Annual Teaching Plan : I Department: BCA

Academic Year: 2018-2019

Semester: I

Course Title: Programming in C part-I

Name of the teacher: Mr. Vijay Bapuso Pujari

Month: July			Module/Unit: 1	Sub-units planned	
Lectures	Practical's	Total 17	Problem Solving Methods:	Problem Solving Methods: Problem definition, Steps in Problem	
15	02	17		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.	
Month: At	igust	1	Module/Unit: 2	Sub-units planned	
Lectures 15	Practical's 07	Total 22	Introduction to c:	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 & December 1, 2000 Associatively. Comments-types of comments, Use of Comments, Header Files (conio, stdio, string, math). Structure of C Program, Input and Output Functions.	
Month: Se	ptember		Module/Unit: 3	Sub-units planned	
Lectures	Practical's	Total	Control Structures:	Control Structures: Conditional statements: if, If-else nested if-	
15	05	20		else,switch statement. Loops: while, for, doWhile loop, Unconditional statements: Break, continue, exit, goto statement.	
Month: October			Module/Unit: 4	Sub-units planned	
Lectures	Practical's	Total	Arrays and Strings:	Arrays and Strings: Arrays- Meaning	
15	07	22	2.	and definition, Declaration, Initialization and types of arrays (single and multidimensional arrays). Strings: Meaning and definition, Declaration, Initialization String functions strlen(), strrev(), str@wr(), strupr(), strcat(), strcmp(), strcpy(). Handling of characterarray.	



Semester: I

Department: BCA

Course Title: Fundamental of Computers Name of the teacher: Mrs. Megha Sagar Patil

Month: Ju	ly		Module/Unit: 1	Sub-units planned
Lectures 15	Practical's	Total 17	Introduction to Computers:	Introduction to Computers: Introduction to computer, Characteristics of Computers, Block diagram of computer, History of computers, Generations of computer, Applications of computer, Types of computers and features: Mini, micro, mainframe and super, Types of Programming Languages: Machine Languages, Assembly Languages and High Level Languages.
Month: A	ugust		Module/Unit: 2	Sub-units planned
Lectures 15	Practical's 02	Total 17	Peripheral Devices and Number Systems:	Peripheral Devices and Number Systems: Types of Memory (Primary And Secondary): RAM, ROM, Secondary Storage Devices (FD, CD, HD, Pen drive), I/O Devices, Number Systems: Binary, Octal and Hexadecimal, Conversion from one base to another,
Month: Se	eptember	1-	Module/Unit: 3	Sub-units planned
Lectures	Practical's	Total	Introduction to Software & ; Operating Environment:	Introduction to Software Operating Environment: Introduction to software, Types of software: System, Application and utilities. Introduction to operating system, Types of O.S., Functions of O.S., Files and Directories, Batch Files Windows Operating Environment, Features of Windows, Control Panel, Taskbar, Desktop, Windows Application, Icons, Windows Accessories: Notepad and Paintbrush
Month: O	October		Module/Unit: 4	Sub-units planned
Lectures 15	Practical's	Total 20	Operating System:	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

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Semester: 1

Department: BCA

Course Title: Principles of Management Name of the teacher; Ms. Vaishali D. Patil

Month: July			Module/Unit: 1	Sub-units planned
Lectures 15	Practical's	Total 15	Introduction to Management:	Introduction to Management: Definition of Management, nature and importance of management, Functions of Management, Levels of management, Role of Manager in Organization, Contribution of F.W. Taylor, Henry Fayol and Max Weber, Peter Drucker to management theory.
Month: Au	igust	l	Module/Unit: 2	Sub-units planned
Lectures 15	Practical's	Total 15	Planning Organizing and staffing:	Planning Organizing and staffing: Planning: Meaning, Definition & Nature, Advantages and limitation, Steps and types of planning Organizing: Meaning, Definition & Definition, Formal & Informal Organization & Definition, Virtual organization.), Staffing: Meaning Definition, Process, Aspect of staffing, Recrutment and Selection, Methods of Traning and the deviopment
Month: Se	ptember		Module/Unit: 3	Sub-units planned
Lectures 15	Practical's	Total	Directing Motivation and leadership :	Directing Motivation and leadership :Directing- Introduction, Meaning, Importance, Principle of directing, Leadership: Meaning & Definition, Theories of Leadership, Qualities of Leadership & Definition & Definitio
Month: October			Module/Unit: 4	Sub-units planned
Lectures 15	Practical's	Total 15	Controlling and Trends In Management	Controlling and Trends in Management Management Information System: Meaning, Definition; Types of Information Management of Change: Meaning Definition & Definiti

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Academic Year: 2018-2019

Semester: 1

Department: BCA

Course Title: Financial Accounting with tally. Name of the teacher: Ms. Vaishali D. Patil.

Month: Ju	ly		Module/Unit: 1	Sub-units planned Introduction to Financial Accounting	
Lectures 15	Practical's	Total	Introduction to Financial Accounting	Introduction to Financial Accounting Meaning and Definition of Financial Accounting, Objectives of Accounting, Various users of Accounting Information, Accounting Terminologies, Accounting Concepts and Conventions, Double entry system, Types of Accounts and Golden rules of accounting.	
Month: A	ngust		Module/Unit: 2	Sub-units planned	
Lectures Practical's Total 15 15			Journal and Ledger	Journal and Ledger Journal, subsidiary Books, Cash Book, Ledger Posting	
Month: Sc	ptember		Module/Unit: 3	Sub-units planned	
Lectures 15	Practical's	Total	Preparation of Financial Statements	Preparation of Financial Statements Trial Balance – Meaning, Definition, purpose and features, preparation of Trial Balance. Final Accounts – Introduction, Objectives of Final Accounts, Adjustments before Preparing Final Accounts, Preparation of Trading Account, Profit and Loss Account, Balance Sheet.	
Month: O	ctober		Module/Unit: 4	Sub-units planned	
Lectures	Practical's	Total	Introduction to Tally and Reporting	Introduction to Tally and Reporting	
15		15		Tally History and Journey, Difference between manual accounting v/s computerized accounting, Tally features, Tally Fundamentals - Company Data – Gateway of Tally, Creating and Maintaining a Company, Loading a Company, F11: Company Features, F12: Configuration. Voucher Entry, Inventory - Stock Groups, Stock Categories, Stock Items, Units of Measurement, Bills of Materials, Batches & Description of Materials, Batches & Description of Measurement, Bills of Materials, Brofit and Loss A/C, Balance Sheet, Profit and Loss A/C, Balance Sheet, Interest Calculations, Statutory Master, CST Reports, Inventory report, Day Book, Use of Reports in Bussiness.	



