

Course No: PGCHM17G308

Title: Basic Medicinal Chemistry -III (02 Credits)

Max. Marks: 50

Duration: 32 Contact hours

Continuous Internal Assessment: 10 Marks

End Semester: 40 Marks

Unit 1. Central Nervous System Agents 16 hours

CNS stimulants; Introduction, Classification, Xanthine derivatives, Analeptics and miscellaneous, CNS peptides

CNS depressants; Introduction, sedatives and hypnotics, Classification, Barbiturates, mode and mechanism of action, Benzodiazepines

Unit 2: Antipyretic Analgesics 16 hours

Introduction, Classification; Aniline and p-Aminophenol Analogues; Salicylic Acid Analogues
Quinoline Derivatives, Pyrazolones and Pyrazolodiones, N-Arylanthranilic Acids, Mechanism of Action, Mechanism of Action of Selected Antipyretic-Analgesics

Text Books:

1. An Introduction to Medicinal Chemistry; Graham L. Patrick (Oxford University Press-2009) 4th Edition.
2. Medicinal Chemistry, Ashutosh Kar. (New Age International-1993) 4th Edition.
3. Medicinal Chemistry- An Introduction, Gareth Thomas (Wiley-2000). 3rd Edition.
4. Foye's Principles of Medicinal Chemistry David A. Williams 2002. Lippincott Williams and Williams. 5th Ed.
5. Medicinal Chemistry- V. K. Ahluwalia 2009, Ane Books Pvt.Ltd
6. The Organic Chemistry of Drug Design and Action Richard B Silverman 2nd Ed 2004,
7. Analogue-based Drug Discovery, J. Fischer & C. R. Ganellin (Wiley-VCH 2006) 1st Edition