

<b>SEMESTER - I</b> <b>CORE - I</b> <b>PART - III</b>	<b>22PINTO17-1: Open Elective – 1 (A): FUNDAMENTALS OF COMPUTER APPLICATION</b>	<b>CREDITS: 3</b> <b>HOURS: 75</b>
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### **Learning Outcomes**

1. To know about computer and basic applications of computer.
2. To get knowledge about operating system
3. To aim at imparting a basic level appreciation Programme
4. To Understand word processing
5. To develop Word spread sheet and power point Presentation

### **UNIT I: KNOWING COMPUTER**

What is Computer - Basic Applications of Computer - Components of Computer System -Central Processing Unit (CPU) – VDU -Keyboard and Mouse - Other input/output Devices -Computer Memory - Concepts of Hardware and Software - Concept of Computing - Data and Information; Applications of IECT - Connecting keyboard – mouse - monitor and printer to CPU and checking power supply.

### **UNIT II: OPERATING COMPUTER USING GUI BASED OPERATING SYSTEM**

What is an Operating System - Basics of Popular Operating Systems - The User Interface -Using Mouse - Using right Button of the Mouse and Moving Icons on the screen - Use of Common Icons - Status Bar - Using Menu and Menu – selection - Running an Application -Viewing of File - Folders and Directories - Creating and Renaming of files and folders -Opening and closing of different Windows - Using help - Creating Short cuts - Basics of OS Setup-Commonutilities.

### **UNIT III: UNDERSTANDING WORD PROCESSING**

Word Processing Basics – Opening and Closing of documents-Text creation and Manipulation –Formatting of text-Table handling-Spell check-language setting and thesaurus-Printing of word document.

### **UNIT IV: USING SPREADSHEET**

Basics of Spread sheet - Manipulation of cells - Formulas and Functions - Editing of Spread Sheet-printing of Spread Sheet.

### **UNIT V: MAKING SMALL PRESENTATION**

Basics of presentation software-Creating Presentation-Preparation and Presentation of Slides-Slide Show-Taking print outs of presentation/handouts.

### **Text Books**

1. Introduction to Computer Applications , TNAU , TamilNadu  
<https://www.agrimoon.com/introduction-to-computer-applications-pdf-book/>

**Web References**

1. <https://homepage.cs.uri.edu/faculty/wolfe/book/Readings/Reading0>
2. <https://peda.net/kenya/ass/subjects2/computer-studies/form-1/itc2>

**Course Outcomes**

After completing the Course successfully, the student will be able to

1. Students are able to know about computer and basic applications of computer.
2. Students are able to get knowledge about operating system
3. Students are able to aim at imparting a basic level appreciation Programme
4. Students can able to make spread sheets and its styles
5. Students get knowledge about Power point presentation.

**OUTCOME MAPPING**

<b>COs/POs</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>1</b>
<b>CO2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>2</b>
<b>CO3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>
<b>CO4</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>
<b>CO5</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1</b>

1-LOW    2- MEDIUM    3- HIGH

<b>SEMESTER - I</b>	<b>22PINTO17-2: Open Elective – 1 (B): E-COMMERCE</b>	<b>CREDITS: 3</b> <b>HOURS: 75</b>
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### **Learning Outcomes**

1. Discuss fundamentals of e-commerce, types and applications.
2. Evaluate the role of the major types of information systems in a business environment and their relationship to each other
3. Assess the impact of the Internet and Internet technology on business electronic commerce and electronic business
4. Learn strategies for e-commerce, Mobile Commerce, Wireless Application Protocol
5. Learn WAP technology and Mobile Information devices.

### **Unit I: INTRODUCTION**

Definition of Electronic Commerce, E-Commerce: technology and prospects, incentives for engaging in electronic commerce, needs of E-Commerce, advantages and disadvantages, framework, Impact of E-commerce on business, E-Commerce Models.

### **Unit II: NETWORK INFRASTRUCTURE FOR E- COMMERCE**

Internet and Intranet based E-commerce- Issues, problems and prospects, Network Infrastructure, Network Access Equipments, Broadband telecommunication (ATM, ISDN, FRAME RELAY). Mobile Commerce: Introduction, Wireless Application Protocol, WAP technology, Mobile Information device.

