

KCES's Institute of Management and Research, Jalgaon
BCA (2017-18)

Course	Semester	Subject Code	CO's
BCA-I	SEM-I	BCA101 Foundation Course for Managers	CO1: To study the fundamental Accounting concepts, terms, jargons.
			CO2: learn the process of recording of financial transactions in the books of Accounts.
			CO3: To develop the foundation for higher studies in the field of accounting.
		BCA-102 Computer Fundament and Networking	CO1: Student will learn the basics of computer system, number system.
			CO2- Student will learn the different input, output devices and memory concepts.
			CO3-Student will learn to design flowchart & Algorithms.
			CO4-Student will learn the functions of operating system and their types.
			CO5-Student will learn the different transmission media's in networking and Internet applications.
			CO6-Student will learn the Switching techniques as well as different topologies.
		BCA-103 Essential of Web Design	CO1: Students will be able to use the HTML programming language and apply fundamental principles of web design theory and practice
			CO2: Students will be able to understand the Internet architecture, the fundamental principles of Internet communication.
			CO3: Students will develop skills in analysing the usability of a web site. Introduce basics concept of CSS.
	CO4: Students will be able to use a variety of strategies and tools to create websites and will understand the new features of HTML 5 and their uses .		
	CO5: Build structured HTML pages with text, links, images, tables and forms Use style sheets (CSS) for colours, background, formatting text, page layout and simple transition, transformation.		
	BCA-104 Programming In C	CO1: Apply C features to program design and implementation.	
		CO2: Use C to demonstrate practical experience in developing solutions.	
		CO3: Students shuld be able to understand programming logic, use of programming instructions, syntax and program structure.	
		CO4: Analyze a problem description and build software using good coding practices and techniques.	
		CO5: Implement an achievable practical application and analyze issues related to techniques in the C programming language.	
	SEM-II	BCA201 Financial Accounting	CO1: Acquire conceptual knowledge of basics of accounting
CO2: Describe the role of accounting information and its limitations			
CO3: Identify events that need to be recorded in the accounting records			
BCA-202 Professional Communication		CO1: Identify Common Errors and Rectify Them	
		CO2: To Develop Coherence, Cohesion and Competence in Oral Discourse through Intelligible Pronunciation.	
		CO3: Develop and Expand Writing Skills through Controlled and Guided Activities	
		CO1: develop mastery of HTML and CSS	

		BCA-203 Essential of Web Design II	CO2: Use the HTML Document Object Model (DOM) to manipulate and organize a web page. CO3: Develop basic programming skills using Javascript
		BCA-204 Programming In C++	CO1: To learn the fundamental programming concepts and methodologies which are essential to building good C/C++ programs. CO2: To code, document, test, and implement a well-structured, robust computer program using the C/C++ programming language. CO3: Apply the concepts of object-oriented programming
BCA-II	SEM-III	BCA-301 Mathematics and Statistics for Managers	CO1: Understanding of all terms related to mathematical logic.
			CO2: Ability to know the types of sets, method of representation, operations and laws related to it.
			CO3: Ability to solve problem related to matrices.
			CO4: Understand the basic concepts of Statistics.
			CO5: Analyse statistical data using measures of central tendency.
			CO6: Performing mathematical and statistical function using MS-Excel.
		BCA-302 Management Information System	CO1: To impart the knowledge of Management and Information Ssystem among students.
			CO2: To learn the process of system design
			CO3: To learn the fundamental concepts used in Information Technology
		BCA-303 Java Programming	CO1: On the basis of the understanding of object oriented programming concepts the student at this stage of fourth semester should acquire knowledge of developing simple stand alone applications in Core Java.
			CO2 : At the end of the semester student should learn to develop GUI based programming and event handling.
		BCA-304 Linux Operating System	CO1: To make students understand the features of Linux operating system.
	CO2: Understand the basic set of commands and editors in Linux operating system.		
	CO3: Demonstrate the role and responsibilities of a Linux system administrator.		
	CO4: Discuss shell programming and C Programming in Linux environment.		
	BCA-307 Practical on Tally ERP	CO1: Gain an Overview on how Tally Software is used to Maintain Books of Accounts.	
		CO2: To make students understand the various Features available in Tally Software.	
		CO3: Gain Some Insight in Effectively Operating Tally ERP 9 Software.	
		CO4: Learn how to create Ledger and make Voucher entries in Tally Software.	
		CO5: Become aware about the importance of Tally Software in Business for handling error free transactions.	
		CO5: To able students to learn how Tally Software Is Used in Calculating Tax, GST etc.	
	BCA-401 Introduction to Information System Audit	CO1: Illustrate the fundamental concepts of information systems auditing and IT application in auditing	
		CO2: Identify the security controls in organization	
		CO1- Student will learn Database system and its advantages over File Processing System	
		CO2- Students will learn different data models used in DBMS.	

