

**JYOTI NIVAS COLLEGE AUTONOMOUS  
SYLLABUS FOR 2018 BATCH AND THEREAFTER**

**Programme: B.A. / B.Sc. / B.C.A. / B.Sc. / B.B.A. / B.Com. / B.Com. (BL) / B.Com. (TM) /**

**Int. B.Sc.-M.Sc./Int.B.Com.-M.Com.**

**Semester: I/II/III/IV**

**COMPUTER FUNDAMENTALS**

**Course Code: 18CF**

**No. of Hours: 45**

**UNIT 1:**

**07 HRS**

**Introduction:** Definition-Applications-History and Classification of computers -basic operations of a computer, **Block diagram:**CPU-ALU- CU- **Input Devices:** Keyboard, Mouse, Joystick, Scanner, OMR, MICR, Bar code reader, Card reader, Camera, - **Output Devices** Printers- Laser printer, Dot matrix, Inkjet printer, Plotters, Projector, Speakers, **Memory** – Primary – RAM, ROM ,Cache , Secondary memory - hard disk, CD, pen drive.

**UNIT 2:**

**05 HRS**

**Computer Software and DBMS-** Introduction, **Types of software-**Application Software-System software – Operating systems - Functions and types of o/s,**Language translators** –Compilers, Interpreter, Assemblers-**Database Management System:** Database- DBMS- Application , Advantage and Disadvantages of DBMS.

**UNIT 3:**

**06 HRS**

**Basics of Networks:** Network definition ,Types of networks :Client /Server-LAN-WAN-MAN-**Network topologies:** Bus-Ring-Star-Tree-Hybrid - **Modem- Network Security** :Basic concepts of security- **Hacking- Mobile communication:** Introduction-Differences between Wired and wireless communication-Applications of mobile communication- Effects of mobile communication-**GSM** : Introduction-GPRS-Bluetooth.

**UNIT 4:**

**06 HRS**

**Internet and Multimedia Technology-** Internet basics-**Internet Access- Internet Addressing-** IP Address- Domain Name.**WWW-** Web pages-Web browsers-URL- **E-Commerce** – Introduction-Transaction-Types of E-Commerce - Difference between E-commerce and traditional system - **various electronic payment systems**-EPS and EDI working- **Multimedia Technology** - Introduction to Multimedia-applications of multimedia-forms of Computer Graphics- **Graphics effects**-3D graphics-Animation-Morphing-**Virtual reality**

**UNIT 5:**

**06 HRS**

**Overview of Emerging Technology:****Data Mining-**Introduction-Evolution-Application-Advantage - **Geographic Information System-**Introduction -Components- GIS & related technology - **Cloud Computing-** Introduction-Applications - **Artificial Intelligence-** Introduction- Applications - **Internet of Things-**Introduction-Applications-**Computer Virus** –Types of Computer virus – Antivirus - **Free and Open-source software.**

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