Academic Year: 2018-2019

Semester: II

Department: BCA

Course Title: Programming in C part-II

Name of the teacher: Mr. Vijay Bapuso Pujari

Month: December			Module/Unit: 1	Sub-units planned
Lectures 15	Practical's	Total 19	User defined functions:	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-Ontroduction, types of Preprocessor.
Month: Ja	nuary		Module/Unit: 2	Sub-units planned
Lectures 15	Practical's	Total 19	Pointers:	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().
Month: F	ebuary		Module/Unit: 3	Sub-units planned
Lectures 15	Practical's	Total 20	Structures and Unions:	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.
Month: March			Module/Unit: 4	Sub-units planned
Lectures	Practical's	Total	File Handling:	File Handling: Defining and opening a
15	02	17		file, File opening mode- open, modify, write, Closing a file, Functions:fopen(), fclose(), fscanf(), Input/Output Operations on file: getc(), putc(), getw(), putw(), fprintf(), fscanf(), ftell(), fseek(), rewind().

Semester: II

Department: BCA

Course Title: Software Packages

Name of the teacher: Mrs. Megha S. Patll.

CONTRACTOR STATE OF THE PARTY O	CONTRACTOR OF THE PERSON NAMED IN COLUMN		Module/Unit: 1	Sub-units planned
Month: December				MS-OFFICE: Introduction to Ms-office,
Lectures	Practical's	Total	MS-OFFICE:	Components and features.
15	05	20		
CONTRACTOR OF A THROW		-	Module/Unit: 2	Sub-units planned
Month: Ja	inuary			MS-WORD- Creating letter, table,
Lectures	Practical's	Total	MS-WORD	fonts , page layout document
15	os	20		formatting spell check, print preview, template, color, mall merge, auto text, Inserting picture, word art. MS EXCEL—Introduction to Excel, Sorting, Queries, Graphs, Scientific functions.
		Module/Unit: 3	Sub-units planned	
Month: F	THE RESERVE OF THE PARTY.		POWER POINT	POWER POINT: Introduction to Power
Lectures	Practical's	Total	POWERPOINT	Point Creation of Slides, Inserting
15	05	20		pictures, Preparing slide show with animation. MS-ACCESS - Creation and Manipulation of Files.
		Module/Unit: 4	Sub-units planned	
Month: March		Networking	Networking : Concept, Basic elements	
Lectures	Practical's	Total		of a Communication System, Data
15	02	17	17	transmission media, Topologies, LAN MAN, WAN, Internet



Semester: II

Department: BCA

Course Title: Bank Management Name of the teacher: Mr. Raju Savant

	bar		Module/Unit: 1	Sub-units planned
Month: December Lectures Practical's Total			Bank Organization:	Bank Organization: Meaning and concept of Bank
Lectures 15	00	15	Dank Organization	Meaning and concept of Bank Importance and Functions of Bank Meaning and concept of Bank Management- Customer centric v/s Business Centric management organizational set up of commercial bank-Bank organization- Role of Director, General manager- Important Provisions of and Branch manager Important Provisions of - Banking regulation Act- 1949.
Month: Ja	nuary		Module/Unit: 2	Sub-units planned
Lectures	Practical's	Total	Liquidity and credit Management	Liquidity and credit Management
15	00	15		Liquidity policies- Day to Day management of the money position-Fund based credit management NPA-supervision and Follow up credit administration and monitoring of advances-Non fund based credit management-concept of Leasing and Hire purchase.RBI: Role as Regulator, Information about credit policy-Repo, Revise Repo, CRR Policy, RIB Selection
Month: F	obuary		Module/Unit: 3	Sub-units planned
Lectures	Practical's	Total	Customer service and ombudsman scheme:	Customer service and ombudsman scheme:
15	00	15	1	Customer Orientation, Basic Aspects of Customer Service: Deposit Accounts, Remittances Services, Collections Services, Loans and Advances, Discipline and Attitudes, Complaints, Other Services. Know Your Customer (KYC) Policy: Definition, Objective, Key Elements of KYC Policy, KYC and new technologies: Credit .Debit/Smart Cards. Banking Ombudsman Scheme: Scope of Complaints, Present Scenario.
Month: March			Module/Unit: 4	Sub-units planned
Lectures	Practical's	Total	Capital Management and Information	Capital Management and Information
15	00	15	Technology	Technology Banking sector reforms- Capital adequacy-E- banking, E-money and Tele Banking- Cyber Law-Management Information system. Virtual Banking





Semester: II

Department: BCA

Course Title: Financial Accounting with tally Name of the teacher: Ms. Vaishali D. Patil

Month: De	ecember		Module/Unit: 1	Sub-units planned
Lectures 15	Practical's	Total 15	Final Accounts of Non-trading/Non-	Final Accounts of Non-trading/Non- profit making organizations- Preparation of Receipts and Payments A/C, Income and Expenditure A/C and Balance Sheet.
Month: Ja	nuary		Module/Unit: 2	Sub-units planned
Lectures 15	Practical's	Total 15	Accounting of Limited company	Accounting of Limited company- Types of shares and Debentures, Classification of Share Capital, Preparation of Profit and Loss A/C and Balance Sheet in vertical format.
Month: Fe	ebuary		Module/Unit: 3	Sub-units planned
Lectures 15	Practical's	Total 15	Introduction to Tally:-	Introduction to Tally:-Introduction to GST, Features of tally, creation of company, Accounts only and Accounts with Inventory, Getway of Tally, Accounts configuration, Groups and Ledgers, Voucher entry with Bill wise details Interest computation, order processing., Cases
Month: March			Module/Unit: 4	Sub-units planned
Lectures 15	Practical's	Total 15	Reports	Reports- Profit and Loss A/C, Balance Sheet, . Statutory Master, CST Reports, TDS Repots, TCS Reports, Inventory Report, Day Book.



