B.C.A

Program Outcome, Program Specific Outcome and Course Outcome

	B.C.A.
Programme Outcome	- Equip students with the latest technology, tools and applications in IT and to meet the ever-growing requirement of IT professionals - Develop computer Programmes using functional Programming and object-oriented Programming paradigms; apply techniques of software validation and reliability analysis to the development of computer Programmes - Provide sound academic base for an advanced career in Computer Applications, develop conceptual grounding in computer usage and introduce the organization of a computer and its principal components - Gain knowledge of algorithms and their role in computer science; identify fundamental structured Programming techniques; utilize important data structures and associated algorithms in the development of computer Programmes - Demonstrate the critical thinking and communication skills; create awareness of public health hazards and environmental policies; assure the dignity of the individual and the unity and integrity of the nation
Programme Specific Outcome	- Focuses on preparing students for roles pertaining to computer applications and IT industry such as Software Developer, System and Network Administrator, Web Designer, Faculty for Computer Science and Applications - Give ability to use innovative tools, techniques and skills necessary for developing multidisciplinary projects - Students would train proficiency in designing and using algorithms, data structures/management, and software design, concepts of Programming languages and computer organization & architecture for solving problems in real time situations - Give ability to use innovative tools, techniques and skills necessary for developing multidisciplinary projects.
Courses: Course Outcomes (Cos) are available in individual syllabus files which can be accessed by clicking on the respective Course Name. https://www.spuvvn.edu/students_corner/syllabi/bca/	

Course Objectives

B.C.A Semester:6	
Title of the Course	**Course Objectives**
Web Programming using PHP	• Understanding of the fundamental concepts related to PHP programming • Basic knowledge of working with advanced features of PHP and interaction with forms. • Understanding of database access in PHP

B.C.A Semester:6	
Title of the Course	**Course Objectives**
Communication and Computer Networks	• Ability to describe the significance and functioning of computer networks • Understanding of the fundamental concepts related to data communication. • Knowledge of various network protocols and standards • Knowledge of basic concepts related to wireless networking

B.C.A Semester:6	
Title of the Course	**Course Objectives**
Python Programming	• Ability to develop computer programs using the Python programming language • Knowledge of manipulating different Python data types. • Ability to develop object-oriented programs using Python. • Basic knowledge of exception handling, file handling and database access in Python.

B.C.A Semester:6	
Title of the Course	**Course Objectives**
Web Programming Using PHP Lab	• Gain the knowledge of PHP Programming. • Learn the fundamental syntax and structure of PHP. • Construct PHP scrpits to create dynamic web content.

B.C.A Semester:6	
Title of the Course	**Course Objectives**
Communication and Computer Networks	• Gain the knowledge of software project development activates. • Students will develop the knowledge of software project • development activates.

B.C.A Semester:6	
Title of the Course	**Course Objectives**
Current Trend in IT	• Knowledge about recent trends in Information Technology. • Understanding of the basic concepts related to data analytics, machine learning, search engine optimization, Internet of Things (IoT) and cloud computing

B.C.A Semester:6	
Title of the Course	**Course Objectives**
Systems Software	• Students will be able to understand the fundamental concepts of language processing, including program generation, program execution, and program interpretation. • Students will be proficient in assembly language programming, including the description of different types of assembly language statements. • Students will grasp the process of linking and loading in program development. • Students will gain knowledge of user interface tools and their role in system software.

B.C.A Semester:6	
Title of the Course	**Course Objectives**
Server-Side Web Programming	• Develop a solid foundation in ASP.NET, encompassing an in-depth understanding of its framework, controls, and page execution, along with the ability to create and manage ASP.NET applications. • Master effective use of ASP.NET Standard and Validation Controls, showcasing proficiency in implementing controls like Label, TextBox, CheckBox • Apply advanced concepts in state management, including View State, custom cookies, session state, and application state.

	• Demonstrate expertise in database processing and security by mastering ADO.NET architecture, data controls.

B.C.A Semester:6	
Title of the Course	**Course Objectives**
Business Information Systems	• Gain a comprehensive understanding of Information Systems and Information Technology, covering the role of information in corporate scenarios. • Explore Business Information Systems, including their evolution, types, components, and the management of Information Technology • Understand the interplay between Business Functions and Decision Support Systems • Explore Advanced Information Systems, delving into Group DSS, Global Positioning System (GPS), Geographical Information System (GIS), Business Portals, data visualization technologies, Knowledge Management, and Organizational Knowledge Bases

B.C.A Semester:6	
Title of the Course	**Course Objectives**
Information Security	• Gain foundational knowledge in network security, covering attacks, services, mechanisms, and models for network security. • Acquire understanding in cryptography, including conventional encryption, basic terms, and public-key cryptography applications. • Develop expertise in system security, addressing intruders, viruses, and related threats, along with antivirus approaches for detection and removal. • Master essentials of network security, including digital signatures and firewalls, with insights into design principles, characteristics, types, and configuration.

B.C.A Semester:6	
Title of the Course	**Course Objectives**
Information Security Practicals	• Learners will be able to design web applications using ASP.NET • Learners will be able to create database driven ASP.NET web applications