DEPARTMENT OF COMPUTER SCIENCE

Introduction :

Department of B.Com with (Computer Science) is established in the academic year 2015-16. The sanctioned student's strength is 60. The highlights of the department as follows,

- ✓ The department provides in-depth knowledge about the subjects 1through quality education.
- ✓ The course involves design and development of programs like MS-Office, C, SQL, Tally, VB, and HTML.
- ✓ The department conducts Guest Lectures, Seminars, Workshops and takes students to industrial visits.
- ✓ The department prepares students to pursue post Graduation Courses and professional courses like CA, ICWA.
- ✓ The course provides dual employment opportunities in the field of both Commerce and IT.
- ✓ The department grooms the students as outstanding professionals in harmony with corporate expectation.

Department Vision

To provide quality education in the field of Commerce with Computer Applications and transform the students into competent Commerce professionals enabling attainment of social and economic goals.

Department Mission

The mission of the Computer Science Department is to prepare students for careers as software professionals and for advanced studies in Computer Science. We develop and work with a range of technologies to build systems and applications that help solve today's problems, and share skills and knowledge with the community.

Programme Educational Objective (PEO)

The graduate will

PEO1 :	To get in depth knowledge in Commerce and Computer Application courses.
PEO2 :	Posses competent skills in micro areas like Accounting, Taxation, Banking,
	Insurance and E-Commerce.
PEO3 :	Be able to find solutions to the real time problems in the business with the
	specialized knowledge developed through practical training.
PEO4 :	Develop a programme for system based applications and web page creation for
	business enterprises.
PEO5 :	Work in teams with enriched communication and intellectual skills.

Programme Outcome (PO)

At the end of the programme, graduating students/graduates will be able to

PO1 :	Gain knowledge in commerce and accounting software for corporate
	requirements.
PO2 :	Get employment in IT fields, Software, Banks, Companies, BPOs and KPOs.
PO3 :	Demonstrate professional ethics in the social and legal aspects of commerce.
PO4 :	Motivate to pursue higher education
PO5 :	Integrate the ethical behavior in self-learning, apply towards lifelong learning and
	acquiring knowledge in modern corporate and the IT sector.

Program Specific Outcome (PSO)

- **PSO1:** Understand the concepts of commerce and computer application operations.
- **PSO2:** Apply the current techniques, skills, and tools necessary for computing practices.
- **PSO3:** Ability to design, implement domain knowledge for computer programming.

Department of Computer Science

Course : B.Com (Computers)Year : ISemester : ISubject Name : Introduction to ComputersSubject Code : SC1.5

- CO1 Exploring the components and working principles of computer.
- CO2 Understand how the graphical data stored in memory and processing textual data
- CO3 Get to know about memory units, input and output devices
- CO4 Learn about computer software and the types of software.
- CO5 Gain knowledge about word-processing and presentation skills using MS-Office.
- CO6 Students can create text documents; insert header/footer and do formatting.
- CO7 Explore the features of MS Office and get to know about the tools like spell check
- CO8 Learn to insert pictures, objects, use the template and mail merge option.
- C09 Learn to create professional presentations using MS Powerpoint
- C10 Explore the features of MS Powerpoint and get to know about presentation tools like Slide Transition, Custom Animation.

Course : B.Com (Computers)Year : ISemester : ISubject Name : Programming in CSubject Code : SC1.6

- CO1 Exploring the characteristics and application of C Program.
- CO2 Understand the concept of Constants, Variables and Data Types.
- CO3 Get to know about operators and its expression.
- CO4 Learn about formatted and unformatted input and output statements.
- CO5 Gain knowledge about control statements like conditional and unconditional statements
- CO6 Learn about looping statements
- CO7 Learn about arrays and types of arrays.
- CO8 Learn about handling characters and strings.
- CO9 Understand the concept of functions, types of functions.
- C010 Learn to write C Programs on different applications.

