

IT110 INTRODUCTION TO INFORMATION TECHNOLOGY

IT110 INTRODUCTION TO INFORMATION TECHNOLOGY 2-0-0

COURSE OBJECTIVE:

This course introduces students about the basic fundamentals of Information Technology (IT). Students are expected to learn about applications of IT in communication, multimedia, internet and cloud computing.

COURSE CONTENT:

Data and Information: Introduction, Type of data, Simple model of computer.

Data processing using a computer: Introduction to Operating System, Data storage Media, High capacity network storage media.

Introduction to Database Management System; Database modelling; Relational model; Distributed DBMS; Data warehouse, Data mining; Classification of Language and Applications

IT Application in Communication: Network services-telephone services, Cellular telephone services, Radio and TV broadcasting, Audio-Visual conferencing, Video-on-demand.

Internet Technology: Introduction, Working of internet, Introduction to network protocol and topologies, Types of network: LAN, WAN, Web browser.

Internet Services: E-mail, Telnet, FTP, WWW, HTML, URL.

IT Application in Multimedia: Introduction, Components of multimedia and challenges, Video compression, Video coding technology: JPEG, MPEG, And JBIG.

Introduction to cloud computing: Types, Services, Models, Characteristics, Benefits and Challenges, Application, Limitations.

IT Application in E-Commerce and E-Governance: Introduction, Different Types of E-Commerce with examples, Advantages and disadvantages, E-Commerce in India, E-Services, E-Commerce security, Internet security and ethics, Technology issues, Social issues, Introduction to E-Governance, Challenges, Application, advantages, Case study of MP-online and IRCTC

Social impact of information technology: Introduction, Social Uses of World Wide Web, Social networking Services, Privacy, security and integrity of Information ,Disaster recovery Intellectual property rights, IT Enabled Services and careers, Career in information technology, Case study of NPTEL.

EVALUATION

Evaluation will be continuous an integral part of the class only through internal assessment

REFERENCES:

V.Rajaraman, Introduction to Information Technology;
PHI E Balagurusamy, Fundamentals of Computers, TMH Santiram Kal Basic Electronics,
PHI
M.N. Rao Cloud Computing, PHI