



ಕರ್ನಾಟಕ ರಾಜ್ಯ ಅಕ್ಕಮಹಾದೇವಿ ಮಹಿಳಾ ವಿಶ್ವವಿದ್ಯಾಲಯ, ವಿಜಯಪುರ.

(ಹಿಂದಿನ ಪದನಾಮ: ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಹಿಳಾ ವಿಶ್ವವಿದ್ಯಾಲಯ, ವಿಜಯಪುರ.)

**PHARMACEUTICAL CHEMISTRY SUBJECT C.O AND P.O**

Semester	Code	Paper Title	Course Outcome
<b>First Semester</b>	PCHC 1.1	Inorganic chemistry-I	CO -1 The students learnt the skills in Inorganic chemistry CO -2 The students shall have knowledge on atomic structure periodic properties and chemical bonding CO -3 They understand the chemical and physical properties of elements in the periodic table CO -4 They understand the theories in Inorganic chemistry
	PCHC 1.2	Organic chemistry-I	CO -1 The students shall have basics and fundamental theories of organic chemistry CO -2 They understand the nature of bonding and aromaticity in organic chemistry CO -3 They acquired knowlwdge of substitution reaction occurring in organic molecule CO -4 They understand electron delocalisation and its effect on stability and reactivity
	PCHC 1.3	Physical chemistry-I	CO- 1 The students shall have ideas on physical phenomeanon on chemical thermodynamics and chemical kinetics CO -2 The students shall get introduced to basics and applicatuion of chemical thermodynamics CO -3 They acquired the knowledge of catalysis and electrochemistry in solution state CO -4 They understood the basics of corrosion , corrosion control and its application
	PCHC 1.4	Analytical Chemistry-I	CO -1 They understood the concepts of classical metods of analysis like titrametry , gravimetry CO -2 The students shall have knowlwdge of purity and separation techniques CO -3 They acquired basics of electroanalytical techniques
<b>Second Semester</b>	PCHC 2.1	Inorganic chemistry-II	CO -1 The students learnt the skills in Inorganic chemistry CO -2 The students shall have knowledge on catalysis and synthesis of orgnomrtalic compounds CO -3 They understand symmetry of elements and group theory CO -4 They understand the propertis and structure of non transition elements
	PCHC 2.2	Organic chemistry-II	CO -1 The students shall have idea on rearrangement and synthesis of organic reagents CO -2 They understood the chemical reaction and sysnthesis of heterocyclic compounds CO -3 They acquired knowlwdge of rearrengmt and reactions of pericyclic compounds CO -4 They understood principle and synthesis of combinatorial constituent
	PCHC 2.3	Physical chemistry-II	CO- 1 The students shall have ideas on solid state chemistry and nano materials CO -2 The students shall get introduced to basics and applicatuions and commercial importance of polymers CO -3 They acquired the knowledge of thermal and photochemical reactions CO -4 They understood the principle of general and specific acid bace catalysis reactions
	PCHC 2.4	Analytical Chemistry-II	CO -1 They understood the concept of statistical treatment of samples using analytical data CO -2 The students shall have knowlwdge general principles , properties of precipitates and acid base titration CO -3 They acquired basics of precipitation and complexometric titration using edta CO -4 They get knowledge of instrumentation and calibration of flame photometry

<b>Third Semester</b>	PCHC 3.1	Dosage forms and drug regulation –I	CO -1 The students learnt about different types dosage forms and their properties CO -2 The students shall have knowledge on fundamental drug delivery systems CO -3 They understand the process of development of good manufacturing practice of drugs CO -4 They acquired the knowledge on stability and preformulation studied of medicinal products
	PCHC 3.2	Medicinal chemistry –I	CO -1 The students shall have idea on basics principle of medicinal chemistry CO -2 They understood the structural activity relationship and quantitative properties of drug CO -3 They acquired knowlwdge of synthesis of sulphonamides and anti ameobic agents CO -4 They understood MOA of SAR of quinoline antimalerials and anticonvulsant
	PCSC- 3.3	Spectroscopy	CO- 1 The students shall have ideas on Characterization and instrumentation of Electromagenetic REDIATIONS. CO -2 They acquired the knowledge of Fundamental aspects and applications of IR Spectroscopy CO -3 They understood the principle and instrumentation of NMR Spectroscopy. CO-4 They Understood the principle, instrumentation and Application of Mass spectroscopy
	PCSCT-3.4	Natural Products Chemistry	CO- 1 The students shall have ideas on Synthesis andStructural Eludation of Alkloids CO -2 The students shall have ideas on Synthesis and Structural Eludation of Vitamines and Essential Oils CO -3 The students shall have ideas on Synthesis and Structural Eludation of Glycocides and Terpenoids CO-4 They Understood the Boisynthesis of Steroides and Prostaglandines
<b>Fouthh Semester</b>	PCHC-4.1	Basics Pharmacology and Pharmaceutics	CO- 1 The students shall have ideas on General Pharmacology CO -2 They acquired the knowledge of Pharmcokinetics CO -3 They understood the principle and Screening Methods of Drugs CO-4 They Understood the Pharmaceutical Technology.
	PCHC-4.2	Medicinal Chemistry	CO- 1 The students shall have ideas on Synthesis and MOA of Central Nervous System Depressant Drugs. CO -2 They acquired the knowledge of MOA Cardivasular Drugs CO -3 They understood the MOA and Synthesis of Anlgesics, antihistaminic and Antiinflammatory agents. CO-4 They Understood the Classification and MOA, Synthesis of Antitubercular and Oral Cofraceptive agents.
	PCSC-4.3	Bioorganic Chemistry	CO- 1 The students shall have ideas on Chemical Properties of Carbohydrates CO -2 They acquired the knowledge of Synthesis and Chemical Reaction of amino acides Peptides CO -3 They understood the Purification and Synthesis of Lipids. CO-4 They Understood the Classification and Enzyme Catalysis.
	PCHC-4.2	Project Report	PO-Project Work Involving Multistage Synthesis or Isolation of Active Molecules Present in Medicil Plants or Evaluation of Biological activities.