Course : B.Com (Computers)Year : ISemester : IISubject Name : Numerical & Statistical MethodsSubject Code : SC2.5

- CO1 Describes the meaning and concepts of Statistics and numerical computing.
- CO2 Learn about computer arithmetic operations, polynomial interpolation solution to linear and non-linear equiation.
- CO3 Demonstrates different measures of central tendency, variations and identifies the significance of coefficient of variation.
- CO4 Identifies the various types of correlation and its significance.
- CO5 Estimates the value of unknown variable using regression.
- CO6 Learn about probability, normal and exponential probability distribution.
- CO7 Reveals the components of time series and analyze the causes of variations in Time Series.
- CO8 Learn to write C programs to solve statistical problems.

Course : B.Com (Computers)Year : ISemester : IISubject Name : System Analysis and DesignSubject Code : SC2.6

- CO1 Exploring the concept of Information and Data, Management Structure and qualities of information.
- CO2 Understand the role & task of System Analyst.
- CO3 Get to know about information gathering and system specific requirement.
- CO4 Learn about feasibility analysis, data flow diagrams, decision tables.
- CO5 Gain knowledge about database, data input methods and designing output.
- CO6 Learn about implementation of information system.
- CO7 Gain knowledge about Tally to maintain business records.
- CO8 Understand the concept of company, creating company in Tally
- CO9 Learn to create groups, ledgers, vouchers in Tally
- C010 Gain knowledge about profit and loss account and balance sheet in Tally

Course : B.Com (Computers)Year : IISemester : IIISubject Name : Database Management SystemSubject Code : SC3.5

- CO1 Understand the basic concepts of DBMS
- CO2 Gain the knowledge of functions, structure and types of DBMS
- CO3 Learn about physical and logical database models.
- CO4 Understand the concept of RDBMS, Keys and Normal Forms.
- CO5 Identifies the basic needs of SQL.
- CO6 Learn to create, alter and remove database in SQL.
- CO7 Understand the concept of retrieval data from database.
- CO8 Learn to create computed fields, sorting, built-in-functions.
- CO9 Gain the knowledge of join, union, views and indexes.
- CO10 Understand the concept of database backup, importance & causes of backup.
- CO11 Learn about database recovery, recovery techniques.

Course : B.Com (Computers)Year : IISemester : IIISubject Name : Management Information System-ISubject Code : SC3.6

- CO1 Understand the basic concepts of MIS.
- CO2 Gain the knowledge of MIS and other academic disciplines, sub systems of MIS.
- CO3 Learn about MIS professionals, structure of MIS, decision making, uses of MIS.
- CO4 Understand the concept of computer system, communication facilities and communication networks.
- CO5 Gain knowledge about storage and retrieval of data, physical storage devices, file and database organization.
- CO6 Learn about transaction processing, document preparation.
- CO7 Gain knowledge about information processing control.
- CO8 Understand the concept of information system availability controls and case study.

Course : B.Com (Computers) Subject Name : Business Computing

Year : II Semester : IV Subject Code : SC4.5

- CO1 Understand the basic concepts of HTML & HTML Documents.
- CO2 Gain the knowledge of creating HTML documents, Markup tags & Heading tags
- CO3 Learn about Text Formatting tags, Ordered & Unordered List tags.
- CO4 Understand the concept of Linking, Hyperlink, Bookmark.
- CO5 Gain the knowledge of creating Frames and Tabs.
- CO6 Learn about basic principles of web designing, navigation bar & page layout.
- CO7 Understand the concept of spreadsheet program like MS Excel.
- CO8 Learn to create workbook, mathematical calculations using functions in MS Excel.
- CO9 Gain the knowledge of manipulating data, sorting data, filtering data.
- CO10 Understand the concept of graphical representation of data using Charts.
- CO11 Learn about database management manipulating sheet.