Semester: II

Department: BCA

Course Title: Marketing Management Name of the teacher: Ms. Vaishali D. Patil

Month: December			Module/Unit: 1	Sub-units planned
Lectures 15	Practical's	Total 15	Introduction	Introduction: Meaning, & definition of Marketing, features of Marketing, Significance of marketing, core concepts of Marketing- Need, Want, Demand, Value, Satisfaction, exchange transaction & relationship. Modern Marketing concept, holistic marketing & green marketing. Marketing in 21st Century- Challenges & opportunities.
Month: Ja	nuary		Module/Unit: 2	Sub-units planned
Lectures 15	Practical's	Total 15	Marketing Mix:	A) Marketing Mix: Elements in Micro & Micro environment, Analysis of their impact on Marketing function of an organization B) Marketing of Services- Meaning, Characteristics of services, problems in services Marketing, Outsourcing of I.T. services.
Month: Fo	ebuary	-	Module/Unit: 3	Sub-units planned
Lectures	Practical's	Total	Marketing Research:	A) Marketing Research: - Meaning & importance, Steps in Marketing
15	00	15	*	research process, Marketing Information System- concepts & components B) E-Marketing: Concept & techniques, significance of e-Marketing in 21st Century.
Month: March			Module/Unit: 4	Sub-units planned
Lectures 15	Practical's	Total	Distribution Marketing Management	A) Distribution Marketing Management: Introduction, Need for Marketing Channels, Decision involved in setting up the channels, Channel Management strategy B) Consumer Behavior: Meaning & Significance of secretary
			ĭ	B) Consumer Behavior: Meaning significance of consumer behat factors affecting consumer behat



(Mr. S. S. Kale)

Co-ordinator

Department of B.C.A. Vivekanand College, Kolhapur



Academic Year; 2018-2019

Semester: III

Department: BCA

Course Title: Management Accounting

Name of the teacher: Mrs. Vaishall D. Patil

donth:	July		Module/Unit: 1	Sub-units planned
ectu es 15	Practical's		Introduction to Management Accounting:-	Meaning and Nature of Management Accounting, Role of Management, Accountant in Planning, Controlling and Decision Making, Difference between
				Financial Accounting and Management Accounting, Tools and Techniques of Management Accounting.
Month	: August		Module/Unit: 1	Sub-units planned
		Tabel	Financial Statement Analysis:-	Importance of Financial Statement
Lectur es	Practical's	Total	tuanta statement construction	Analysis, Techniques of
15	07	22		FinancialStatement Analysis - Ratio Analysis, Classification of Ratios- ProfitabilityRatio, Turnover Ratios, Liquidity Ratios, Solvency Ratios.
Month	n: September		Module/Unit: 1	Sub-units planned
Lectur		Total	Cost-Volume- Profit(CVP)	Analysis and Decision Making- Break Even Analysis, Cost-Volume- ProfitAnalysis, Decision Making- Make or Buy Decisions,
15	05	20		Shut Down or ContinueDecisions, Alternative Course of Action etc.
Mont	n: October		Module/Unit: 1	Sub-units planned
Lectur		Total	Budgetary Control:-	Meaning of Budget and Budgetary
Lectui	al's		The second Third and the second secon	Control, Objectives, Advantages,
15	07	22		Limitations of Budgetary Control, Types o Budget- Production, Sales, Cash, Master Budget, Capital Expenditure, Budgeting.



Academic Year: 2018-2019

Semester: III

Department: BCA

Course Title: Management Accounting

Name of the teacher: Mrs. Vaishali D. Patil

Month:	July		Module/Unit: 1	Sub-units planned
ectu es L5	Practical's	Total 17	Introduction to Management Accounting:-	Meaning and Nature of Management Accounting, Role of Management, Accountant in Planning, Controlling and Decision Making, Difference between Financial Accounting and Management Accounting, Tools and Techniques of Management Accounting.
Month	: August		Module/Unit: 1	Sub-units planned
Lectur es		Total	Financial Statement Analysis:-	Importance of Financial Statement Analysis, Techniques of
15	07	22		FinancialStatement Analysis- Ratio Analysis, Classification of Ratios- ProfitabilityRatio, Turnover Ratios, Liquidity Ratios, Solvency Ratios.
3.6 .1	Contambar		Module/Unit: 1	Sub-units planned
Lectur	h: September res Practical' s	Total	Cost-Volume- Profit(CVP)	Analysis and Decision Making- Break Even Analysis, Cost-Volume- ProfitAnalysis, Decision Making- Make or Buy Decisions,
15	05	20		Shut Down or ContinueDecisions, Alternative Course of Action etc.
			Module/Unit: 1	Sub-units planned
Mont	th: October			Meaning of Budget and Budgetary
Lectu	al's	Total	Budgetary Control:-	Control, Objectives, Advantages, Limitations of Budgetary Control, Types o
15	07	22	i d	Budget- Production, Sales, Cash, Master Budget, Capital Expenditure, Budgeting.



Academic Year: 2018-2019

Semester: III

Department: BCA

Course Title: Management Accounting

Name of the teacher: Mrs. Vaishali D. Patil

Month:	July		Module/Unit: 1	Sub-units planned Meaning and Nature of Management	
ectu es 15	Practical's	cal's Total	Accounting:-		Accounting, Role of Management, Accountant in Planning, Controlling and Decision Making, Difference between Financial Accounting and Management Accounting, Tools and Techniques of Management Accounting.
) Cametha	August		Module/Unit: 1	Sub-units planned	
MOUNT:	. August			Importance of Financial Statement	
Lectur es	Practical's	Total	Financial Statement Analysis:-	Analysis, Techniques of FinancialStatement Analysis- Ratio	
15	07	22		Analysis, Classification of Ratios- ProfitabilityRatio, Turnover Ratios, Liquidity Ratios, Solvency Ratios.	
3.7 al.	Sentember		Module/Unit: 1	Sub-units planned	
	: September	Total	Cost-Volume- Profit(CVP)	Analysis and Decision Making- Break Even	
Lecture	es Practical' s	10(a)		Analysis, Cost-Volume- ProfitAnalysis, Decision Making- Make or Buy Decisions,	
15	05	20		Shut Down or ContinueDecisions, Alternative Course of Action etc.	
			Module/Unit: 1	Sub-units planned	
	: October	Total	Budgetary Control:-	Meaning of Budget and Budgetary	
Lectur	al's	ENTERNANCE (Control, Objectives, Advantages, Limitations of Budgetary Control, Types o	
15	07	22		Budget- Production, Sales, Cash, Master Budget, Capital Expenditure, Budgeting.	