SEM-IV	BCA-402 RDBMS	CO3- Students shall be able to apply different integrity constraints on tables.
		CO4- Student will learn the concept of Normalization and type of Normal forms.
		CO5-Students shall be able to work with tables by applying various functions and constraints.
		CO6- Students will be learn to perform join operation on multiple tables.
	BCA-403 C#.NET	CO1: Apply C# features to program design and implementation.
		CO2: Use C# to demonstrate practical experience in developing solutions.
		CO3: Students shuld be able to understand programming logic, use of programming instructions, syntax and program structure.
		CO4: Analyze a problem description and build software using good coding practices and techniques.
		CO5: Implement an achievable practical application and analyze issues related to techniques in the C#.NET.
	BCA-404 Data Structure	CO1: To learn efficient data storage and operating mechanisms.
		CO2: To learn and understand various linear data structures.
		CO3: To learn various representation techniques of real world data.
CO4: To develop applications to implement data structure.		
CO5: To learn hierarchical and nonlinear data storage and operating mechanisms.		
SEM-V	BCA-501 Entrepreneurship Development	CO1: To understand the concept of Entrepreneur,
		CO2: To understand the Role of Government for Entrepreneurship development,
		CO3: To analyze the problems of women entrepreneur,
		CO4: Get in-depth knowledge about the process of startup of new venture or Small Business Unit and
		CO5: Get the Knowledge about Business opportunities available with Government schemes in International Market.
	BCA-502 Cyber Security	CO1: Student will learn basics of information system and information security
		CO2: Student will learn different security threats and various ways to control it.
		CO3: Student will learn Cryptographic system to secure data
		CO4: Student will learn the different mechanism to secure data in network.
		CO5: Student will learn different types of cybercrime.
		CO6: Student will learn the cyber laws to take action against cyber criminals.
	BCA-503 BCA 503 ASP.NET Technology	CO1: Understand the Microsoft .NET Framework and ASP.NET page structure.
		CO2: Create a Web form with server controls.
		CO3: Separate page code from content by using code-behind pages, page controls, and components.
		CO4: Display dynamic data from a data source by using Microsoft ADO.NET and data binding.
	BCA-504 Software Engineering	CO1: Gather data to analyse and specify the requirements of a system.
CO2: Design system components and environments.		
CO3: Build general and detailed models that assist programmers in implementing a system.		

BCA-III			CO4: Design a database for storing data and a user interface for data input and output, as well as controls to protect the system and its data.
		BCA 601 E-Commerce & M-Commerce	CO1: This course provides an introduction to information systems for business and management. CO2: It is designed to familiarize students with organizational and managerial foundations of systems, the technical foundation for understanding information systems
		BCA 602 Cloud Computing	CO1: Student will learn fundamental concept of cloud computing. CO2: Student will be able to understand core components & corresponding business operation of CDC. CO3: Student will learn virtualization of core technologies to form a virtualized data centre. CO4: Student will learn essential infrastructure component required in cloud computing. CO5: Student will learn different security concern & migration in cloud environment
	SEM VI	BCA 603 Android Application Development	CO1: Compare android with other smartphone OS and desktop OS; Able to understand software stack of android OS. CO2: Understand Activity lifecycle, UI management, use Intent, Broadcast receivers and Internet services. CO3: Effectively use SQLite Database and content providers, multimedia, camera and Location based services in Android Application.
		BCA 604 Server Side Scripting using PHP	CO1: Student will learn to install PHP software & executing simple PHP programmes in that environment. CO2: Student will learn to use basic structure & concepts for receiving & submitting data in web pages. CO3: Student will learn array for storing & processing data of different types of data. CO4: Student will learn to used different built in & user defined functions. CO5: Student will learn to manage databases using my sqldb. CO6: Student will learn to develop applications with advance PHP (web based concepts such as email & CMS).