### **Unit III: WEB SECURITY**

Security Issues on web, Importance of Firewall, components of Firewall, Transaction security, Emerging client server, Security Threats, Network Security, Factors to consider in Firewall design, Limitation of Firewalls.

### **Unit IV: ENCRYPTION**

Encryption techniques, Symmetric Encryption: Keys and data encryption standard, Triple encryption, Secret key encryption; Asymmetric encryption: public and private pair key encryption, Digital Signatures, Virtual Private Network.

### **UNIT V: ELECTRONIC PAYMENTS**

Overview, The SET protocol, Payment Gateway, certificate, digital Tokens, Smart card, credit card, magnetic strip card, E-Checks, Credit/Debit card-based EPS, online Banking. EDI Application in business, E- Commerce Law, Forms of Agreement, Govt. policies and Agenda.

**Text Books**

1. Ravi Kalakota, Andrew Winston, "Frontiers of Electronic Commerce", Addison Wesley.

**Supplementary Readings**

1. Pete Lohsin, John Vacca "Electronic Commerce", New Age International, 2006.
2. Sandeep Srivastava, Meera Goyal, Shalu Porwal, "E-Commerce", SBPD Publications, 2021.
3. Goel, Ritendra, "E-commerce", New Age International, 2007.
4. Laudon, "E-Commerce: Business, Technology, Society", Pearson Education, 2008.
5. Bajaj and Nag, "E-Commerce the cutting edge of Business", TMH. 2005.

**Course Outcomes**

After completing the Course successfully, the student will be able to

1. Understand the basic concepts and technologies used in the field of management information systems
2. Understand the processes of developing and implementing information systems
3. Be aware of the ethical, social, and security issues of information systems and develop an understanding of how various information systems work together to accomplish the information objectives of an organization
4. Understand the role of information systems in organizations, the strategic management processes, and the implications for the management.
5. Learn about the importance of managing organizational change associated with information systems implementation.

**OUTCOME MAPPING**

1.

COs / POs	PO1	PO2	PO3	PO4	PO5
CO1	3	2	1	3	3
CO2	3	3	2	2	2
CO3	3	2	3	2	3
CO4	2	3	2	3	2
CO5	1	3	3	3	2

1-LOW    2- MEDIUM    3- HIGH

<b>SEMESTER - I</b>	<b>22PINTO17-3: Open Elective – 1 (C): Internet and its Applications</b>	<b>CREDITS: 3 HOURS: 75</b>
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### **COURSE OBJECTIVES**

1. To understand the basic ideas of internet and its applications.
2. Learn internet technologies
3. Learn types of servers
4. To understand various networks
5. A study of Current online applications

#### **Unit-1**

Introduction To The Internet: Computer in Business - Networking - Internet - E-mail - Resource Sharing - Gopher - World Wide Web - Telnet - Bulletin Board Service - Wide Area Information Service.

#### **Unit-2**

Internet Technologies: Modem - Internet addressing - Physical connections - Telephone Lines - Internet browsers - Internet Explorer - Netscape Navigator.

#### **Unit-3**

Web Server - Proxy Server - Web Browser - Search Engines - Search Tools - Firewalls - Data Security.

#### **Unit-4**

Internet Relay Chat - Types of Network - Packet Switched Network - Circuit Switched Network - TCP/IP - Internet Protocol.

#### **Unit-5**

Case Study: Online Passport - Online Gas Services - Online Train Reservation - Tamilnadu government services

#### **Text books**

1. C Xavier, "World Wide Web with HTML", Tata McGraw Hill Education, (2000).
2. H.M.Deital, P.J. Deital, "Internet and World Wide Web - How to Program", 4th Edition "PHI Learning.
3. Raj Kamal, "Internet and Web Technologies", 7th Reprint, Tata McGraw Hill Education, (2007)

**Course Outcomes (CO)**

After completing the Course successfully, the student will be able to

1. Understand Internet technologies.
2. Understand basics of communications
3. Learn about web servers
4. Learn about web browser and search engines
5. Learn about online applications

**OUTCOME MAPPING**

<b>COs/ POs</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>
<b>CO2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>CO3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>1</b>
<b>CO4</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>CO5</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>

**1-LOW    2- MEDIUM    3- HIGH**