



LESSON PLAN

Faculty Name: Palika Sehgal

Subject Name: Computer Applications in
Pharmacy

Class: B. Pharmacy – 2nd Sem

Subject Code: BP205T

Scope of the Subject: Computer Applications in Pharmacy is the subject deals with the introduction database. Data Base Management Systems, Computer Application in clinical studies and use of databases.

Course outcome: Upon completion of this course the student should be able to:

- To know the various types of Applications in Pharmacy
- To know about various types of data base
- To know the various applications of database in Pharmacy

Number of Lectures: 30

Each lecture: 01 hour

Lecture No.	Particular	Remark/Date
Module 1: Number System		
1.	Binary number system, Decimal number system, Octal number system, Hexadecimal number systems, conversion decimal to binary, binary to decimal, octal to binary etc,	
2.	Binary addition, binary subtraction – One's complement ,Two's complement method	
3.	Binary multiplication, binary division	
Concept of Information system and software		
4.	Information gathering, requirement and feasibility analysis	
5.	data flow diagrams,	
6.	Process specifications	
7.	Input/output design	
8.	Process life cycle	
9.	Planning and managing the project	
Module 2: Web technologies		
10.	Introduction to HTML,XM	
11.	CSS and Programming languages	
12.	Introduction to web servers and Server Products	
13.	Introduction to databases	
14.	MYSQL, MS ACCESS	

15.	Pharmacy Drug database	
Module 3: Application of computers in Pharmacy		
16.	Drug information storage and retrieval	
17.	Pharmacokinetics, Mathematical model in Drug design	
18.	Hospital and Clinical Pharmacy, Electronic Prescribing and discharge (EP) systems	
19.	Barcode medicine identification and automated dispensing of drugs	
20.	Mobile technology and adherence monitoring, Diagnostic System	
21.	Lab-diagnostic System, Patient Monitoring System	
22.	Pharma Information System	
Module 4: Bioinformatics		
23.	Introduction to Bioinformatics	
24.	Objective of Bioinformatics	
25.	Bioinformatics Databases	
26.	Concept of Bioinformatics	
27.	Impact of Bioinformatics in Vaccine discovery	
Module 5: Computers as data analysis in Preclinical development		
28.	Introduction of computers as data analysis in preclinical development	
29.	Chromatographic data analysis (CDS)	
30.	Laboratory Information management System (LIMS)	
31.	Text Information Management System(TIMS)	
Revision		
32.	Revision of previous question papers	
33.	Revision of previous question papers	
34.	Revision of previous question papers	
35.	Revision of previous question papers	
36.	Revision of previous question papers	

Teacher in-charge

HOD

Principal