



"Education for Knowledge, Science, and Culture"

- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur
(Autonomous)



Department of BCA

B.C.A. Part I (CC & AECC)



(स्वायत्त) कोल्हापूर

SYLLABUS

Introduced from June 2021

Dissemination of Education for Knowledge, Science and Refined Manners
Shikshanmaharshi Dr. Bapuji Salunkhe
Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur (Autonomous)
Department of BCA

BCA-I Sem-I
(With effect from July-2021)

Fundamental of Computers

Semester	I	Total credit	4
Course code	Core Course – CCBCA 1391 A	Credit pattern	L-60, T -100 Marks,P-00
Course title	Fundamental of Computers		

Course objectives	
1	To know the basic of Computer
2	To Understand the Basics of Operating systems
3	To understand the basic concepts of Linux operating system.

Module	Content	Teaching Hrs.
I	Introduction to computer : Computer Characteristics, Concept of Hardware, Software , Evolution of computer and Generations, Types of computer – Analog & Digital computers, Hybrid computers, General purpose & Special Purpose Computer, Limitations of Computer, Applications of Computer in Various fields. Structure and Working of Computer: Functional Block diagram of computer. CPU, ALU, Memory Unit, Bus structure of Digital Computer - Address, data and control bus.	15
II	Input /Output Devices : Input device – Keyboard, Mouse, Scanner, MICR, OMR. Output devices – VDU, Printers – Dot Matrix, Daisy-wheel, Inkjet, Laser, Line printers and Plotters. Computer Memory : Memory Concept , Memory cell, memory organization, Semiconductor memory- RAM, ROM, PROM,EPRM, Secondary Storage devices - Magnetic tape, Magnetic Disk (floppy disk & Hard disk.), Compact Disk.	15
III	Computer Language and Software : Number System - Decimal, Binary, Octal & Hexadecimal, Conversion from One base to another base. Computer Codes - : BCD, EBCDIC, ASCII, Machine Language, Assembly language, High Level language, Assembler, Compiler, Interpreter. Characteristics of good Language. Software - System and application software	15
IV	Operating System: Operating system, Evolution of operating system. Function of operating system. Types of operating systems. Detailed study of Windows Operating System. Introduction and Features of LINUX OS.	15



Learning Recourses		
1	Reference Books	1) Computer Fundamentals by P.K. Sinha & Priti Sinha, 3rd edition, BPB pub. 2) Computers Today by S. Basandra Galgotia Pub. 3) Microsoft Office 2000 by Vipra Computers, Vipra Printers Pvt. Ltd. 4) Advanced Microsoft Office 2000 by Meredith Flynn, Nita Rutkosky, BPB Pub 5) Using Microsoft office 2007 by Ed Bott ,Woody Leonhard , Pearson publication 6) Using Microsoft office 2010 by , Pearson publication

Course Outcomes	
1	Understand basic concepts of computer.
2	Describe peripheral devices and number systems.
3	Understand operating environment.
4	Demonstrate the use of Disk operating system.



BCA-I Sem-I
(With effect from July-2021)
Programming in C Paper –I

Semester	I	Total credit	4
Course code	Core Course – CCBCA 1392 A	Credit pattern	L-60, T -100,P-00
Course title	Programming in C Paper –I		

Course objectives	
1	To understand the basic of problem solving techniques.
2	To understand the basic terms used in C programming.
3	To know program write skills

