

B.A. Programme (Computer Applications)

COURSE OUTCOMES

CORE COURSES

Computer Fundamentals (Theory)

By the end of the course, the students will be able to:

CO1	Handle a computer system for day-to-day use.
CO2	Enumerate different types of input/ output devices and types of memory
CO3	Perform basic arithmetic operations using different number systems including binary arithmetic
CO4	Differentiate between system and application software.
CO5	Prepare documents / spreadsheets.

Database Management Systems (DBMS)(Theory)

CO-1	Differentiate between database systems and file systems.
CO-2	Describe the features of database management systems.
CO-3	Analyze the problem and arrive at an information model in the form of an er diagram.
CO-4	Normalize a database.
CO-5	Transform an er model into a relational database schema.

Computer Networks and HTML (Theory)

CO-1	Enumerate various network topologies and identify situations when different network topologies would be useful.
CO-2	Distinguish between LAN, MAN, WAN.
CO-3	Distinguish between intranet, extranet and internet.
CO-4	Describe client-server architecture.
CO-5	Enumerate different transmission media and describe the use of each of them.

CO-6	Design web pages using html.
-------------	------------------------------

Multimedia Systems and Applications (Theory)

CO-1	Enumerate and describe the multimedia components.
CO-2	Generate, manipulate and use images in multimedia projects using bitmap, vector and 3-D images.
CO-3	Create basic animations

DISCIPLINE SPECIFIC ELECTIVE COURSES (DSE)

DSE-1: Programming in Python (Theory)

CO-1	Select a suitable programming construct and inbuilt data structure for a situation.
CO-2	Develop and document modular python programs.
CO-3	Use classes and objects in application programs

DSE-2: Information Security and Cyber Laws (IS & CL) (Theory)

CO-1	Enumerate issues in computer security.
CO-2	Enumerate and describe common forms of attacks.
CO-3	Describe the importance of security policy in the security framework.
CO-4	Describe security related terms like cryptography, privacy, steganography.
CO-5	Describe the need for cyber laws, and important provisions of IT Act.

SKILL ENHANCEMENT ELECTIVE COURSES (SEC)

SEC-1: PHP Programming

CO-1	Write PHP scripts to handle HTML forms.
CO-2	Write regular expressions including modifiers, operators, and meta-characters
CO-3	Write PHP programs that use various PHP library functions, and that manipulate files and directories

CO-4	Create a dynamic web site employing server-side scripting.
-------------	--

SEC-2: Web Designing using HTML 5

CO-1	Define the principle and basics of Web page design
CO-2	Visualize the basic concept of HTML.
CO-3	Recognize the elements of HTML.
CO-4	Apply basic concept of CSS.
CO-5	Publish the web pages

SEC-3: Open-Source Software

CO-1	install open-source software.
CO-2	work on an open-source operating system like Linux, Gambas and Gimp.
CO-3	describe common open-source licenses and the impact of choosing a license.
CO-4	find open-source projects related to a given development problem.
CO-5	identify open-source alternatives available for a given proprietary software.
CO-6	participate in a public open-source project/ task.

SEC-4: Data Visualization using R

CO-1	Import/export small data sets in and out of R environment.
CO-2	Draw different types of plots to aid analysis of datasets.
CO-3	Identify a suitable technique for analysis data for the given objective.
CO-4	Interpret and use the results of analysis.