

MARIS STELLA COLLEGE (AUTONOMOUS), VIJAYAWADA – 8
(Affiliated to Krishna University)

SYLLABUS

Subject: Computer Science

Semester: II

**Course Title: Information Technology
for Managers**

Course code: 20CSCCIM24

No. of Hours: 75

LTP: 410

Credits: 4

Objectives

- To understand the importance of Information Technology in any organization.
- To impart IT basics and Internet basics.
- To prepare the students for life-long learning of computer concepts and skills.

Course Outcomes

CO1: Understand basic applications and concepts of information technology.

CO2: Identify hardware components, categories of programs, system software and applications.

CO3: Create Excel reports and Power Point Presentation.

CO4: Solve common business problems using appropriate Information Technology applications and systems.

UNIT-I

(15 Hrs.)

IT in the Modern Organization: Basic concepts of Information Systems – Organizational structure and IT support. IT support at different organizational levels Managing Information Technology in organizations.
Introduction to Computer Systems: Introduction to Computers – Five generations of Modern Computers – Classification of Digital Computer Systems.

UNIT-II

(15 Hrs.)

Computer Hardware: Computer Hardware: Central Processing Unit (CPU) Control unit and Arithmetic and logic unit (ALU).

Memory: Memory Organization – Random Access Memory (RAM), Dynamic RAM (DRAM, Static RAM (SRAM). Read Only Memory (ROM), Registers.

Secondary Storage Devices : Magnetic Tape, magnetic Disks, Hard Disks, Flexible Disks, Optical Disk.

Input Devices: Key Board, Mouse, Trackball, Game Controllers, Scanners, Voice Recognition, Web Cams, Digital Cameras, OCR, OMR, MICR.

Output Devices: Monitor: CRT Monitors, Flat- Panel Monitors– Printers: Daisy- wheel, DoT- Matrix, Ink- jet Printer – Plotter, Multimedia Projector.

UNIT–III (15 Hrs.)

Computer Software: System Software and Application Software. Operating Systems: Windows Operating Systems, Mobile Device Operating Systems, and Notebook Operating Systems.

Application Software: Types of Personal Application Software. Spreadsheets – Data Management – Word Processing – Desktop Publishing, Graphics, CAD, CAM, CIM, Multi Media. Speech- recognition Software, Groupware, Software suits.

Programming Languages: Assembly language, Procedural languages, Non - procedural languages, Natural Programming Languages, Visual Programming Languages, Hyper Text Markup Language, Modeling Language, Object - Oriented Programming Languages.

UNIT–IV (15 Hrs.)

Telecommunications and Networks: Introduction, Analog and Digital Signals. Modulation – Need for Modulations, Types of Modulations, Modems

Communication Media & Channels: Cable Media, Broadcast Media Channels. Twisted Pair, Coaxial Cable, Fiber - Optic Cable, Microwave, Satellite, Radio, Cellular Radio, Infrared Global Positioning Systems

Networks: Local Area Networks, LAN Topologies, Wide Area Networks (WAN) – Value Added Networks (VAN) – Virtual Private Networks (VPN)

The Internet, Intranets and Extranets: The Evolution of the Internet, Services provided by the Internet, World Wide Web: Intranets & Extranets.

UNIT- V (15 Hrs.)

MS- Excel: Overview of Excel features – Creating a new worksheet, Selecting cells, Entering and editing Text, Numbers, Inserting Rows/Columns – Changing column widths, Changing font sizes and colors, Insertion and row heights, Formulae, Referencing of Charts, Auto fill, Sort.

MS- PowerPoint: Features of Power Point – Creating a Presentation - Inserting and Deleting Slides in a Presentation – Adding Clip Art/Pictures - Inserting Other Objects, Audio, Video - Resizing and scaling of an Object

– Slide Transition – Custom Animation.

Co-Curricular Activities

- Assignments on problem solving
- Student presentations and seminars
- Online quizzes

Prescribed Books:

1. Ms. J. J. L. R. Bharathi Devi, M.Com., MBA., MCA., M.Phil (Computers), M.Phil. (Management) A Text Book on Information Technology, Maruthi Book Depot, Guntur.

2. N. V. N. Chary & Lalitha S., Fundamentals of Information Technology, Kalyani Publishers, Hyderabad.

Reference Books:

1. Turban, Rainer, Potter “ Introduction to Information Technology”, Wiley India [2nd Edition]

2. Alexi's Leon and Mathews Leon, Fundamentals of Information Technology, Leon Press [2nd Edition]

MARIS STELLA COLLEGE (AUTONOMOUS), VIJAYAWADA – 8
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Blueprint

Subject: Computer Science

Semester: II

**Course Title: Information Technology
for Managers**

Course code: 20CSCCIM24

Time: 3 Hrs.

