Marwadi University

COURSE	FACULTY OF PHYSIOTHERAPY
PROGRAM	BACHELOR OF PHYSIOTHERAPY
SEMESTER	1
COURSE TITLE	COMPUTER APPLICATIONS
COURSE CODE	17PT1109
COURSE CREDITS	1

Course Outcomes:
At the end of course, the candidate will be able to...
1. Understand the fundamentals of computers and their applications in clinical setups.

Pre-requisite of course: To understand the basics of computer.

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
0	0	40	0	0	0	0	0

Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
1	**1. Introduction to Data Processing** 1.1 Features of computers. What are Hardware and Software? , 1.2 Advantages of using computers. Role and uses of computers. What is data processing?, 1.3 Application areas of computers and common activities in data processing. Types of data processing, characteristics of the application.	10
2	**2. Hardware Concepts:** 2.1 The architecture of computers – characteristics of discs, tapes, terminals, printers, network. , 2.2 Types of storage devices, 2.3 Concept of damage. Application of networking concept of PC system care, floppy care, data care, etc.	10
3	**3. Concept of Software** 3.1 Classification of software: System software., 3.2 Application of software, Operating System, Computer System, computer virus, precautions against viruses, dealing with viruses, computers in medical electronics.	10
4	**4. Basic anatomy of Computers:** 4.1 Principles of Programming: Computer application – principles in scientific research, word processing, medicine, libraries, museum, education, information system. , 4.2 Data processing , 4.3 Computers in Physical Therapy – Principles of EMG, Exercise testing equipment, Laser	10

Total Hours	40

Recommended Study Materials:

Textbooks:

1.   Computing Fundamentals by Faithe Wempen, Latest Edition, Wiley Publications

Reference books:

1.   Microsoft Office 2019 all-in-one by Peter Weverka, Latest Edition, Wiley Publication.