Semester: III

Department: BCA

Course Title: Human Resource Management

Name of the teacher: Mr. R. S. Sawant

Month: July			Module/Unit: 1	Sub-units planned
Lectu res	Practical's 02	Total	Introduction to HRM:	Introduction , Concept, Definition, HRD, Functions of HRM , Organization of HRD Role HRM , Qualities of HR Manager, Limitations & challenges of HRM
Month: August			Module/Unit: 1	Sub-units planned
Lectur es	Practical's		Human resource Planning & Development :	Meaning and need of HRP, Process of HRP in I.T. Industry, Factors affecting HRP, Job Analysis, Job Description,
15	07	22		Recruitment and Selection procedures in I.T. Industry. Training and Development methods followed in I.T. Industry
Month:	September		Module/Unit: 1	Sub-units planned
Lecture s		Total	Virtual Organization :	Virtual Organization: meaning, type., Difference between Traditional and Virtual Organization. ,features of
15	05	20		Virtual Organization, HRM in Virtual Organization,
Month: October			Module/Unit: 1	Sub-units planned
Lecture	s Practi cal's	Total	Employee Separation	Employee Separation practices in I.T. industry, Voluntary Retirement
15	07	22	1 	Schemes , Resignation-Discharge-Dismissal- Suspension-Layoff, Exit interview.



Academic Year: 2018-2019

Semester: III

Department: BCA

Course Title: System Analysis and Design

Name of the teacher: Mrs. M. S. Patil

Month: July Lectu Practical's Total			Module/Unit: 1	Sub-units planned 1Definition , Elements of System
	5		Introduction to System Concepts:	1.2Characteristics of System 1.3Types of System 1.4System Concepts
Month:	Month: August		Module/Unit: 1	Sub-units planned
Lectur	Practical's	Total	Requirement Analysis	2.1Definition of System Analysis 2.2Requirement Anticipation
es		22		2.3Knowledge and Qualities of System Analyst 2.4Role of a System Analyst 2.5Feasibility Study And It's Types 2.6Fact Gathering Techniques 2.75RS(System Requirement Specification)
			Module/Unit: 1	Sub-units planned
Lectur	res Practical' s	Total	Introduction to Software Engineering	3.1Definition Need for software Engineering 3.2Software Characteristics
15	05	20		3.3Software Qualities (McCalf's Quality Factors Software Development Methodologies 3.4 SDLC (System Development Life Cycle) 3.5 Waterfall Model 3.6 Spiral Model 3.7 Prototyping Model 3.8 RAD Model Sub-units planned
Mont	h: October		Module/Unit: 1	4.1Entity-Relationship Diagrams
Lectu	al's	Total	Analysis and Dasign Tools	4.2Decision Tree and Decision Table 4.3Data Flow Diagrams (DFD)
15	07	22	ESTD COLLEGE	4.4Data Dictionary 4.4.1 Elements of DD 4.4.2 Advantage of DD 4.5 Input And Output Design 4.6 CASE STUDIES (Based on Above Topic Software Testing 4.7 Definition, Test characteristics 4.8 Types of testing 4.8.1 Black-Box Testing 4.8.2 White-Box Testing 4.8.3 Unit testing 4.8.4 Integration testing 4.9 Validation&Verification

Academic Year: 2018-2019

Semester: III

Department: BCA

Course Title: Object Oriented Programming with C++

Name of the teacher: V. B. Pujari

Month: July			Module/Unit: 1	Sub-units planned History of OOP, Introduction to Object
ectu	Practical's	Total	Principles of Objective Oriented Programming	Oriented Programming, Basic Concepts of Object Oriented Programming, Benefits of
es 5	02	17		Object Oriented Programming, Object Oriented Languages, Difference between
122				Beginning with C++:- Tokens, Keywords, Identifiers and Constants, Data Types, Type Compatibility, Variables, Operators in C++, Operator Precedence, Control Structures (Conditional, Unconditional and Looping).
Month:	August		Module/Unit: 1	Sub-units planned
Lectur	Practical's	Total	Functions in C++, Classes & Objects	Concept of Function, main() Function, Inline Functions, Function Overloading,
es 15	07	22		Specifying a Class, Data members and Member Functions, Access Specifiers, Friend Function, Static data Member, Object declaration and Initialization, Arrays of Objects Constructors & Destructors, Inheritance
			1.0	Constructors-Definition, Use of Constructors, Types of Constructors (Default, Parameterized, Copy, Dynamic), Destructors-Definition, Use, Inheritance- Definition, Types of Inheritance (Single, Multiple, Multilevel, Hierarchical, Hybrid)
			Module/Unit: 1	Sub-units planned
Month Lectur	es Practical'	Total	Pointers, Virtual Functions &Polymorphism	Pointer, Pointer to Object, this pointer, Pointer to Derived Classes, Polymorphism Meaning, compile Time and Run time
15	05	20		polymorphism, Rules for Operator Overloading, Operator Overloading (Unary & Binary)-with member function and friend function.
	L. Ostober		Module/Unit: 1	Sub-units planned
Month: October		Total	Working with Files	File-Definition, Use, Classes for File
Lectu 15	res Practic al's 07	22	ESTD JUNE 1964	Stream Operations, Opening and Closing File, File Opening Modes, File Pointers, Manipulation of File Pointer(usingseekg,seekp,tellg,tellp), Input Output Operations- get () Put (), read () Write ().

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Academic Year: 2018-2019

Semester: III

Department: BCA

Course Title: Computer Oriented Statistical Methods

Name of the teacher: Mr. A. A. Powar

Monus, July			Module/Unit: 1	Sub-units planned
ectu	Practical's	Total 17	Introduction to Statistics:	Meaning and Scope of Statistics, Primary and Secondary data. Frequency, Frequency distribution, Qualitative and quantitative data, Discrete and Continuous variables. 1.3 Representation of frequency distribution by graphs: Histogram, Frequency polygon, Frequency curve, O give curve.
Month: /	August		Module/Unit: 1	Sub-units planned
Lectur	Practical's	Total	Measures of Central Tendency and Dispersion:	Measures of Central Tendency and Dispersion 2.1 Measures of central Tendency
15	07	22		(Averages) 2.1.1 Meaning of averages, Requirements of good average 2.1.2 Definitions of Arithmetic mean (A.M.), Combined mean, Median, Quartiles, Mode, Relation between mean, median and mode. 2.1.3 Merits and Demerits of Mean, Median and Mode 2.1.4 Numerical examples based on 2.1.2 2.1.5 Determination of Median and Mode by Graph
Month:	September		Module/Unit: 1	Sub-units planned
Lecture		Total	Analysis of Bivariate data :	3.1 Correlation 3.1.1 Concept of Correlation, Types of correlation (Positive, Negative, Linear and Non-linear), Methods of
15	05	20		studying correlation: Scatter diagram, Karl Pearson's Correlation Coefficient (r) and Spearman's Rank Correlation Coefficient (R). 3.1.2 Interpretation of r = + 1, r = -1, r = 0. 3.1.3 Numerical examples on 3.1.1and 3.1.2
Month: October			Module/Unit: I	Sub-units planned
Lecture		Total	Sampling Techniques and Time Series Analysis:	4.1 Sampling Techniques: 4.1.1 Definitions of Sample, Population, Sampling, Sampling
15	07	22		Method and Census method. Advantages of sampling method over