Module	Content	Teaching Hrs.
I	Problem Solving Methods: Problem definition, Steps in Problem Solving (Define Problem, Analyze Problem, Explore Solution) . ALGORITHM: Definition, notations, characteristics of algorithm, examples on algorithm. FLOWCHARTS: Definition, features of flowcharts, symbols, examples, coding, running, debugging-types of errors (syntax, logical, runtime errors.)	15
II	Introduction to c: History, features of c language, Character set, Identifiers: variables, constants, symbolic constants, keywords. Data types, Operators: Arithmetic, relational, logical, assignment, bitwise, increment/decrement and special operators, Concept of operator Precedence & Associativity . Comments-types of comments, Use of Comments, Header Files(unistd.h,stdio.h,string.h,math.h) . Structure of C Program, Input and Output Functions.	15
III	Control Structures: Conditional statements: if, If-else nested if-else, switch statement. Loops: while, for, do...While loop, Unconditional statements: Break, continue, exit, goto statements.	15
IV	Arrays and Strings: Arrays: Meaning and definition, Declaration, Initialization and types of arrays (single and multidimensional arrays). Strings: Meaning and definition, Declaration, Initialization String functions strlen(), strcmp(), strcpy(), strncpy(), strcat(), strncat(), strstr(), strtok(). Handling of character array.	15

Learning Recourses		
I	Reference Books	<ol style="list-style-type: none"> 1. The C programming Language by Ritchie and Kernighan. 2. Let us C by Y.C. Kanetkar 3. Introduction to programming using C by Prof.D.R.Patil, Pawar, Shinde and Lad(Dreamtech). 4. Programming in C by D Ravichandran. 5. C Programming by Venugopal. 6. Programming in C – E. Balagurusamy 7. Pointers in C – Yashwant Kanetkar 10. How to solve it by Computer – R. G. Dromy 11. Introduction to algorithms – Cormen, Leiserson, Rivest, Stein



Course Outcomes	
1	Able to implement the algorithms and draw flowcharts for solving Mathematical problem.
2	Ability to design and develop Computer programs, analyze, and interprets the concept of pointers, declarations, initialization, operations on pointers and their usage.
3	Able to define data types and use them in simple data processing applications also he/she must be able to use the concept of array of structures and file Handling.
4	Develop confidence for self-education.

BCA-I Sem-I
(With effect from July-2021)
Principles of Management

Semester	I	Total credit	4
Course code	Core Course – CCBCA 1393 A	Credit pattern	L-60, T -100,P-00
Course title	Principles of Management		

Course objectives	
1	To the students gain understanding of the function and responsibility of managers.
2	To provide them tools and techniques to be used in the performance of the managerial job.

Module	Content	Teaching Hrs.
I	Introduction to Management Definition of Management, nature and importance of management, Functions- Planning, Organizing, Staffing, Directing, Controlling. Levels of management, Management as a Profession, Role of Manager in Organization, Contribution of F.W. Taylor, Henry Fayol, Max Weber Elton Mayo and Peter Drucker to management theory.	15
II	Planning & Organizing Meaning, Nature, Importance limitation of planning, Types of plans, steps involved in planning. Organizing :- Meaning, definition, Importance, principles of organizing. Formal & Informal organization, Virtual organization.	15
III	Directing Motivation:- Meaning, definition & importance of motivation, Theories of motivation –Need Theory , Two factor theory & Theory X & Y. Leading:- Meaning , Definition, Important aspects of leading, functions, supervision, leadership, challenges of Leadership, Function of Leader, Leadership style, Team leadership.	15
IV	Controlling and Recent Trends in Management Controlling :- Meaning, Importance, Steps in Control Process, Types of control-	15
	Feed forward control, Concurrent control & feedback control, Techniques of control Recent Trends in Management: Introduction to Management Of Change, Disaster Management, Total Quality Management., Stress Management, Social Responsibility of Management.	



Learning Recourses		
1	Reference Books	1. Essential of Management by Kncotz & O' Donnel. 2. Principles & practice of Management by Gecege Terry. 3. Principles & Practice of Management by Tripathis C.reddy 4. Management a global Practice-Heinz Welthrich & Harold Koontz. 5. Management –L.M.Prasad 6. Fundamentals of Management – Stepham P. Robbins 7. Principles of Management- P. Subba Rao

Course Outcomes

1	Understand the influence of historical forces on current practice of management.
2	Understand frameworks in the four functions of management.
3	Understand leadership styles to anticipate the consequences of each leadership style
4	Be able to identify and apply appropriate management techniques for organizations; and



BCA-I Sem-I
(With effect from July-2021)
Financial Accounting with tally

Semester	I	Total credit	4
Course code	Core Course – CCBCA 1394 A	Credit pattern	L-60, T -100,P-00
Course title	Financial Accounting with tally		

Course objectives	
1	Ability to prepare accounting statements and reports in accordance with accounting concepts and conventions.
2	To find out arithmetic accuracy of balance sheet.
3	To find out arithmetic accuracy of trial balance.

