

**SEM III Credit Based and Grading System 2012 Syllabus**

Code	Name of Subject	Course outcome
BPH T 3.1	Organic Chemistry – I	1. The learner should be able to write the structures of different compounds of interest 2. The learner should be able to gain knowledge on general preparation, nomenclature, physical properties, chemical reactivity of the aliphatic and aromatic compounds 3. The learner should be able to write the mechanism and application involved in the synthesis of compounds 4. The learner should be able to understand the stereochemistry of carbon compounds
BPH T 3.2	Biochemistry II	1. The learner should be able to acquired the knowledge of metabolism of different compound such as carbohydrates, lipid, proteins etc. 2. The learner should be able to study in details DNA replication 3. The learner should be able to study different biosynthetic pathway such as fatty acids , phospholipids, purine etc. 4. The learner should be able to acquired knowledge of DNA transcription and RNA translation.
BPH T 3.3	Dispensing Pharmacy	1. The learner should be able to gain the knowledge of prescription and its parts and its importance. 2. The learner should be able to gain the knowledge of different pharmaceutical formulation suspension, emulsion, ointment etc. 3. The learner should be able to performed calculations based on expressions of concentration and dilution based on isotonicity. 4. The learner should be able to understand physical and chemical Incompatibilities
BPH T 3.4	Pharmaceutical Engineering	1. The learner should be able to understand the concept of crystallization 2. The learner should be able to understand the concept of interfacial mass transfer 3. The learner should be able to acquired knowledge of different types of evaporator , conveyor crystallizer etc 4. The learner should be able to apply safety regulation against industrial hazards
BPH T 3.5	Anatomy, Physiology and Pathophysiology- III	1. The learner should be able to understand the formation of body fluids and distribution fluid in different compartments. 2. The learner should be able to acquired knowledge of various systems of body such as Urinary, cardiovascular, reproductive etc. 3. The learner should be able to acquired knowledge of Pathophysiology of various diseases, renal failure , hepatitis, angina pectoris etc 4. The learner should be able to understand the formation of body fluids and distribution fluid in different compartments
BPH T 3. 6	Mathematics	1. The learner should be able to acquired the knowledge of Derivatives 2. The learner should be able to understand integration by parts 3. The learner should be able to acquired knowledge differential equations 4. The learner should be able to study types of matrices, inverse of matrix, rank of a matrix etc.
BPH P 3.7	Organic Chemistry Lab. – I	1. The learner should be able to understands importance of laboratory safety measures 2. The learner should be able to study mono-functional and bifunctional groups 3. The learner should be able to understand aspects of physical constant determination, and detection of functional groups
BPH P 3.8	Biochemistry II Lab	1. The learner should be able to study qualitative tests for carbohydrates, proteins etc 2. The learner should be able to understands importance Chromatographic separation of amino acids. 3. The learner should be able to Estimate enzyme activity 4. The learner should be able to performed colorimetric estimation for protein, RNA,DNA. 5. The learner should be able to study saponification, acid, iodine value of oil / fat sample.
BPH P 3.9	Dispensing Lab.	1. The learner should be able to study formulation of different formulation such as solution, suspension ,emulsion etc 2. The learner should be able to study formulation of suppositories, pastilles, powder etc 3. The learner should be able to Estimate incompatibility test.