Academic Year: 2018-2019

Semester: IV

Department: BCA

Course Title: Entrepreneurship Development

Name of the teacher: Mrs. V. D. Patil

Month: December			Module/Unit: 1	Sub-units planned
ectu Profes 15 02	actical's	Total	Entrepreneurship:-	Concept, Classification – Functions, Qualities of successful Entrepreneurship, Concept of Entrepreneur and entrepreneur. Entrepreneurship in modern Era.
Month: Ja	nuary		Module/Unit: 1	Sub-units planned
es	Practical's	Total 22	Entrepreneurship Development:-	Concept, objectives, process, problems, measures in Entrepreneurship Development, Role of Entrepreneurship In Economic Development (Theories), Institutional support for Entrepreneurship Development - National Institute for Entrepreneurship and Small Business Development (NIESBD), Small Industry Development Bank of India (SIDBI), District Industry Censes (DIC)
Month: F	ebruary		Module/Unit: 1	Sub-units planned
Lecture s	Practical 's	Total 20	Project Management:-	Project- classification of project, Stages of Project Management, Reasons for failure for, Project, Project for Retail stores, Hotel, Hospital, Dairy.
Month: March			Module/Unit: 1	Sub-units planned
Lectures	Practi cal's	Total	Successful IT Indian Entrepreneurs:-	Ratan Tata, AzimPremji, Narayan Murthy, Anand Mahindra, Kumar

Academic Year: 2018-2019

Semester; IV

Department: BCA

Course Title: Web Technology

Name of the teacher: Mr. R. S. Sawant

Month: December			Module/Citic 1	Sub-units planned 1.1 Network, Client, Server,
ectu es	Practical's	Total	internes and trees.	1.1 Network, Client, Server, 1.2 What is Internet & Applications, WWW 1.3 URL, DNS, Bbrowsers,
				Web Development: 2.1:Introduction, features, steps in web development, . 2.2 Scripting Languages 2.3 HTML, structure 2.4 Basic Tags 2.5 Formatting tags, examples
Montl	h: January		Module/Unit: 1	Sub-units planned
Lectu es	r Practical's	Total	HTML tags:	3.1 Heading and paragraph tags, font tag. tag 3.2 List Tags-ordered and unordered
15	07	22		list tags: , <hr/> ., <marquee> 3.3: Hyperlink, <a> Image and Image maps, <form> tag, form controls to design UI</form></marquee>
Mon	th: February		Module/Unit: 1	Sub-units planned
Lectu		Total	JAVA SCRIPT :	4.1 Introduction, Difference in Client- Side and Server-Side Script, features, Introduction to Java script
15	05	20		4.2 keywords, data types, control statements (If-else, looping) with examples 4.3 objects in Java. Events and Event Handlers, 4.4 Dialogue boxes, Built-in functions and Validations Sub-units planned
Mor	nth: March		Module/Unit: 1	LU Dellen
	ures Practi cal's	Total	Introduction to Server-Side scripting :	server set-up for ASP (PWS/IIS), built
15	07	22	COLLEGE TO LE SEL JUNE SEL	5.2 loop Structure, control structure (If-Else-Then), methods to get data from 5.3 Clients – (GET and POST), difference between GET and POST 5.4,database handling, connections and record set object. 5.5Case Studles: On line Shopping Website, University Website

Academic Year: 2018-2019 Semester: IV

Department: BCA

Course Title: Database Management System

Name of the teacher: Mrs. M. S. Patil

Aonth: December			Module/Unit: I	Sub-units planned 1.1 Introduction	
-	Practical's 02	Total	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	
Month	: January		Module/Unit: I	Sub-units planned	
Lectur Practical's Total		Total 22	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	
15	o,			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	
Mont	h: February		Module/Unit: 1	Sub-units planned	
Lectu s	-	Total	Data Models	3.1 Introduction 3.2 Data Models 3.2.1 Object Based Logical Model	
15	05	20		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 Mode terms Introduction	
Mon	th: March		Module/Unit: 1	Sub-units planned	
Lectu	-	Total	Relational algebra	4.1 Introduction 4.2 Operations a. Select b. Project c. Union d. Difference e. Intersection	
15	07	22		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	

Academic Year: 2018-2019

Semester: IV

Department: BCA

Course Title: Organizational Behavior

Name of the teacher: Mrs. V. B. Pujari

Month: December			Module/Unit: 1	Sub-units planned	
The state of the s	Practical's Total		Introduction to Organizational Behavior:	Definition, Importance, Scope, Fundamental Concepts of OB, Disciplines continuing to O.B. Evolution of O.B	
15	02	17			
Month: J	anuary		Module/Unit: 1	Sub-units planned	
Lectur es	Practical's	Total	Attitude, Values and Motivation:	Meaning of attitude, perception, Effects of employee attitudes, components of Attitude, Organizational Values, Importance of Motivation, Motivation process, Motivation model. Maslow's Need Hierarchy Theory	
15	07	22		Sub-units planned	
Month:	February		Module/Unit: 1	Sub-units planned	
Lectures Practical' Total s			Organizational culture, Quality Work Life and Stress Management :	A) Organization Culture & Stress Management: B) Stress Management C) Quality Work Life	
15	05	20		a to the learned	
Month:	March		Module/Unit: 1	Sub-units planned	
Lecture	Practic Total		Group Behavior ,Conflict and Stress:	Nature of Group. Types of Groups, Team Building and Effective team works, Stage	
15	07	22		of group Formation, Concept of conflict- Conflicts & Stress – Concept, why and how & Management5.5Case Studies: On line Shopping Website, University Website	