Module	Content	Teaching Hrs.
I	Book-Keeping & Accounting: Meaning, Internal & External uses of Accounting information, Accounting Concepts & Conventions, Accounting Procedure:- Transactions, Types of accounts, Rules of accounting, Source Documents:- Cash voucher, Petty Cash voucher, cash Memo, Receipt, Debit Note, Credit Note, Paying slips, withdrawals, Cheque.	15
II	Bank Reconciliation statement: Meaning, Needs and Importance, Reasons for difference in bank balance as per cash book & balance as per passbook, preparation of bank reconciliation statement. Types of errors and rectification of errors	15
III	Journal & Ledger: Journal, Subsidiary Books, Cash Book, Ledger Posting.	15
IV	Final Accounts: Preparation of Trial balance, Preparation of final Accounts of Sole Traders & Partnership firms.	15

Learning Recourses		
I	Reference Books	1. Advance Accountancy:- M.C. Shukla & T.S. Grewal 2. Advance Accountancy:- S.C. Jain & K.L. Narang 3. Advance Accountancy:- S.M. Shukla 4. Advance Accountancy:- Maheshwari 5. Advance Accountancy:- R.L.Gupta

Course Outcomes	
1	To helps students to work with well known accounting software i.e. Tally
2	To create company, enter accounting voucher entries including advance voucher entries, do reconcile bank statement
3	After the successful completion of this course the students are ready with required skill for employability in the job market.
4	Understand financial statements.



BCA-I Sem-I
(With effect from July-2021)
Business Communications

Semester	I	Total credit	4
Course code	Core Course – AECCBCA 1395 A	Credit pattern	L-60, T -100,P-00
Course title	Business Communications		

Module	Content	Teaching Hrs.
I	Introduction to Communication: Basic types of communication- Reading, Writing, Listening, Speaking; Purpose of Communication; Process of Communication; Importance of Communication in Business; Barriers to Communication; Measures to Overcome the Barriers to Communication. Communication Network: Scope and Types of 15 1 Communication Network; Formal and Informal Communication Network; Upward Communication; Downward Communication; Horizontal Communication; Diagonal Communication; Grapevine	15
II	Writing Memos, Circulars and Notices: Memo- Characteristics of a memo, Language and writing style of a memo- Format of a Memo; Circulars- Guidelines for writing a circular- Languages and writing style of a circular- Format of a circular; Notices- Purpose- Format- Important points to remember while writing a notice Writing Business Letter: Importance of Business Letters; Difference between Personal and Business Letters; Structure and Format of Business Letters; Types of Business Letters.	15
III	Employment Communication – Resume: Contents of Good Resume; Guidelines for Writing Resume; Different Types of Resumes; Reason for a Cover Letter to Apply for a Job-Format of Cover Letter; Different Types of Cover Letters Employment Communication – Job Interview: Importance and Factors Involving Job Interview; Characteristics of Job Interview; Job Interview Process; Job Interview Techniques- Manners and etiquettes to be maintained during an interview; Sample Questions Commonly asked During Interview.	15
IV	Introduction to office Management 1. Introduction of Modern Office, Lay Out and Management, Elements of the Office Management, Environment of an Office, 2. Planning and Controlling of Office Functions- Planning of Office System and Routines, Work Flow, Need of Office System and Routine, Difference between office system and routine. 3. Personnel Management- Definition and Importance, Selection of the Employees, Training, Remuneration, Supervisions & development of proper working environment, Employee Welfare. 4. Time Management- Definition, Importance of Time, setting priorities. 5. Stress Management- Definition, Causes of Stress, Positive and Negative stress, overcome of stress in the Office. 6. Conflict Management- Introduction, Causes and Cure.	15



Learning Recourses		
1	Reference Books	1. Office Management by Dr.R.K.Chopra, PriyankaGauri, Himalaya Publishing House 2. Office Management byJ.C.Denyar. 3. Business Communication by N.S.Pradhan, Himalaya PublishingHouse 4. Business Communication by Smt.LeelawatiPatil, KumarPrakashan. 5. Textbook of Office Management by Leffingwell and Robinson.

