquire the knowledge of quality management systems used in
					pharmaceutical industry to build the quality in dosage forms.
					6.Understand the responsibilities and functions of Central and State Regulatory Authorities in India
3.Pharm	В	P 703T.	PHARMACY	2017-18	Upon completion of course student shall be able to:
			PRACTICE		1. To know various drug distribution methods in a hospital & appreciate the
					pharmacy stores management and inventory control.
					2. To monitor drug therapy of patient through medication chart review and
					clinical review.
*			¢.		3.To obtain medication history interview, counsel the patients and identify drug related problems.
					4. To detect and assess adverse drug reactions.
					5.To know pharmaceutical care services and appreciate the concept of Rational drug therapy.
B.Pharm	В	P704T	Novel Drug	2017-18	Upon completion of the subject student shall be able to
			Delivery System		Understand Terminologies, concepts and rationale related to controlled drug
<i>.</i>				1 B	delivery systems along with the polymers.
Ċ.					2.Understand Microencapsulation and gastroretentive like mucosal as well as
					implantable drug delivery systems.
					3. Understand Transdermal, ocular, nasopulmonary and intrauterine drug
			2		delivery systems.
					4. Targeted drug delivery systems.

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PRINCIPAL KAMLA NEHRU COLLEGE OF PHARMACY BUTIBORI, NAGPUR-441108

Preventive Pharmacy Acquire high consciousness/realization of current issuesrelated to health and pharmaceutical problems within the country and worldwide. 2. Have a critical way of thinking based on current healthcare development. 3. Evaluate alternative ways of solving problems related tohealth and pharmaceutical issues 8.Pharm BP803ET Pharmaceutical 2017-18 Upon completion of the subject student shall be able to 1. Understand the concept of Marketing. 2. To Know various techniques of Marketing. 3. To understand the application of marketing in pharmaceutical industry. 4. To differentiate various Emerging concepts in marketing such as Vertical & Horizontal Marketing, Rural Marketing, Consumerism, Industrial Marketing, and Global Marketing.			BP801T	Biostatistics and	2017-18	Upon completion of the subject student shall be able to
VIIIVIIIExperiment).Summary and the series of the statistics of the statistic of t	1.0-			Research		
3. Deals with descriptive statistics, Graphics, Correlation, Regression, logistic regression Probability theory, Sampling technique, Parametric tests, Non Parametric tests, ANOVA. 4. Know the various statistical techniques to solve statistical problems. 5. Appreciate statistical techniques in solving the problems. 6. Analyzing the statistical data using ExcelPharmBP802TSocial and Preventive Pharmacy2017-18Upon completion of the subject student shall be able to Acquire high consciousness/realization of current issuesrelated to health and pharmaceutical problems within the country and worldwide. 2. Have a critical way of thinking based on current healthcare development. 3. Evaluate alternative ways of solving problems related tohealth and pharmaceutical issuesPharmBP803ETPharmaceutical Marketing2017-18Upon completion of the subject student shall be able to 2. Have a critical way of thinking based on current healthcare development. 3. Evaluate alternative ways of solving problems related tohealth and pharmaceutical issuesPharmBP803ETPharmaceutical Marketing2017-18Upon completion of the subject student shall be able to 2. To Know various techniques of Marketing. 2. To Know various techniques of Marketing. 3. To understand the concept of Marketing. 3. To understand the application of marketing in pharmaceutical industry. 4. To differentiate various Emerging concepts in marketing such as Vertical & Horizontal Marketing, Rural Marketing, Consumerism, Industrial Marketing, and Global MarketingPharmBP. 809 TCosmetic Science2017-18Upon the completion of the course student will be able to: 1.Understand the regulatory concept of cosmetic formulation 2. Know the principles of building				Methodology		