Academic Year: 2018-2019

Semester: IV

Department: BCA

Course Title: Mathematics Foundation

Name of the teacher: Miss. Snehal Patil

Month: December			Module/Unit: 1	Sub-units planned
ectu res	Practical's 02	Total	SETS:	1.1 Meaning of a set. 1.2 Methods of describing of a set. 1.2.1 Tabular form 1.2.2 Set builder form 1.3 Types of a set 1.3.1 Finite set, Infinite set, Empty set, Subset, Universal set. 1.3.2 Equal sets, Disjoint sets, Complementary set. 1.4 Operation on Sets 1.4.1 Union of sets 1.4.2 Intersection of sets
Month:	January		Module/Unit: 1	Sub-units planned
Lectur es	Practical's	Total 22	Logic:	2.1 Introduction 2.2 Meaning of Statement (Proposition). 2.3 Simple and compound statements. 2.4 Truth values of a statement.2.5 Law of excluded middle. 2.6 Logical Operations: Negation, Conjunction, Disjunction, Implication, Double Implication. 2.7 Equivalence of Logical statements. 2.8 Truth Tables and construction of truth
			1 77 10 1	tables. Sub-units planned
Month:	February		Module/Unit: 1	3.1 Meaning of a matrix, Order of
Lecture	Practical's	Total	Matrices:	matrix.3.2 Types of matrices 3.2.1 Row matrix, Column matrix, Null matrix, Unit matrix 3.2.2 Square Matrix, Diagonal matrix, Scalar matrix,
	,, ,	<u> </u>	Module/Unit: 1	Sub-units planned
	Month: March Lectures Practic al's		Graph Theory	4.1 Introduction to Graph 4.2 Kinds of Graph: Simple, Multi and Pseudo Graph 4.3 Digraph 4.4 Weighted Graph 4.5
15	07	22		Degree of Vertex, Isolated Vertex 4.6 Path, Cycle, A-Cycle, 4.7 Types of Graph: Complete, Regular, Bi-Partite



Co-ordinator
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Vivekanand College, Kolhapur



Academic Year: 2018-2019

Semester: V

Department: BCA

Course Title: Management Accounting Name of the teacher: Ms. Vaishali D.Patil

Month: Jul	V	Carried Control of Control	Module/Unit: 1	Sub-units planned
Lectures 15	Practical's	Total 15	Introduction to Management Accounting:-	Meaning and Nature of Management Accounting, Role of Management, Accountant in Planning, Controlling and Decision Making, Difference between Financial Accounting and Management Accounting, Tools and Techniques of Management Accounting.
Month: Au	igust		Module/Unit: 2	Sub-units planned
Lectures 15	Practical's	Total 15	Financial Statement Analysis:-	Importance of Financial Statement Analysis, Techniques of FinancialStatement Analysis- Ratio Analysis, Classification of Ratios- ProfitabilityRatio, Turnover Ratios, Liquidity Ratios, Solvency Ratios.
Month: Se	intamber		Module/Unit: 3	Sub-units planned
Lectures	Practical's	Total	Cost-Volume- Profit(CVP)	Analysis and Decision Making- Break Even Analysis, Cost-Volume-
15	00	15	Introduction to Management Accounting:- Introduction to Management Accounting:-	ProfitAnalysis, Decision Making- Make or Buy Decisions, Shut Down o Continue Decisions, Alternative Course of Action etc.
Month: October			Module/Unit: 4	Sub-units planned
Lectures 15	Practical's	Total 15	Budgetary Control:-	Meaning of Budget and Budgetary Control, Objectives, Advantages, Limitations of Budgetary Control, Types of Budget- Production, Sales, Cash,



Semester: V

Department: BCA

Academic Year: 2008-2000 Course Phile: Company Network

Name of the tracher: Mrs. Megha S. Paril.

-		MARKET PARKET	Medule/Unit: 1	Sub-units planned
luniii: July actumes	Practical's	Total 15	TRESTS of Date communication	18asics of Data communication 1.1. Data Communication concept 1.1.1 Components-sender, receiver, message,transmission media 1.1.2 Data Flow-simplex, half-duplex, or full-duplex 1.3 Multiplexing and switching 1.3.1 Frequency-Division Multiplexing, Wavelength-Division Multiplexing, Time-Division Multiplexing 1.3.2 Circuit switching, Packet Switching, Message Switching
			Medule/Unit: 2	Sub-units planned
Wantin An			Transmission media and Reference Models	Transmission media and Reference Models
Lectures	macricals	Total	Transmission medic and inches	2.1 Transmission Media 2.1.1 Guided Media - Twisted-Pair Cable,
is	93	15		2.1.1 Guided Media - Iwisted-Pail Cobic. Cobxial Cable, Fiber-Optic Cable 2.1.2 Unguided Media: Radio Waves Microwaves, Infrared, satellite communication 2.2 Transmission Modes- Parallel and Serial (Asynchronous, Synchronous) 2.3 Reference Models 2.3.1 OSI reference model 2.3.2 TCP/IP reference model
	actuminer.		Module/Unit: 3	Sub-units planned
Months S		-	Data link, Network and Transport layer	Data link, Network and Transport layer 12
Lectures	शक्योद्योड	ग्रस्को		3.1 Data link Layer- 3.1.1Design issues 3.1.2 Framing, error detection and
15	œ	15		correction 3.2 Network layer 3.2. 1 design issues of network layer 3.2.2 Routing algorithm (shortest path, Flooding, distance vector,) 3.2.3 Congestion control 3.3 Transport layer
		1	Module/Unit: 4	Sub-units planned
Month: Q	שטעש		Session, Presentation and Application	4.1 Session layer:
Lectures	Practical's		Session, Presentation and App	4.1.1 Services: dialog management,
15	an	15		synchronization, activity management, exception handling 4.1.2 Remote procedure calls 4.2 Presentation layer: 4.2.1 Services: Translation, compression, encryption 4.2.2 Cryptography: concept, symmetric ke & asymmetric key cryptography 4.3 Application layer:



Semester: V

Department: BCA

Academic Year: 2018-2019

Course Title: RDBMS with Oracle

Name of the teacher: Mr. Prashant Chivate.