Course Outcomes	
1	Communicate in English in written as well as oral mode .
2	Make presentations in English.
3	Do effective business correspondence.
4	Learner will be conversant with business or official communication terms and writing skills.

BCA-I Sem-I
(With effect from July-2021)
Lab Course Based on Fundamental of computers

No.	Content
DOS OS 1)	1) Introduction ,installation and working of DOS
	2) Internal DOS Commands
	3) External DOS commands
WI0DOWS OS	1. Creating folder, cut, copy, paste, managing file and folder in windows.
	2. Arrange icons, set display properties.
	3. Adding and removing software and hardware.
	4. Setting date and time, screen saver and appearance.
	5. Using windows accessories.(Notepad, WordPad, Paint).
	6. Settings of all control panel items
	7. Search file.



Course Outcomes	
1	Understand basic concepts of computer.
2	Describe peripheral devices and number systems.
3	Understand operating environment
4	Demonstrate the use of Linux Operating system command



BCA-I Sem-I
(With effect from July-2021)

Lab Course II Based on Programming in C

Semester	I	Total credit	2
Course code	CCLBCA-1397A	Credit pattern	L-30, P-50
Course title	Lab Course II Based on Programming in C		

	Content
1	Simple programs using printf(), scanf().
2	Programs based on if statements
3	Programs using switch statement
4	Programs based on while loops
5	Programs based on for loops
6	Programs based on do loops

7	Simple program using array to find frequency of each value within an array.
8	Programs on matrices like addition, subtraction and multiplication and transpose
9	Programs on sorting and searching methods
10	Programs based on string handling

Course Outcomes

1	Read, understand and trace the execution of programs written in C language.
2	Write the C code for a given algorithm.
3	Implement Programs with pointers and arrays, perform pointer arithmetic, and use the pre-processor.
4	Write programs that perform operations using derived data types.



BCA-I Sem-I
(With effect from July-2021)
Basics Web Technology

Course Code: CCBCA-1398B	Course Name: Basics Web Technology	Credits: 04	Marks : 100
Course Objective	To provide knowledge of Web designing techniques.		
Course Outcomes	After completion of this course students will be able to - 1) Understand the basic working of Internet and its main services. 2) Create web pages using HTML. 3) Applying CSS styles in web page development. 4) Utilize theoretical skills and practical experience of web design.		
Module	Descriptions		Teaching Hrs.
I	Introduction: Introduction to internet and its applications, E-mail, telnet, FTP, E-commerce, video conferencing, e-business. Internet service providers, domain name server, internet address, World Wide Web , uniform resource locator (URL), browsers – internet explorer, netscape navigator etc. search engine, web saver – apache, proxy server, HTTP protocols.		15
II	HTML-5 What is HTML-5 , Basic Tags, Structure, Layout, Web Development Process Overview of HTML Tags, Formatting Tags, Headings(H1-H6), Tags and Attributes, Paragraph Tag, FONT Tag, List Tags, Ordered and Unordered Tags, Hyperlink, <HR> <Marquee> Tags, Image Tag with all attributes, Image and Image map, <TABLE>.. </TABLE> tag with all attributes .<FORM> tag, Examples and case studies based on all tags.		15
III	Basic of CSS Introduction to CSS, CSS Basics, Syntax / Rule of CSS , Selectors, properties and values, Applying CSS to HTML tags, Types : Internal, Inline, External CSS, CSS Colors, Background and color, CSS Box Model, CSS Margins, Padding, Borders CSS Text and Font Properties		15
IV	CSS – Page Layout Classes IDs DIVs Spans, The Box, Styling Page Divisions, Paragraph Formatting, Nav Bars : Adding a Navigation Bar, Customizing a Navigation Bar. Case Study: Select any topic of your interest and Design Project using above technologies which suit for Desktop and Laptop computer screen only.		15