Max.Marks:100

SECTION – A

Answer **ALL** questions

20 x 1 = 20 M

Q. No.	UNIT	Marks Weightage	RBT LEVEL
1	I	1	No. of questions to be set RBT1 – 8 RBT2 – 8 RBT3 – 2 RBT4 – 2
2	I	1	
3	II	1	
4	II	1	
5	III	1	
6	III	1	
7	IV	1	
8	IV	1	
9	V	1	
10	V	1	
11	I	1	
12	I	1	
13	II	1	
14	II	1	
15	III	1	
16	III	1	
17	IV	1	
18	IV	1	
19	V	1	
20	V	1	

SECTION – BAnswer any **FOUR** questions**4 x 8 = 32 M**

Q. No.	UNIT	Marks Weightage	RBT LEVEL
21	I	8	No. of questions to be set RBT1 – 2 RBT2 – 2 RBT3 – 1 RBT4 – 1
22	II	8	
23	III	8	
24	IV	8	
25	V	8	
26	I / II / III / IV / V	8	

SECTION – CAnswer any **FOUR** questions**4 x 12 = 48 M**

Q. No.	UNIT	Marks Weightage	RBT LEVEL
27	I	12	No. Of questions to be set RBT1 – 2 RBT2 – 2 RBT3 – 1 RBT4 – 1
28	II	12	
29	III	12	
30	IV	12	
31	V	12	
32	I / II / III / IV / V	12	

MARIS STELLA COLLEGE (AUTONOMOUS), VIJAYAWADA – 8

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Model Question Paper

Subject: Computer Science

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Time: 3 Hrs.

Max. Marks: 100

Section – A

Answer ALL questions

20 x 1 = 20 M

1. Which of the following is not a class of information system applications?
 - A. database management system
 - B. decision support system
 - C. expert system
 - D. management information system
2. What is the full form of DRAM?
 - A. Dynamic Remote Access Memory
 - B. Dynamic Random- Access Memory
 - C. Dependent Remote Access Memory
 - D. Dependent Random- Access Memory
3. Operating system is the part of _____
 - A. Application software
 - B. High level language
 - C. System software
 - D. Programming language
4. What kind of transmission medium is most appropriate to carry data in a computer network that is exposed to electrical interferences?
 - A. Unshielded twisted pair
 - B. Optical fiber
 - C. Coaxial cable
 - D. Microwave
5. One can fill name of the months in a Excel sheet using this feature.
 - A. Fill option
 - B. Auto Months
 - C. Auto fill
 - D. Auto write
6. _____ can be defined as data that has been processed into a form that is meaningful to the recipient and is of real or perceive value in current or prospective decisions.
 - A. Technology

- B. Information
 - C. System
 - D. Service
7. Which of the following is not a class of information system applications?
 - A. database management system
 - B. decision support system
 - C. expert system
 - D. management information system
 8. Who have concerned with tactical (short-term) operational problems and decision making?
 - A. supervisors
 - B. mobile managers
 - C. middle managers
 - D. executive managers
 9. The operational level is concerned with performing day to day business transactions of the organization.
 - A. Middle Level Management
 - B. Strategic Management Level
 - C. Tactical Management Level
 - D. Operational Management Level
 10. What is five main components of a computer system?
 - A. CPU, CD-ROM, Mouse, Keyboard, Sound card
 - B. Memory, Video card, Monitor, Software, Hardware
 - C. Memory, Video card, Monitor, Software, Hardware
 - D. CPU, Memory, control unit, Input, Output
 11. _____ is data that has been organized or presented in a meaningful fashion.
 12. In terms of _____ the file_put_contents() is making the difference in file programs.
 13. IT refers to the use of _____ and _____ for processing information.
 14. The data that is processed is called a _____.
 15. What is the full form of DRAM? _____
 16. _____ is the smallest visual element on a video monitor.
 17. Computer is free from tiresome and boredom. We call it _____.
 18. Microprocessors as switching devices are for _____ generation computers.
 19. The temporary memory of computer is _____.
 20. Operating system is the part of _____.

Section – B

Answer any FOUR questions

4 x 8 = 32 M

21. Give a brief introduction to the Generations of Computers.
22. Write a short note on the primary memory of a computer.
23. Write a short note on the following.
 - i. Hyper Text Markup Language
 - ii. Object Oriented Languages
24. Explain different types of topologies in a LAN network.
25. Explain the step by step process of creating a Powerpoint presentation.
26. Explain about various output devices.

Section – C

Answer any FOUR questions

4 x 12 = 48 M

27. Define Information System. Elaborate on different types of Information Systems.
28. What are the various Input devices available? Write about any four input devices.
29. What is Application Software? Elaborate some popular application software's.
30. Explain in detail about Communication media and channels.
31. Prepare sales data of an organization and explain the step by step process of representing the same data in the form of C harts.
32. What are the various programming languages? Explain in detail.