Course : B.Com (Computers)Year : IISemester : IVSubject Name : Management Information System-IISubject Code : SC4.6

- CO1 Understand the basic concepts of system, types of system & sub system.
- CO2 Gain the knowledge of system stress and system change.
- CO3 Learn about organizational planning, characteristics of control process & information system support for control.
- CO4 Understand the concept of basic model of organizational structure, information processing model, organizational culture and power & organizational change.
- CO5 Gain knowledge about management theories, organizations as socio-technical systems and implementations of management theories.
- CO6 Learn about decision support system & expert system.
- CO7 Gain knowledge about planning support system.
- CO8 Understand the concept of support system for management of knowledge work.

Course : B.Com (Computers) Subject Name : Computer Networks

Year : III Semester : V Subject Code : SC5.5

- CO1 Understand the basic concepts of networks, data transmission.
- CO2 Gain the knowledge of classification of networks, transmission media & components of network.
- CO3 Learn about network standards, OSI Models & its layers.
- CO4 Understand the concept of IEEE standards, Ethernet, IEEE 802.4 & IEEE 802.5
- CO4 Gain the knowledge of token bus, token ring & X.25 protocol.
- CO5 Learn about LAN architecture, advantages and services.
- CO6 Understand the characteristics of LAN, LAN topologies & CSMA/CD based LAN
- CO7 Learn about IBM token ring network, high speed LAN& Fast Ethernet.
- CO8 Gain the knowledge of Gigabit Ethernet, FDDI Network & Wireless LAN.

Course : B.Com (Computers) Subject Name : Visual Programming

Year : III Semester : V Subject Code : SC5.6

- CO1 Understand the basic concepts of Visual Programming.
- CO2 Gain the knowledge of creating programs, running the programs & basic commands.
- CO3 Learn about drawing on the screen, drawing on the window, object & norms.
- CO4 Understand the concept of If Then command, adding menu bar & popup menus.
- CO5 Gain knowledge of array variables, saving programs and creating an EXE program.
- CO6 Learn about creating user interface programs & building address book.
- CO7 Gain knowledge about editing tools, searching, printing, sorting and deleting data.
- CO8 Understand the concept of data aware control, creating menu bar & writing code.

Course : B.Com (Computers)Year : IIISemester : VISubject Name : Internet & E-GovernanceSubject Code : SC6.5

- CO1 Understand the basic concepts of communication networks, LAN & WAN.
- CO2 Gain the knowledge of Protocols, OSI Model and its layers.
- CO3 Learn about Internet, TCP/IP & Client Server Model.
- CO4 Understand the concept of E-mail, USENET, WWW, Hyper Text.
- CO4 Gain the knowledge of HTTP, URL & HTML Programming.
- CO5 Learn about E-Commerce, Applications of E-Commerce & NSFNET
- CO6 Understand the concept of architecture and component of E-Commerce.
- CO7 Learn about Internet Governance, Internet Society & Internet Applications.
- CO8 Gain the knowledge of Client Server network security & Encrypted document.
- CO9 Understand the concept of Hypertext publishing, EDI & Information based marketing, advertising on the Internet.
- CO10 Learn about E-Governance applications in administration and planning.

Course : B.Com (Computers) Subject Name : Multimedia

Year : III Semester : VI Subject Code : SC6.6

- CO1 Understand the basic concepts of multimedia & elements of multimedia.
- CO2 Gain the knowledge of growth & categories of multimedia.
- CO3 Learn about hardware components of multimedia system playback system & development system.
- CO4 Understand the concept of texts & graphics, sound, animation and video.
- CO5 Gain knowledge about multimedia authoring programs, delivering multimedia.
- CO6 Learn about developing multimedia titles planning, creating and testing phase.
- CO7 Gain knowledge about basic design principles of multimedia, interactive design.
- CO8 Understand the concept of producing and distributing multimedia titles.
- CO9 Learn about the internet and world wide web.
- CO10 Gain the knowledge of issues and trends in multimedia.