Learning Recourses		
1	Reference Books	Internet 6-in-1 by Kraynak and Habraken, Prentice Hall of India Pvt. Ltd., New Delhi Internet for Everyone by Alexis Leon and Mathews Leon; Vikas Publishing House Pvt. Ltd., New Delhi. Josh Hill, HTML5 and CSS3 in Simple Steps, 2011, Pearson. Joel Sklar, Principle of Web Design, 2014, 5th Edition, Cengage Learning. Alexis Goldstein, Louis Lazaris, Estelle Way, HTML5 and CSS3 for the Real World, 2015, SitePoint

Course Outcomes	
1	Read, understand and trace the execution of programs written in C language.
2	Write the C code for a given algorithm.
3	Implement Programs with pointers and arrays, perform pointer arithmetic, and use the pre-processor.
4	Write programs that perform operations using derived data types.



BCA-I Sem-II

(With effect from July-2021)

Programming in C Paper –II

Semester	II	Total credit	4
Course code	Core Course –CCBCA 1399 B	Credit pattern	L-60, T -100,P-00
Course title	Programming in C Paper –II		

Module	Content	Teaching Hrs.
I	User defined functions: Need, multi functioned program, form of a c function, return value and their type, calling a function, category of a functions, Actual and Formal arguments , functions with array, Storage classes: auto, external, static and register. Command line argument. Preprocessors-Introduction, types of Preprocessor.	15
II	Pointers: Understanding pointers, accessing address of variable, declaration and initializing pointers, pointer expression, pointer to array and functions, function call by value and by reference. Dynamic memory allocation- malloc(),calloc(),realloc().	15
III	Structures and Unions: Defining and processing a structure, array of structure, array within structure, structure within structure, Defining and processing a Unions. Difference between structure and union.	15
IV	File Handling: Defining and opening a file, File opening mode- open, modify,write, Closing a file, Functions:fopen(), fclose(), fscanf(), Input/Output Operations on file: getc(), putc(), getw(), putw(), sprintf(), fscanf(), ftell(),fseek(), rewind().	15

Learning Recourses	
Reference Books	<ol style="list-style-type: none">1. The C programming Language by Ritchie and Kernighan.2. Let us C by Y.C. Kanetkar3. Introduction to programming using C by Prof.D.R.Patil, Pawar, Shinde and Lad(Dreamtech).4. Programming in C by D Ravichandran.5. C Programming by Venugopal.6. Programming in ANSIC – E. Balagurusamy7. Programming in C – Schuam outline Series



Course Outcomes	
1	After the successful completion of the course the student understand the techniques used in programming and implement it.
2	To know program writing skills using advance C concepts.
3	To understand different techniques used in C program.
4	To implement the concepts of file handling



BCA-I Sem-II

(With effect from July-2021)

Operating System

Course Code: CCBCA-1400B	Course Name: Operating System	Credits: 04	Marks : 100
Course Objectives	1. To make the students familiar with the basics of operating system. 2. To explain the structure and functions of an operating system		
Module	Descriptions	Teaching Hrs.	
I	Introduction of Operating System- Definition, Objectives, Functions, Generations of OS, Types of OS (Batch, Multiprogramming, Time Sharing, Real time, Distributed, Personal, Mobile). OS Structure (Monolithic, Layered, Microkernel, Exokernel, Client-Server).	15	
II	Process Management – Process Management- Introduction to Processes, Process Model, Process creation, Process termination, Process hierarchy, Process states.	15	
III	Memory Management- Memory Management- Introduction to memory management, Requirements (Relocation, Protection, Sharing, Logical organization, Physical organization). Memory partitioning- Fixed partitioning, Dynamic partitioning, Paging, Segmentation. Concept of Virtual memory.	15	
IV	File System- Files & File system, File structure, File types, File access, File attributes, Basic file operations. Directories- Single-level & Hierarchical directory systems, Path names & Directory operations. Differentiate between Windows and Linux OS.	15	