Image: Probability theory, Sampling technique, Parametric tests, Non Parametric tests, ANOVA. 4. Know the various statistical techniques to solve statistical problems. 5. Appreciate statistical techniques in solving the problems. 6. Analyzing the statistical data using ExcelImage: Problem in the problem in the preventive Pharmacy2017-18Upon completion of the subject student shall be able to Acquire high consciousness/realization of current issuesrelated to health and pharmaceutical problems within the country and worldwide. 2. Have a critical way of thinking based on current healthcare development. 3. Evaluate alternative ways of solving problems related tohealth and pharmaceutical susuesImage: Pharmaceutical Marketing2017-18Upon completion of the subject student shall be able to 1. Upon completion of the subject student shall be able to 1. To understand the concept of Marketing. 2. To Know various techniques of Marketing. 3. To understand the application of marketing in pharmaceutical industry. 4. To differentiate various Emerging concepts in marketing such as Vertical & Horizontal Marketing.BP. 809 TCosmetic Science 2017-182017-18Upon the completion of the course student will be able to: 1. Understand the regulatory concept of cosmetic formulation 2. Know the principles of building blocks of different cosmetics formulation 2. Know the principles of building blocks of different cosmetics formulation 3. Describe the role of herbs in cosmetic formulations 4. Understand the evaluation of cosmetic formulation 5. Know the principles of building blocks of different cosmetics formulation 5. Know the principles of building blocks of different cosmetics formulation 5. Know the principles of building blocks of different cosmetics formulation 5. Horizontal the evaluation of cosmetics	T	VIII				Experiment).
BP802T Social and Preventive Pharmacy 2017-18 Upon completion of the subject student shall be able to pharmaceutical problems within the country and worldwide. B.Pharm BP803ET Pharmaccutical Marketing 2017-18 Upon completion of the subject student shall be able to pharmaceutical problems within the country and worldwide. B.Pharm BP803ET Pharmaccutical Marketing 2017-18 Upon completion of the subject student shall be able to pharmaceutical problems within the country and worldwide. B.Pharm BP803ET Pharmaceutical Marketing 2017-18 Upon completion of the subject student shall be able to 1. B.Pharm BP803ET Pharmaceutical Marketing 2017-18 Upon completion of the subject student shall be able to 1. B.Pharm BP803ET Cosmetic Science 2017-18 Upon completion of the subject student shall be able to 1. 1. B.P. 809 T Cosmetic Science 2017-18 Upon the completion of marketing. 3. To understand the application of marketing in pharmaceutical industry. 4. To differentiate various Emerging concepts in marketing such as Vertical & Horizontal Marketing. 3. Decribed to regulatory concept of cosmetic formulation 2. Know the principles of building blocks of different cosmetics formulation 2. Know the principles of building blocks of different cosmetics formulation 3. Decribe the role of herbs in cosmetic formulations 4. Understand the evaluation of cosmetics 5. <td></td> <td></td> <td></td> <td></td> <td></td> <td>3. Deals with descriptive statistics, Graphics, Correlation, Regression, logistic</td>						3. Deals with descriptive statistics, Graphics, Correlation, Regression, logistic
BP802T Social and Preventive Pharmacy 2017-18 Upon completion of the subject student shall be able to Acquire high consciousness/realization of current issuesrelated to health and pharmaceutical problems within the country and worldwide. 1. B.Pharm BP803ET Pharmaceutical Marketing 2017-18 Upon completion of the subject student shall be able to Acquire high consciousness/realization of current issuesrelated to health and pharmaceutical problems within the country and worldwide. B.Pharm BP803ET Pharmaceutical Marketing 2017-18 Upon completion of the subject student shall be able to 1. B.Pharm BP803ET Pharmaceutical Marketing 2017-18 Upon completion of the subject student shall be able to 1. B.Pharm BP803ET Pharmaceutical Marketing 2017-18 Upon completion of the subject student shall be able to 1. 1. B.Pharm BP803ET Pharmaceutical Marketing 2017-18 Upon completion of the subject student shall be able to 1. 1. B.P. 809 T Cosmetic Science 2017-18 Upon the completion of the course student will be able to: 1. Understand the regulatory concept of cosmetic formulation 2. Know the principles of building blocks of different cosmetics formulation 3. Decribe the role of herbs in cosmetic formulation 3. Decribe the role of herbs in cosmetic formulation 3. Understand the evaluation of cosmetics 5.						regression Probability theory, Sampling technique, Parametric tests, Non
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MPharm	Seme	MPH101T	Modern	2017-18	Upon the completion of the course student will be able to:
(MPh)	ster I		PharmaceuticalAn		1.explain the principles of different instrumental methods used in analytical
			alytical		technique.
