**BCA (Bachelor of Computer Applications)COURSE OUTCOMES**

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| **FYBCA** | **Course code** | **Course Name** | **Course Outcomes** |
| **SEM -I** | BCA101 | Foundation Course for Managers | The students will be able to: 1. Define fundamental accounting concepts, Conventions & terminologies. 2. Describe the importance, functions & objectives of books of entry, subsidiary books, bank reconciliation statement and Final accounts. 3. Prepare books of entry, subsidiary books, bank reconciliation statement and Final accounts using double entry book keeping. 4. To rectify the errors located in books of entry & subsidiary books. |
| BCA102 | Computer Fundament and Networking | On completion of the course, students are able to: 1. Understand the History of Computers. 2. Understand What Computer and Basic concepts of computer are. 3. Aware about various types of Computers, types of input and output devices. 4. Preparation of Algorithm and Flowchart of Program. . 5. Understand computer viruses and its types |
| BCA103 | Essential of Web Design I | On completion of the course, students are able to:1. Student will be able to create a navigation menu using an unordered list.2. Student will be able to create a link to another web page on the Internet.3. Student will be able to convert a list of words into a functional navigation menu.4.Student will be able to set up a same-page link that allows users to skip to the main content of a web page , add an email link to a web page |
| BCA104 | Programming In C | On completion of the course, students are able to: 1. Develop their programming skills. 2. Be familiar with programming environment with C Program structure.3. Declaration of variables and constants4. Understand operators, expressions and  Preprocessors. 5. Understand arrays, it's declaration and uses Functions, Pointers, Structures and Unions in C language. 6.Design, develop and test programs written in 'C' |
| BCA105 | Practical on Computer & Internet | On completion of the course, students are able to1.Learn computer networks, its types and basics of Internet2. Know the different page types on websites and it's navigations |
| **Sem-II** | BCA106 | Practical on Web Design-I | On completion of the course, students are able to1. Student learned the basic tags required for all HTML documents and be able to create a blank HTML page with all of the essential tags in place.2. Use some common tags for adding content to a web page including <h1>, <h2>, <h3>, <p>, and <div>3. Student will be able to apply the concepts of nesting and assigning attributes to tags.4. Student will be able to properly utilize headings and paragraphs to structure content on a web page will be able to explain the difference between an ordered and unordered list. |
| BCA107 | Practical on C Programming | On completion of the course, students are able to1.Understand the basic terminology used in  computer programming2. Write, compile and debug programs in C  Language.3. Use different data types in a computer program. 4. Design programs involving decision structures. Loops and functions.5. Explain the difference between call by value and  Call by reference. |
| BCA201 | Financial Accounting& Costing | Students are able to:1. Develop and understand the nature and purpose  of financial statements in relationship to decision making 2. Explain the concepts and procedures of financial  reporting, including income statement, statement  of retained earnings, balance sheet, and statement  of cash flows3.Develop the ability to use a basic accounting  system to create (record, classify, and⎯  summarize) the data needed to solve a variety of  business problems4.Define and apply management/cost accounting Concepts.  |
| BCA202 | Practical on Professional Communication | The student will:1.Mastering the art of a professional business  Presentation.2. Distinguishing different communication process  and its practical application3. More effective written communication |
| BCA203 | Essential of Web Design II | The student will:1. Use knowledge of HTML and CSS code and an HTML editor to create personal and/or business websites following current professional and/or industry standards.2.Use critical thinking skills to design and create websites.3.Use a stand-alone FTP program to upload files to a web server.4. Be prepared to pursue future courses in website development and design. |
|  | BCA204 | Programming In C++ | At the end of this course, the student will: 1.Understand advanced use of arrays in C++ programming2. Understand functions in C++ programming.3. Understand the concept of pointers in C++ programming.4. Understand structured variables classes and objects |
| BCA205 | Practical on Professional Communication | The student will:1.Mastering the art of a professional business presentation 2. Distinguishing different communication process and its practical application 3. More effective written communication |
| BCA206 | Practical on Web Design-II | The student will:1.Use knowledge of HTML and CSS code and an HTML editor to create personal and/or business websites following current professional and/or industry standards.2. Use critical thinking skills to design and create websites.3.Use a stand-alone FTP program to upload files to a web server.4.Be prepared to pursue future courses in website development and design.  |
| BCA207 | Practical on C++ Programming | At the end of this course, the student will: 1.Understand advanced use of arrays in C++ programming2. Understand functions in C++ programming.3. Understand the concept of pointers in C++ programming.4. Understand structured variables classes and objects |

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| **SYBCA** | **Course code** | **Course Name** | **Course Outcomes** |
