

# SYLLABUS FOR BHU .....

- 1) Physics-  
Measurement, Motion, Circular Motion, Wave Motion, Optics, Kinetic Theory of Gases, Physics of the Atom, Thermodynamics, Work and heat, First law of Thermodynamics, Electricity, Electro-Magnetic Induction, Nuclear Physics,  
Electronic Devices.
  
- 2) Chemistry-  
Part I: General & Inorganic Chemistry-Structure of Atom, Molecule and Chemical Bond, Periodic Properties of Elements, Chemistry of Elements and Compounds.  
Part II: Organic Chemistry  
Part III: Physical Chemistry-State of Matter, Energetic, Chemical Equilibrium.
  
- 3) ) Life science/Biology-  
Zoology, Histology, Anatomy and Physiology, Reproductive System, Developmental Biology, Diversity of Animal Life, Genetics and Evolution (Fundamentals only), Symbiosis  
Botany-Anatomy and Physiology of Plants, Plant growth and development, Internal and external regulators of growth and development in plants, Internal structure of stem and secondary growth, Xylem and Phloem-their cell elements and functions Internal structure of dicot and monocot leaves, photosynthesis-history, importance, factors and mechanism, stomatal mechanism. Transpiration and respiration Internal structure of dicot and monocot roots. Absorption and cell water relations, transport of water and minerals, tropic and turgor movements. Botany and Human Welfare.