			Techniques		2.describe the instrumentation and its working used in various advanced
					analytical technique.
					3.enumerate the applications of each analytical technique mentioned in syllabus
					4.Narrate the various immunological assays.
MPharm		MPH102T	Drug Delivery	2017-18	Upon completion of the subject student shall be able to
(MPh)			System		1.Understand the Principles & Fundamentals in development on novel drug
					delivery systems.
					2.Understand the various approaches for development of novel drug delivery
	i.				systems.
					3.Understand the criteria for selection of drugs and polymers for the
					development of delivering system.
					4.Understand the formulation and evaluation of Novel drug delivery systems
MPharm		MPH103T	Modern	2017-18	Upon completion of the course, student shall be able to understand
(MPh)			Pharmaceutics		1. The elements of preformulation studies. The active pharmaceutical
	-				ingredients and generic drug product development
					2.Concept behind optimization and parameters of optimization for the design
	· .				of dosage form
					3.Scope and merits of validation in dosage form development and qualification
					of instruments
				2	4.GMP practices, industrial management, material management and TQM in
-÷				-	pharmaceutical industry
			2		5.Physics of compression and compaction profile during tabletting process
1					6.Diffusion parameters, dissolution parameters, pharmacokinetic parameters,
	1 27				dissolution models and their statistical analysis



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MPharm		MPH104T	Regulatory Affair	2017-18	Upon completion of the course, it is expected that the students will be able to
(MPh)					understand
		9			1. The Concepts of innovator and generic drugs, drug development
					process
					2. The Regulatory guidance's and guidelines for filing and approval
					process
					3. Preparation of Dossiers and their submission to regulatory agencies in
					different countries
					4. Post approval regulatory requirements for actives and drug products
					5. Submission of global documents in CTD/ eCTD formats
					6. Clinical trials requirements for approvals for conducting clinical trials
	i si				7. Pharmacovigilence and process of monitoring in clinical trials.
MPharm	Seme	MPH201T	Molecular	2017-18	Upon completion of the course student shall be able to understand
(MPh)	ster II		Pharmaceutics(Na		1. The various approaches for development of novel drug delivery
			no Tech and		systems.
			Targeted DDS)		2. The criteria for selection of drugs and polymers for the development of
					NTDS
					3. The formulation and evaluation of novel drug delivery systems.
MPharm		MPH202T	Advanced	2017-18	Upon completion of the subject student shall be able to
(MPh)			Biopharmaceutics		1.Understand the basic concepts in biopharmaceutics and pharmacokinetics.
			&		2.Understand the use raw data and derive the pharmacokinetic models and
			Pharmacokinetics		parameters the best describe the process of drug absorption, distribution,
					metabolism and elimination.
					3.Understand the critical evaluation of biopharmaceutic studies involving drug
. '					product equivalency.
· · · · · · · · · · · · · · · · · · ·					4.Understand the design and evaluation of dosage regimens of the drugs using
	- 21				pharmacokinetic and biopharmaceutic parameters and potential clinical
					pharmacokinetic problems and application of basics of pharmacokinetic.



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MPharm		MPH203T	Computer Aided	2017-18	Upon completion of this course it is expected that students will be able to	
(MPh)			Drug Delivery		understand,	
			System		1. History of Computers in Pharmaceutical Research and Development2	2.