Learning Recourses		
1	Reference Books	Modern Operating Systems, Andrew S Tanenbaum, 3 rd Edition, PHI, 2010. Operating Systems, Achyut S Godbole, 2 nd Edition, McGraw Hill Publications. Operating Systems a Concept Based Approach by Dhananjay Dhamdhare Operating System Principles by Silberschatz , Galvin , Gagne. Operating System Concepts by Abraham Silberschatz, Peter B. Galvin, Greg Gagne



Course Outcomes

1	After completion of this course students will be able to -
2	1. Possess knowledge of Operating Systems and their types.
3	2. Apply the concept of a process and scheduling algorithms.
4	3. Realize the concept of deadlock and different ways to handle it.



BCA-I Sem-II

(With effect from July-2021)

Database Management System

Course Code: CCBCA-1401B	Course Name: Database Management System	Credits: 04	Marks : 100
Course Objectives	After completion of this course students will be able to – 1. To know the fundamentals of Data Management System. 2. To understand how to use data base in day to day applications.		
Module	Descriptions	Teaching Hrs.	
I	Introduction of Database 1.1 Introduction 1.2 Definition of DBMS 1.3 file processing system Vs DBMS 1.3.1 Limitation of file processing system 1.3.2 Comparison of File processing system and DBMS 1.4 Advantages and Disadvantages of DBMS 1.5 Users of DBMS 1.5.1 Database Designers 1.5.2 Application programmer 1.5.3 Sophisticated Users 1.5.4 End Users 1.6 Capabilities of good DBMS 1.7 Types of Database System: 1.7.1 Centralized database system 1.7.2 client-server system 1.7.3 Distributed database system.	15	
II	Organization of Database System 2.1 Introduction 2.2. Logical and Physical Files 2.2.1 Logical and Physical Files Definitions 2.2.2 File Structure 2.3 Basic File Operations 2.3.1 Opening Files 2.3.2 Closing Files 2.3.3 Reading and Writing 2.3.4 Seeking 2.4 File Organization 2.4.1 Field and Record structure in file 2.4.2 Record Types 2.5 Types of file organization 2.5.1 Files of Unordered Records (Heap Files) 2.5.2 File of Ordered Records (Sorted Files) 2.5.3 Hash Files 2.5.4 Indexed file	15	



III	Data Models 3.1 Introduction 3.2 Data Models 3.2.1 Object Based Logical Model 3.2.2 Record Base Logical Model a. Relational Model b. Network Model c. Hierarchical Model 3.3 Entity Relationship Model 3.3.1 Entity Set 3.3.2 Attribute 3.3.3 Relationship Set 3.4 E-R Model terms Introduction a. Relation b. Tuple c. Attribute d. Cardinality e. Degree f. Domain 3.5 Keys- 3.5.1 Super Key, 3.5.2 Candidate Key, 3.5.3 Primary Key 3.5.4 Foreign Key 3.6. Relational Database Design 3.6.1 Introduction 3.6.2 Normalization 3.6.3 Normal Form 3.6.1. 1 NF, 3.6.2 2 NF, 3.6.3 3 NF	15
IV	Relational algebra 4.1 Introduction 4.2 Operations- a. Select, b. Project, c. Union, d. Difference, e. Intersection, f. Cartesian Product, g. Natural Join 4.3. SQL (Structured Query Language) 4.3.1 Introduction 4.3.2 History of SQL 4.3.3 Basic Structure 4.3.4 DDL Commands 4.3.5 DML Commands 4.3.6 Simple Queries 4.3.7 Nested Queries 4.3.8 Aggregate Functions 4.3.9 Clauses	15



