



College of Pharmaceutical
Sciences and Drug Manufacturing
A college accredited by "NAQAAE"



PC 904

COURSE DESCRIPTION:-

The course provides students with early drug design, sources of leads, summary of the different techniques used to optimize drugs, bioisosterism, 2D-QSAR, Hansch equation, Craig plot and Topliss approach, application of Hansch equation, relation between physicochemical parameters and biological activity of drugs, idea about drug receptor interaction, types of bonding between drug and receptor and the effect of steric factors on biological activity, drug development and conformational restriction as an optimization techniques. 3D-QSAR [comparative molecular field analysis] and molecular modelling, prodrugs and drug latentiation. In addition it covers metabolic changes of xenobiotics: phase i [functionalization], phase ii [conjugation] (glucuronic acid conjugation, sulphate conjugation, amino acid conjugation, glutathione conjugation, acetylation conjugation, methylation conjugation, net result of metabolism).