SECOND SEMESTER
Course Title: COMPUTER FUNDAMENTAL
Inter Dept. Course (IDC) or Open Elective
Course Code: IDC (CSA)-429
No. of Credits -3

Unit-1

Introduction: Introduction to computer system, uses, types.
Data Representation: Number systems and character representation, binary arithmetic,
Software: Introduction, types of software, fundamentals of Operating system, utility programs

Unit-2

Input and output devices (with connections and practical demo): keyboard, mouse, joystick, scanner, OCR,
OMR, bar code reader, web camera, monitor, printer
Computer Memory: Primary, secondary, auxiliary memory, RAM, ROM, cache memory, hard disks, optical disks

Unit-3

Computer Organization and Architecture Fundamentals: C.P.U., registers, system bus, main memory unit,
cache memory,
Computer Networking Fundamentals: Introduction, Types of Networks, Internet, Email, Client-Server,
Web Services.
Recommended Books:

1. A. Goel, Computer Fundamentals, Pearson Education, 2010.
2. P. Aksoy, L. DeNardis, Introduction to Information Technology, Cengage Learning, 2006
3. P. K.Sinha, P. Sinha, Fundamentals of Computers, BPB Publishers, 2007