Learning Recourses		
1	Reference Books	1) Database System Concepts By Henry korth and A. Silberschatz 2) An Introduction to Database System by Bipin Desai 3) File Structure by Michael J. Folk, Greg, Riccardi 4) Teach Yourself SQL in 14 days by Jeff Parkins and Bryan Morgan 5) Database Management System by Raghu Ramakrishnan 6) An Introduction to Database System by Bipin Desai

Course Outcomes	
1	To Know the Fundamentals of Databases.
2	To understand how to use Databases in day to day Applications.
3	Design ER Models to represent simple database application scenarios
4	Improve the database design by normalization.



BCA-I Sem-II

(With effect from July-2021)

Human Resource Management

Course Code: CCBCA-1406C	Course Name: Human Resource Management	Credits: 04	Marks : 100
Course Objectives	After completion of this course students will be able to – 1. To provide knowledge of concepts of human resource management within the organization 2. To know the proper recruitment and selection procedure in organization		
Course Outcomes	After completion of this course students will be able to – 1. Students should understand the concept of Human Resource Management within the organization. 2. To know the proper Recruitment and Selection Procedure in organization.		
Module	Descriptions	Teaching Hrs.	
I	Introduction to HRM : Introduction , Concept, Functions of HRM , Organization of HR, Role HRM , Qualities of HR Manager, challenges and recent trends of HRM in I.T.	15	
II	Human resource Planning & Development : Meaning and need of HRP, Objectives of HRP, Process of HRP in I.T. Industry, Factors affecting HRP , Job Analysis , Job Description, Recruitment and Selection procedures in I.T. Industry. Training and Development methods followed in I.T. Industry.	15	
III	Employee Separation Introduction, Concept and Objectives of Employee Separation, Employee Separation practices in I.T. industry, Voluntary Retirement Schemes, Resignation-Discharge-Dismissal-Suspension, Exit interview.	15	
IV	Compensation Management: Introduction, Concept and Objectives, Components of remuneration, factors effecting wage and salary levels, variable compensation, incentive schemes.	15	
	Books Recommended: 1. Human resource management by Ian Breadsevice. 2. Human resource management by S. S. Khankar. 3. Human resource management by Biswajeet Patanayak. 4. Human Resource Management 6E, By Aswathappa 5. Human Resource Management By Gary Dessler 6. The HR Scorecard By Brian Becker, Mark Huselid, Dave Ulrich		



Learning Recourses		
1	Reference Books	<ol style="list-style-type: none"> 1. Human resource management by Ian Breadsevace. 2. Human resource management by S. S. Khankar. 3. Human resource management by Biswajeet Patanayak. 4. Human Resource Management 6E, By Aswathappa 5. Human Resource Management By Gary Dessler 6. The HR Scorecard By Brian Becker, Mark Huselid, Dave Ulrich

Course Outcomes	
1	Students should understand the concept of Human Resource Management within the organization.
2	To know the proper Recruitment and Selection Procedure in organization.
3	On completion of this course students should be able to understand the nature of Human Resources and its significance to the organization.
4	To know how to strategically plan for human resources to meet the organizational needs.



BCA-I Sem-II

(With effect from July-2021)

Lab Course III (Based on DBMS and Web Technology)