			Module/Unit: 1	Sub-units planned
Ionth: July			Relational Database Management System	Relational Database Management System: 1.1 Concept of RDBMS, Difference between
ectures 5	Practical's	Total 20	Relational Dates	DBMS and RDBMS, Features of RDBMS. 1.2 Introduction of Oracle, Role and responsibilities of DBA. 1.3 RDBMS Terminology- Relation, Tuple, Cardinality, Attribute, Degree, Primary Key, Domain, Codd's Rules 1.4 Relational Model, Functional Dependencies, Normalization and its types.
			Module/Unit: 2	Sub-units planned
Month: At	ugust			INTRODUCTION TO SQL:
Lectures 15	Practical's 07	Total 22	Introduction to sq0	2.1 Features of SQL, Data types, 2.2 Classification of SQL Commands – DDL (create, alter, drop), DML (insert, update, delete), DCL (grant, revoke), TCL (rollback, commit). 2.3 SQL Integrity Constraints-(Primary key, Foreign key, unique key, not null, default, check) 2.4 Select statement with group by and order by clause 2.5 SQL Operators-arithmetic, relational, Logical, Like, Between, IN operator 2.6 SQL Functions- Arithmetic functions, Conversion Functions, Date function, Aggregate functions, String functions.
	-140		Module/Unit: 3	Sub-units planned
Month: 5	September		Join and sub queries:	JOIN AND SUB QUERIES:
Lectures	Practical's		Join and sub queries.	3.1 Join types - Inner Join, Outer Join, Cross
15	07	22		Join and self-Join 3.2 Sub-queries, Multiple sub queries, nesting of sub queries, sub queries in DML commands. 3.3 Correlated queries, Indexes, Sequences. Views-Create View, Drop, View and Its Advantages., Denial of service (DoS), Firewall and proxy server.
			Module/Unit: 4	Sub-units planned
Month:	October	T.Ar.	Introduction to pl/sql	INTRODUCTION TO PL/SQL:
Lecture:	s Practical	S Total		4.1 Introduction to PL/SQL, Block Structure 4.2 Data types in PL-SQL 4.3 Control Structures-Branching statements, Iterative Control statements. 4.4 Cursors —Concept, Types—Implicit Explicit, Procedure to create explicit cursors, Cursor Attributes. 4.5 TRIGGERS: Concept and types.

Semester: V

Department: BCA

Course Title: Visual Programming

Name of the teacher: Mr. Prashant Chivate.

Month: July	,		Module/Unit: 1	Sub-units planned
ectures	Practical's	Total	Introduction	Introduction 12 1.1 overview, Architecture, Features of .NET
.5	02	17		1.2 Meta data, CLR, Managed and unmanaged code 1.3 CTS, CLS, .NET base classes 1.4 Introduction to Visual Studio .NET IDE 1.5 Types of JIT compiler
Month: Au	oust		Module/Unit: 2	Sub-units planned
Lectures	Practical's	Total	Introduction To C#	Introduction To C# 12 2.1 Introduction to C#, Entry point method,
15	07 22		command line arguments 2.2 Compiling and building projects, Compiling a C# program using command line utility, CSC.EXE, Different valid forms of main. 2.3 Global stack and heap memory, reference type and data type, casting implicated explicit 2.4 Boxing and unboxing, pass by value and pass by reference and out parameters	
				2.5 Partial class, DLL, Difference between DLL and EXE
Month: Se	ptember		Module/Unit: 3	Sub-units planned
Lectures	Practical's	Total	Introduction to Web Programming	Introduction to Web Programming 12 3.1 Understanding role of WEB server and WEB browser, HTTP request and
15	05	20	3	response structure. 3.2 Introduction to ASP, Types of path, FORM tag 3.3 Types of server controls 3.4 Validation controls-Base validator, compare validator, range validator, grouping control validator 3.5 Web forms life cycle
Month: O	stoher		Module/Unit: 4	Sub-units planned
	Practical's	Total	ADO .NET	ADO .NET 12
15	07	22		4.1 Introduction to ADO.Net 4.2 ADO.NET Architecture- Conncetion, command, dat reader, data adapter, data set 4.3 Understanding connected layaer of ADO.NET and disconnected layer of ADO.NET

Semester: VI

Department: BCA

Academic Year: 2018-2019 Course Title: Strategic Management Name of the teacher: Ms. Vaishali D. Patil.

Month: Dev	ember		Module Unit: 1	Sub-units planned
ectures.	Practical's	Total	Introduction to Strategic Alamagement	Introduction to Strategic Management Consent of Massim Vision, Objectives, Consent of Strategic, Importance of Strategic
15	00	15		Success - Displaint surrace Forest in Survival: Survivals Weinsteinhost Concess in Equality, surrace on a con-
			Module Unit: 2	Sub-units planned
Month:Jan	luary	,	The state of the s	Emergement Analysis
Lectures	Practical's	Total	Environment Analysis	Concept and Characteristics of phylosopions,
15	00	15		components of internal eminorament. SHCC Components of external eminorament, PESTEL Framework - Porter's Five Forces Model.
Month: F	hruan		Module Unit: 3	Sub-units planned
	Practical's	Total	Strategies Types and Analysis	Stategies Types and Analysis
Lectures 15	00	15		Corporate strategies stability strategy expansion strategy, retrenchment strategy; extrategy; adultis, and focus strategy; an
			Module Unit: 4	Sub-units planned
Month: N		7 7-1-1	Strategic Evaluation and Control	Strategic Evaluation and Control Strategic evaluation, imp. problems - Senctimarking for strategy evaluation.
Lectures	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	rs Total		
15				Strategic Control. Types and techniques of strategic control, operational control- managing strategic change-types, mechanism and process of managing strategic change-strategy in global emitonment-Social & emironmental sustainability issues in strategic management, Triple bottom line—Role of Different Strategics: Contemporary practices of strategic management.



Semester: VI

Department: BCA

Academic Year: 2018-2019 Course Title: Data warehousing and data mining

Name of the teacher: Mrs. Megha S. Patil.

				Sub-units planned
Ionth: Dec			- Adlalan	Introduction to Data Mining
ectures 5	Practical's 00	Total 15	Introduction to Data Williams	1.1 Basic Data mining Task 1.2 DM versus Knowledge Discovery in Databases 1.3 Data Mining Issues 1.4 Data Mining Metrics 1.5 Social implementation of Data Mining 1.6 Overview of Application of Data mining 1.6.1 Architecture of DW 1.6.2 OLAP and Data Cubes 1.6.3 Dimensional Data Modeling - star , snowflake schemas 1.6.4 Data processing - Need Data cleaning. Data integration and Transformation, Data reduction 1.6.5 machine learning 1.6.6 pattern matching
			Module/Unit: 2	Sub-units planned
Month: Ja		T	Data Mining techniques	Data Mining techniques
Lectures	Practical's	Total	Data Mining techniques	2.1 Frequent item - set and association rule mining: apriori algorithm, use of
15	00	15		mining: aprior agonic models applied for frequent item- set tree algorithm 2.2 graph sampling : frequent sub graph mining . tree mining , sequence mining 2.3 Classification and prediction: 2.3.1 Decision tree [3 hrs] 2.3.2 Construction, performance, attribute selection
			Module/Unit: 3	Sub-units planned
Month: F	ebruary			Clustering
Lectures	Practical's	Total	Clustering	3.1 K-means
15	00	15		algorithm 3.3 Hierarchical clustering , Carrolton clustering
			Module/Unit: 4	Sub-units planned
Month: N	Aarch		Committee of Access of the Committee of	Software for Data mining and application of
Lectures	Practical's	Total	Software for Data mining and application of Data mining	Data mining 4.1 R
15	00	15		4.3 Sample applications of data mining