					Computational Modeling of Drug Disposition	
					3. Computers in Preclinical Development	
					4. Optimization Techniques in Pharmaceutical Formulation	
					5. Computers in Market Analysis	
				161	6. Computers in Clinical Development	
					7. Artificial Intelligence (AI) and Robotics	
					8. Computational fluid dynamics(CFD)	
MPharm		MPH204T	Cosmetic and	2017-18	Upon completion of the course, the students shall be able to understand	
(MPh)	1		Cosmeceuticals		1. Key ingredients used in cosmetics and cosmeceuticals.	_
. ,					2. Key building blocks for various formulations.	
					3. Current technologies in the market	
					4. Various key ingredients and basic science to develop cosmetics and	
					cosmeceuticals	
			а. С		5. Scientific knowledge to develop cosmetics and cosmeceuticals with	
					desired Safety, stability, and efficacy.	
MPharm	Seme	MPC101T	Modern	2017-18	After completion of course student is able to know	
(PC)	ster I		Pharmaceutical		1. Explain about different instrumental techniques	
			Analytical		2. Apply the knowledge in identification of unknown compounds from the	
			Techniques		experimental data	
			÷		3. Explain methods for analysis of various drugs in single and combination	
					dosage forms	
					4. Explain in detail about separation Techniques	
ć					5. Discuss about gel electrophoresis techniques	
		*			6. Explain about thermal techniques in detail	
MPharm		MPC1012	Advanced	2017-18	Upon completion of course, the student shall be to understand	
(PC)		Т	Organic		1. The principles and applications of reterosynthesis	
< ,			Chemistry -I		2. The mechanism & applications of various named reactions	
					3. The concept of disconnection to develop synthetic routes for small target	
		10			molecule.	
×		1	Hamia Nes		4. The various catalysts used in organic reactions	1
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MPharm		MPC103T	Advanced	2017-18	At completion of this course it is expected that students will be able to
(PC)			Medicinal		understand
			chemistry		1. To learn the different stages of drug discovery & role of medicinal chemistry
					in drug research.
					2. To learn different techniques for drug discovery.
					3. To understand various strategies to design and develop a new drug like
					molecules for biological targets and drug receptor concept.
					4. To explain prodrug development and applications.
					5. To know the structural activity relationship of the important class of drugs as
					prescribed in the syllabus. 6.
					To explain the types of Enzyme inhibition, peptidomimetics and its application in
	14				medicine.
MPharm	1	MPC104T	Chemistry of	2017-18	Upon completion of course, the student shall be to understand 1.
(PC)			Natural Products		Different types of natural compounds and their chemistry and
					medicinal importance
					2. The importance of natural compounds as lead molecules for new drug
					discovery
					3. The concept of rDNA technology tool for new drug discovery
					4. General methods of structural elucidation of compounds of natural
					origin
					5. Isolation, purification and characterization of simple chemical
					constituents from natural source
MPharm	Seme	MPC201T	Advanced	2017-18	At completion of this course it is expected that students will be able to
(PC)	ster II		Spectral Analysis	5	understand-
,					1. Interpretation of the NMR, Mass and IR spectra of various organic
1					compounds
	_22			· ·	2. Theoretical and practical skills of the hyphenated instruments
					3. Identification of organic compounds
MPharm		MPC202T	Advanced	2017-18	Upon completion of course, the student shall able to understand
(PC)			Organic		1. The principles and applications of Green chemistry
			Chemistry -II		2. The concept of peptide chemistry.
		Ka	mLa N		3. The various catalysts used in organic reactions
		X	and a start		4. The concept of stereochemistry and asymmetric synthesis.
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MPharm	MPC203T	Computer Aided	2017-18	At completion of this course it is expected that students will be able to	
(PC)		Drug Design		understand	
				1. Role of CADD in drug discovery	
				2. Different CADD techniques and their applications	
				3. Various strategies to design and develop new drug like molecules.	
				4. Working with molecular modeling softwares to design new drug	
				molecules	
				5. The in silico virtual screening protocols	
MPharm	MPC204T	Pharmaceutical	2017-18	Upon completion of course, the student shall able to understand	1.
(PC)		Process Chemistry		The strategies of scale up process of apis and intermediates	
				2. The various unit operations and various reactions in process chemistry	

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