



Medicinal Chemistry-I	
Title: Medicinal Chemistry-I	
Subject code: 321 PHC	
Semester: Fifth Semester (Third Year).	
Duration: 2 + 0 (2 contact hours) per week.	
Aims: To provide an introduction on drug actions and the chemistry and pharmacological activity of drugs acting on autonomic nervous system and cardiovascular system.	
Objectives: Upon successful completion of this course the student should understand the concept of medicinal chemistry and able to know the chemistry and pharmacological activity of drugs acting on autonomic nervous system and cardiovascular system.	
Contents: Lectures: Introduction to medicinal chemistry, drug action on enzymes, drug action on receptors, quantitative structure-activity relationship, drugs acting on autonomic nervous system, cardiovascular system (cardiotonics, antiarrhythmics, vasodilators, antihypertensives, antihyperlipidemics, drugs affecting blood and diuretics) and drug design for related drugs.	
Minimum course requirements: 30 (2 x 15) Unit lectures (30 contact hours) per level.	
Evaluation methods:	
- Quizzes	15%
- Mid term examination (Written)	25%



- Final examination (written)	60%
Text Books (latest editions):	
1- An Introduction to Medical Chemistry, Graham L. Patrick. 2- Principles of Medicinal Chemistry, W.O. Foye, T. L. Lemke, David A Williams.	
Recommended books (latest editions):	
1- Medicinal Chemistry: An Introduction T.B., G. Thomas, Wiley, John Wiley. 2- A Text book for Medical Chemistry, P. Parimoo. 3- Essentials for Pharmaceutical Chemistry, Donald Cairns, Principal Pharmacist, Kent and Canterbury. 4- Medicinal Chemistry, C.R. Anellin. 5- Pharmaceutical Chemistry, M.B.Christine. 6- Wilson and Gisvold's Textbook of Organic Medicinal and Pharmaceutical Chemistry.	