



|                       |                                  |
|-----------------------|----------------------------------|
| <b>INSTITUTE</b>      | <b>FACULTY OF PHYSIOTHERAPY</b>  |
| <b>PROGRAM</b>        | <b>BACHELOR OF PHYSIOTHERAPY</b> |
| <b>YEAR</b>           | <b>1</b>                         |
| <b>COURSE TITLE</b>   | <b>INFORMATION TECHNOLOGY</b>    |
| <b>COURSE CODE</b>    | <b>BPT-109</b>                   |
| <b>COURSE CREDITS</b> | <b>4</b>                         |

**Objective:**

- 1 To know the parts of computer
- 2 To have working knowledge of a computing system
- 3 Use computer for word processing and presentation, data management and use the internet for personal and professional purpose
- 4 Understand the role of digital technology in the Health sciences

**Course Outcomes:** After completion of this course, student will be able to:

- 1 To know the parts of computer
- 2 To have working knowledge of a computing system
- 3 Use computer for word processing and presentation, data management and use the internet for personal and professional purpose
- 4 Understand the role of digital technology in the Health sciences

**Pre-requisite of course:** A basic familiarity with operating a computer at the beginner level is typically required.

**Teaching and Examination Scheme**

| <b>Theory Hours</b> | <b>Tutorial Hours</b> | <b>Practical Hours</b> | <b>ESE</b> | <b>IA</b> | <b>CSE</b> | <b>Viva</b> | <b>Term Work</b> |
|---------------------|-----------------------|------------------------|------------|-----------|------------|-------------|------------------|
| 60                  | 0                     | 0                      | 0          | 0         | 0          | 0           | 0                |

| <b>Contents : Unit</b> | <b>Topics</b>                                                                                                                                                                                                                                                                             | <b>Contact Hours</b> |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1                      | <b>Introduction to computer</b><br>Introduction, characteristics of computer, block diagram of computer, generations of computer, computer languages.                                                                                                                                     | 2                    |
| 2                      | <b>Input output devices</b><br>Input devices (keyboard, point and draw devices, data scanning devices, digitizer, electronic card reader, voice recognition devices, vision-input devices), output devices(monitors, pointers, plotters, screen image projector, voice response systems). | 1                    |
| 3                      | <b>Processor and memory</b><br>The Central Processing Unit (CPU), main memory.                                                                                                                                                                                                            | 2                    |
| 4                      | <b>Storage Devices</b><br>Sequential and direct access devices, magnetic tape, magnetic disk, optical disk, mass storage devices.                                                                                                                                                         | 1                    |
| 5                      | <b>Introduction of windows</b>                                                                                                                                                                                                                                                            | 3                    |



|                    |                                                                                                                                                                                                                                                                                                |           |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|                    | History, features, desktop, taskbar, icons on the desktop, operation with folder, creating shortcuts, operation with windows (opening, moving, resizing, minimizing and maximizing, etc.).                                                                                                     |           |
| 6                  | <b>Introduction to MS-Word</b><br>introduction, components of a word window, creating, opening and inserting files, editing a document file, page setting and formatting the text, saving the document, spell checking, printing the document file, creating and editing of table, mail merge. | 2         |
| 7                  | <b>Introduction to Excel</b><br>introduction, about worksheet, entering information, saving workbooks and formatting, printing the worksheet, creating graphs.                                                                                                                                 | 3         |
| 8                  | <b>Introduction to power-point</b><br>introduction, creating and manipulating presentation, views, formatting and enhancing text, slide with graphs/ photos/ Videos.                                                                                                                           | 3         |
| 9                  | <b>Introduction of Operating System</b><br>introduction, operating system concepts, types of operating system.                                                                                                                                                                                 | 1         |
| 10                 | <b>Computer networks</b><br>introduction, types of network (LAN, MAN, WAN, Internet, Intranet), network topologies (star, ring, bus, mesh, tree, hybrid), components of network.                                                                                                               | 1         |
| 11                 | <b>Internet and its Applications</b><br>definition, brief history, basic services (E-Mail, File Transfer Protocol, telnet, the World Wide Web (WWW)), www browsers, use of the internet.                                                                                                       | 1         |
| <b>Total Hours</b> |                                                                                                                                                                                                                                                                                                | <b>20</b> |

#### Suggested List of Experiments:

| Contents :<br>Unit | Topics                                                                                                                                                                    | Contact<br>Hours |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 1                  | <b>Practical on fundamentals of computers -</b><br>Learning to use MS office: MS word, MS PowerPoint, MS Excel.,<br>To install different software., Data entry efficiency | 40               |
| <b>Total Hours</b> |                                                                                                                                                                           | <b>40</b>        |

#### Textbook :

- 1 Basic Computer & Information Science for Physiotherapy Students, Priyanka Randhir, CBS Publishers & Distributors Pvt. Ltd., 2023

#### Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

| Distribution of Theory for course delivery |            |       |         |          |                                        |
|--------------------------------------------|------------|-------|---------|----------|----------------------------------------|
| Remember /<br>Knowledge                    | Understand | Apply | Analyze | Evaluate | Higher order<br>Thinking /<br>Creative |
| 0.00                                       | 0.00       | 35.00 | 35.00   | 30.00    | 0.00                                   |



**Instructional Method:**

- 1 Interactive lectures
- 2 Demonstration