Credits:2	List of Practical's of DBMS
Sr. No.	Description
1	Create tables for the information given below by giving appropriate integrity constraints as specified.
2	Create table for the information given below by choosing appropriate data types and integrity constraints as specified.
3	1. Create the following tables (primary keys are underlined.). Property(<u>pno</u> ,description, area) Owner(<u>oname</u> ,address,phone) An owner can have one or more properties, but a property belongs to exactly one owner . Create the relations accordingly, so that the relationship is handled properly and the relations are in normalized form (3NF). a) Insert two records into owner table. b) insert 2 property records for each owner . c) Update phone no of "Mr. Nene" to 9890278008 d) Delete all properties from "pune" owned by " Mr. Joshi"
4	To understand & get a Hands-on on Select statement
5	To understand & get a Hands-on on using set operations (union ,intersect and except) with select statement.
6	Create the following relations, for an investment firm emp(emp-id ,emp-name, address, bdate) Investor(inv-name , inv-no, inv-date, inv-amt) An employee may invest in one or more investments; hence he can be an investor. But an investor need not be an employee of the firm. Create the Relations accordingly, so that the relationship is handled properly and the relations are in normalized form (3NF). Assume appropriate data types for the attributes. Add any new attributes, as required by the queries. Insert sufficient number of records in the relations / tables with appropriate values as suggested by some of the queries. Write the following queries & execute them. 1. List the distinct names of customers who are either employees, or investors or both. 2. List the names of customers who are either employees, or investors or both. 3. List the names of employees who are also investors. 4. List the names of employees who are not investors.
7	To understand & get a Hands-on on nested queries & subqueries, that involves joining of tables.
8	To understand & get a Hands-on on nested queries & subqueries, that involves joining of tables, to demonstrate set cardinality.
9	Assignment related to small case studies (Each case study will involve creating tables with specified constraints, inserting records to it & writing queries for extracting records from these tables)



10	Assignment related to small case studies (Each case study will involve creating tables with specified constraints, inserting records to it & writing queries for extracting records from these tables)
Note: All practical's are done through My SQL	
Practical of Advance Web Technology	
1	Create HTML page to add basic tags :
2	Create home page to use header, formatting tag
3	Write an HTML code to illustrate the usage of the following: • Ordered List • Unordered List • Definition List.
4	Write HTML page to add image and 2 paragraph
5	Create Table FIFA World Cup as year and place
6	Use <a href> tag and Div tag and design page
7	Write an HTML code to demonstrate the usage of inline CSS. C3
8	Write an HTML code to demonstrate the usage of internal CSS.
9	Write an HTML code to demonstrate the usage of external CSS.
10	Design a simple website using Header, Menu bar, content, footer on any topic Home page having three links: About Us, Our Services and Contact Us.



BCA-I Sem-II

(With effect from July-2021)

Lab Course IV (Based on Programming in C part-II)

Credits:2	List of Practical: Lab Course IV (Based on Programming in C part-II)
Sr. No.	Description
1	Write the programs to understand categories of function. (Minimum three programs)
2	Write a program to demonstrate actual arguments and formal arguments.
3	Write a program to demonstrate storage classes.
4	Write a program to calculate mean two numbers which are given at command line.
5	Write a programs based on Pointer
6	Write a program which swap two number using a) call by value and b) call by reference.
7	Write programs based on Structure..
8	Write a program based on union.
9	Write a program to copy content of one file into another file.
10	Write a file handling program which accept student information store it into disk file using binary mode.



QUESTION PAPER PATTERN FOR ALL SEMESTERS

Duration: 3 Hours

Total Marks – 70

Instructions:

- 1) Que.1 and Que.8 are compulsory.
- 2) Attempts any three Questions from Que. No.2 to Que. No. 7.
- 3) Figures to the right indicate marks.

Qu.1) Five MCQ / Short answer Questions / Match the Pairs	05
Qu.2) Broad answer question	14
Qu.3) Broad answer question	14
Qu.4) Broad answer question	14
Qu.5) Broad answer question	14
Qu.6) Broad answer question	14
Qu.7) Broad answer question	14
Qu.8) Write notes on (Any three out of five)	09

Note: Que.2 to Que.7 may contain sub-questions (A) & (B) carrying 7 marks each.

Internal Marks Distribution:

1. Ten Marks for Tests. (Two test of 10 Marks would be conducted and convert these marks to Ten marks.)
2. Ten Marks for designing apps or software or working model/ Field Work/online learning activity or Home Assignment etc.
3. Five Marks for Oral.
4. Five Marks for Department activity participation and Attendance.(75% to 80%- 02 marks, 81% to 85 %- 03 marks, 86% to 90%- 04, marks 91% to 100% - 5 mark)