| **SEM -III** | BCA31 | Mathematics and Statistics for Managers | Student will be able to:1. Reason mathematically about basic discrete structures such as numbers, sets, used in computer science. 2. Students would be able to understand the theories and principles of linear algebra 3. Students would be able apply their knowledge by solving mathematical problems4.An ability to apply knowledge of mathematics, science . 5. An ability to design and conduct experiments, as well as to analyze and interpret data.  |
| BCA32 | Computer Animation Using Flash | Students are able to:1.Create graphics using design elements2.Differentiate between vector and raster image3.Change attributes of images4. Identify the fundamental animation features and  functions5Produce key drawings for animations.6. Create 2D digital animation Develop vector graphics and 2D animations, making use of various tools and animation techniques provided by Flash 7.Develop animation using action script of flash8. Publish flash movie  |
| BCA33 | Career Management & Counseling | Students are able to:1.To find impacts of career guidance and counseling on student’s career development. 2.To find satisfaction of guided working persons regarding their profession and comparison• with unguided professionals. |
| BCA34 | Java Programming | On completion of the course, students are able to:1. Get knowledge JDK Environment.2. Explore polymorphism using Function and Operator Overloading, overriding.3. Understand the different aspects of hierarchy of classes and their extensibility.4. Understand the concepts of streams and files.5. Write programs for handling runtime errors using exception |
| **Sem-III** | BCA35 | Practical on Computer Animation | Students are able to:1.Student will learn basic concepts of 2D Animation, Storyboarding and create animated digital multimedia content for media using the tools and techniques as available in the Adobe Flash software.2.Produce key drawings for animations.3. Create 2D digital animation Develop vector graphics and 2D animations, making use of various tools and animation techniques provided by Flash 7.Develop animation using action script of flash4. Publish flash movie |
| BCA36 | Practical on Java | On completion of the course, students are able to:1:Understand programming language concepts, particularly Java and object-oriented concepts. 2: Write, debug, and document well-structured Java applications recursive algorithms3: Implement Java classes from specifications and effectively create and use objects from predefined class libraries 4: Understand the behavior of primitive data types, object references, and arrays 5: Apply decision and iteration control structures to implement algorithms  |
| BCA37 | Practical on Tally ERP | The students will be able to: 1. Students learn the basics of tally and importance of tally in today‟s computerized environment.
2. . Students learn how to create company accounts using tally and about function keys and shortcut keys.
3. To know about voucher entry, payment voucher, receipt voucher, credit and debit note.
4. Students learn how to create single and multiple ledgers, group creation, budget, inventory groups and other functions.
5. Students learn to prepare final accounts in tally along with cash flow statements and inventory analysis reports.
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| BCA41 | C# .Net | The students will be able to1.Create C#.NET programs that solve simple business problems 2.Validate user input 3.Construct a C#.NET class based on a UML class diagram 4Perform a test plan to evaluate his/her work 5.Adequately document C#.NET programs |
| **SEM -IV** | BCA42 | Stock And Commodity Market | The students will be able to1. Apply the methodology of trading in secondary market instruments like trade ring, online¬ trading 2.Analyze the risk factor associated with these¬ 3.Understand the methods of fixation of indices and functioning of regulatory agencies in¬ commodity market. |
| BCA43 | Data Structure | Student will be able to1.appropriate data structure as applied to specified problem definition. 2. Student will be able to handle operations like searching, insertion, deletion, traversing mechanism etc. on various data structures. 3. Students will be able to apply concepts learned in various domains like DBMS, compiler construction etc. 4. Students will be able to use linear and non-linear data structures like stacks, queues , linked list etc. |
| BCA44 | Cyber Crime and Security | 1. Students will be familiar with Cyber World, Internet and online resources, Security of information and Digital signature. 2. Examine the areas of cyber space, Regulation of cyber space – introducing cyber law, Scope of Cyber laws – e-commerce. 3. Illustrate online contracts; IPRs (copyright, trademarks and software patenting),e-governance and cyber crimes 4. Cyber law in India with special reference to Information Technology Act, 2000. 5. Students will be able to understand Cyber threats, 6. Data security strategies and Legal aspects . |
| BCA45 | Practical on Transaction related to Stock And Commodity | At the end of this unit the student will 1.understand the functions of primary markets, floating capital and recent trends in public issues 2.Learn the concepts of Mutual funds and apply their generalizations towards classification of mutual fund and its necessity. 3.View the merchant Banking in Indian scenario on both Indian pre issue and post issue management4.the legal framework pertaining to securities contract regulation act 1956.¬  |
|  | BCA46 | Practical on Data Structure using C++ | Student will be able to1.appropriate data structure as applied to specified problem definition. 2. Student will be able to handle operations like searching, insertion, deletion, traversing mechanism etc. on various data structures. 3. Students will be able to apply concepts learned in various domains like DBMS, compiler construction etc. 4. Students will be able to use linear and non-linear data structures like stacks, queues , linked list etc. |
| BCA47 | Practical on C# .Net | Student will be able to:1. Create C# programs and use .NET system.2. Use selection and repetition commands. ILO 3,2,73. Design C# programs.4. Create and use classes and inheritance. |

