

FUNDAMENTALS OF COMPUTING

Paper Code: ETCS-111

Paper: Fundamentals of Computing

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INSTRUCTIONS TO PAPER SETTERS:

Maximum Marks : 75

1. Question No. 1 should be compulsory and cover the entire syllabus. This question should have objective or short answer type questions. It should be of 25 marks.
2. Apart from Question No. 1, rest of the paper shall consist of four units as per the syllabus. Every unit should have two questions. However, student may be asked to attempt only 1 question from each unit. Each question should be 10 marks

Objective: The objective of the paper is to facilitate the student with applied working knowledge of computers. This is the first course of computing and does not assume any pre-requisite.

UNIT-I

Five Component Model of a Computer, System and Application software (introduction) storage devices , primary (RAM, ROM, PROM, EPROM, cache) Memory and secondary (magnetic tape, hard disk, Compact disks) memory , peripheral devices , printers.

[T1], [T2][8 Hours]

UNIT-II

Operating Systems: DOS Internal, External commands, Windows (2000 and NT) , Overview of architecture of Windows, tools and system utilities including registry , partitioning of hard disk , Overview of Linux architecture , File system , file and permissions , concept of user and group , installation of rpm and deb based packages.

[T1], [T2][8 Hours]

UNIT-III

Basics of programming through flow chart , Networking Basics - Uses of a network and Common types of networks , Network topologies and protocols , Network media and hardware , Overview of Database Management System.

[T1],[T2],[R1][8 Hours]

UNIT-IV

Libre / Open Office Writer : Editing and Reviewing, Drawing, Tables, Graphs, Templates

Libre / Open Office Calc : Worksheet Management , Formulas, Functions, Charts

Libre / Open Office Impress: designing powerful power-point presentation

[R2][R3] [8 Hours]

Text:

[T1] Peter Norton, Introduction to computers, Sixth Edition Tata McGraw Hill (2007).

[T2] Andrews Jean, A+Guide to Managing & Maintaining Your PC, Cengage Publication 6/e

References:

[R1] Anita Goel, Computer Fundamentals, Pearson Education.

[R2] Joiner Associates Staff, Flowcharts: Plain & Simple: Learning & Application Guide , Oriol Inc

[R3] <http://www.openoffice.org/why/>

[R4] <http://www.libreoffice.org/get-help/documentation/>