Pharmaceutical Biochemistry

A Value-Added Course

Course Duration : 30 hours **Year: 2019-20**

Offering Department: PG Biochemistry

Course Outcome

Specify in detail the ADME mechanism
Deliberate on the drug receptor mechanism
Learn anti-cancer drugs

Contact: Head of the Department, Room No. 356. 3rd Floor, JSS College, Mysuru 570025

M.Sc. Degree Programme in Biochemistry		
VALUE ADDED COURSE - III		
Programme Code	**Title of the Course**	**Total Hours**
BIC	**PHARMACEUTICAL BIOCHEMISTRY**	**30**
Course Outcome(s): **CO1** Identify the details of ADME mechanism of drugs **CO2** Learn in details with application, if applicable, Drug receptor interactions **CO3** Deliberate in details with application, if applicable, Mode of action of anti cancer drugs		**No. of Lectures**
Unit I:		**10**
1.1	**Drugs**	
1.1.1 1.1.2	Drugs: History of Drugs Classification of drugs, routes of drug administration, absorption and distribution of drugs. Factors influencing drug absorption and elimination of drugs.	
Unit II:		**10**
2.1	**Drug Receptor and Metabolism**	
2.1.1 2.1.2	Drug-Receptor interactions involvements of binding forces in drug receptor interaction, drug action not mediated by receptors. Drug metabolism: Mechanism of phase I and II enzyme reactions, biochemical importance of xenobiotic metabolism.	
Unit III:		**10**
3.1	**Anticancer Drugs**	
3.1.1 3.1.2	Cancer: Cancer and principles of cancer chemotherapy, mode of action of anti cancer drugs. Antimetabolites, antibiotics, alkylating agents and other agents,	

References

[1] The Pharmacology volume I and II –Goodman and Gillman
[2] Basic Pharmacology –Foxter Cox
[3] Oxford text book of Clinical Pharmacology and Drug Theraphy ,D.G Grahme Smith and J.K.Aronson
[4] Pharmacology and Pharmatherapeutics – R.S.Satoskar,S.D.Bhandhakarand
[5] Essentials of Pharmacotherapeutics ,Barav.F.S.K
[6] Lippincotts illustrated review Pharmacology, Mary.J.Mycek,Richards ,Pamela