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| **TYBCA** | **Course code** | **Course Name** | **Course Outcomes** |
| **Sem-V** | BCA51 | Entrepreneurship Development | Student will be able to:1. Have the ability to discern distinct entrepreneurial traits 2. Know the parameters to assess opportunities and constraints for new business ideas 3. Understand the systematic process to select and screen a business idea 4. design strategies for successful implementation of ideas 5. write a business plan |
| BCA52 | Soft Skills Development | Students will be able to: 1.Understand their strengths and weaknesses, type of personality, work preferences, style of2.communications; Understand and apply knowledge of individual differences and personality type peculiarities in3.communication process and at interaction with other people at learning/working context; Define and analyze a writing or speaking situation, and develop a logical, clear response to that |
| BCA53 | Linux Operating System |  The student will be able to 1. To learn to develop software for Linux/UNIX systems. 2. Develop shell programs in vi/vim editor.3. Understanding the basic set of commands and utilities in Linux/UNIX systems. 4 To control the behavior of OS by writing Shell scripts.5 To understand the inner workings of UNIX-like operating systems |
| BCA54 | Internet Programming with ASP.NET | The student will be able to1. Successful students will able to design web applications using ASP.NET 2. Successful students will be able to use ASP.NET controls in web applications. 3. Successful students will be able to debug and deploy ASP.NET web applications 4. Successful students will be able to create database driven ASP.NET web applications and web services |
| BCA55 | Practical on Soft Skills Development | The student will be able to1.Apply the principles of effective communications in learning/working situations;2.Apply the principles and knowledge of effective time-, stress-, conflict management in3.learning/working situations; Develop or improve skills for working effectively in a team, including negotiating and setting4.goals, meeting deadlines and giving and receiving feedback;Use the self and peer evaluation to measure and improve the level of development of their soft |
| BCA56 | Practical on ASP.net & Linux O.S. | The student will be able to learn:ASP.net1. Create a Web form with server controls. 2. Separate page code from content by using code-behind pages, page controls, and components.3. Display dynamic data from a data source by using Microsoft ADO.NET and data binding. 4. Debug ASP.NET pages by using trace.Linux O.S1.Choose appropriate UNIX/Linux operating system commands to make effective use of the environment to solve problems 2.Write efficient, effective scripts with documentation 3.Research the Internet for information and resources utilizing new commands |
| BCA57 | Field Work | students are able to:1. Develop and understand field work concept2. students will learn in teams to complete a Group Field Work, Individual Field Work ,  |
| BCA61 | Introduction to ERP and SAP | students are able to:1.To comprehend the technical aspects of ERP systems; 2.To understand concepts of reengineering and\* how they relate to ERP system implementations; 3.To be able to map business processes using process mapping techniques & identify and describe typical\* functionality in an ERP system; 4.To understand the steps and activities in the\* ERP life cycle; 5.To obtain practical hands-on experience with\* one of the COTS ERP Software e.g. SAP, Oracle |
| BCA62 | System Analysis And Design | After this course, the student will be able to 1. Develop the software projects or prototypes by understanding the requirements. 2. Meet the project deadlines along with the number of resources and type of tasks to be carried out. |
| BCA63 | Server Side Scripting using PHP | Students are able to:1.Students should be able to create database using PHP and MYSQL2. Program for different applications using arrays, functions and strings.3. Aware about different web techniques used in PHP.4. Integrate PHP with MYSQL |
| BCA64 | Introduction to Information System Audit | Students are able to:1. Identifying business risks, strengths, and opportunities for improvement2.Evaluating employees’ awareness of, and compliance with, University policies and procedures and applicable laws and regulations3.Facilitating discussions with department employees to develop solutions to problems and promote operational efficiency, including the automation of procedures and the elimination of redundant or burdensome controls4.Identifying deviations from management's standards and expectations5.Assessing whether resources are used adequately and efficiently. |
| **SEM- VI** | BCA65 | Practical on PHP | On completion of the course, students are able to:1. Understand how PHP works with lexical structure of it.2. Program for different applications using arrays, functions and strings.3. Aware about different web techniques used in PHP.4. Integrate PHP with MYSQL. |
| BCA66 | Practical on CASE Tool with MS VISIO | Students are able to:1 Utilize Visio to plan, design, create, save, and print the following types of diagrams:Flow charts, organization charts, project schedule diagrams including timelines and Gantt charts, network and telecommunications diagrams, office space diagrams, building plans. 2.Apply the following Visio features to create diagrams and charts: Templates and stencils; shapes, lines, connectors, text blocks; backgrounds, borders, titles; page setup, preview, and printing options; custom shape properties. 3.Use the Request for Proposal (RFP) process by responding to an actual technical RFP in a case study approach using both technical and cost estimation concepts. |
| BCA67 | Project | Students are able to:1. Develop and understand project concept.2. Students will learn how to work in teams to complete a Group Project, Individual Project , Advanced Project. |