Course Title: Data warehousing and data mining

Name of the teacher: Mrs. Megha S. Patil.

onth: Dec	ember	TWO IS TO SEE THE SECOND	Module/Unit: 1	Sub-units planned Introduction to Data Mining
octures	Practical's	Total 15	Introduction to Data Mining	1.1 Basic Data mining Task 1.2 DM versus Knowledge Discovery in Databases 1.3 Data Mining Issues 1.4 Data Mining Metrics 1.5 Social Implementation of Data Mining 1.6 Overview of Application of Data mining 1.6.1 Architecture of DW 1.6.2 OLAP and Data Cubes 1.6.3 Dimensional Data Modeling - star , snowflake schemas 1.6.4 Data processing - Need Data cleaning. Data integration and Transformation, Data reduction 1.6.5 machine learning 1.6.6 pattern matching
			Module/Unit: 2	Sub-units planned
Month: Ja	The second secon	7	Data Mining techniques	Data Mining techniques 2.1 Frequent item - set and association rule
Lectures	Practical's	Total 15		
15	00			mining: aprior algorithm, set tree algorithm 2.2 graph sampling : frequent sub graph mining . tree mining , sequence mining 2.3 Classification and prediction: 2.3.1 Decision tree [3 hrs] 2.3.2 Construction, performance, attribute selection
			Module/Unit: 3	Sub-units planned
Month: I				Clustering
Lectures	Practical's	Total	Clustering	3.1 K-means 3.2 expectation maximization (EM
15	00	15	7	algorithm 3.3 Hierarchical clustering , Carro
			Module/Unit: 4	Sub-units planned
Month:	March		Software for Data mining and application o	f Software for Data mining and application
Lectures	Practical's	Total	Data mining	Data mining 4.1 R 4.2 Weka
15	00	15		4.3 Sample applications of data mining



Semester: VI

Department: BCA

Course Title: Linux Operating System Name of the teacher: Mr. Vijay B. Pujari.

			Module/Unit: 1	Sub-units planned
Ionth: Dece	ember Practical's	Total	Introduction	Introduction 1.1 Operating system
ectures 5	02	17		1.2 Types of operating system 1.3 Functions of operating system 1.4 History and development of Linux 1.5 Features of Linux 1.6 Login , logout procedure, Concept of shell, kernel, Kernel-shell relationship
			Module/Unit: 2	Sub-units planned
Month: Jan	nuary		-200-200-200-200-200-200-200-200-200-20	Handling files and directory's
Lectures	Practical's	Total	Handling files and directory's	2.1 Concept of file, types, file system tree 2.2 Different GPU (clear ,ca ⁽⁾ , date, wc, who
15	67	22		2.2 Different GPO (dear, year, year
Month: F	abruary		Module/Unit: 3	Sub-units planned
Lectures	Practical's	Total	VI editor	VI editor 3.1 Vi Editor, use of VI, features of VI 3.3 Different modes and working with VI
15	05	20		editor 3.4 Command mode -cursor movements(k,j,h,l), delete(character, line, word), Screen up , down, use of repeat factor , joining lines (J), searching for pattern (/ and ?) 3.5 Input mode-switching with (l,o,r,s,a,l,O,R,S,A) 3.6 ex mode – saving (w, x, q)
Month:	March		Module/Unit: 4	Sub-units planned
Lectures	T =	Total	Simple Shell programming	Simple Shell programming 4.1 Concept of Shell Script, running a shiscript 4.2 Statements – read, echo, test, if, cas
15	05	20	1-	exit. 4.3 Loops- while, until, for 4.4 Command line arguments 4.5 Exit status of a command



Semester: VI

Department: BCA

Course Title: Java Programming

Name of the teacher: MS. Shivani S. Kagale.

ractical's ractical's ractical's	Total Total 22	Module/Unit: 1 Introduction To Java Module/Unit: 2 Inheritance and Packages Module/Unit: 3 Multithreading and Exception Handling	Introduction To Java 1.1 History and features of Java Programming 1.2 Difference between Java & C++ 1.3 Java Environment 1.4 Java tokens, constants, variables, data types, type casting 1.5 Operators and Expressions 1.6 Implementing Java Program 1.7 Branching and looping statements 1.8 Class, objects, methods 1.9 Constructors and destructor Sub-units planned Inheritance and Packages 2.1 Defining sub class, subclass constructor 2.2 Inheritance-Multiple and hierarchical 2.3 Defining packages, system packages 2.4 Creating & accessing packages 2.5 Adding a class to package 2.6 Polymorphism- function overloading and over ridding, its difference Sub-units planned Multithreading and Exception Handling 3.1 Creating threads, extending a thread
ractical's	Total 22	Module/Unit: 2 Inheritance and Packages Module/Unit: 3	Programming 1.2 Difference between Java & C++ 1.3 Java Environment 1.4 Java tokens, constants, variables, data types, type casting 1.5 Operators and Expressions 1.6 Implementing Java Program 1.7 Branching and looping statements 1.8 Class, objects, methods 1.9 Constructors and destructor Sub-units planned Inheritance and Packages 2.1 Defining sub class, subclass constructor 2.2 Inheritance-Multiple and hierarchical 2.3 Defining packages, system packages 2.4 Creating & accessing packages 2.5 Adding a class to package 2.6 Polymorphism- function overloading and over ridding, its difference Sub-units planned
ractical's 7	Total 22	Inheritance and Packages	1.2 Difference between Java & CV 1.3 Java Environment 1.4 Java tokens, constants, variables, data types, type casting 1.5 Operators and Expressions 1.6 Implementing Java Program 1.7 Branching and looping statements 1.8 Class, objects, methods 1.9 Constructors and destructor Sub-units planned Inheritance and Packages 2.1 Defining sub class, subclass constructor 2.2 Inheritance-Multiple and hierarchical 2.3 Defining packages, system packages 2.4 Creating & accessing packages 2.5 Adding a class to package 2.6 Polymorphism-function overloading and over ridding, its difference Sub-units planned
ractical's 7	22	Inheritance and Packages	1.7 Branching and looping statements 1.8 Class, objects, methods 1.9 Constructors and destructor Sub-units planned Inheritance and Packages 2.1 Defining sub class, subclass constructor 2.2 Inheritance-Multiple and hierarchical 2.3 Defining packages, system packages 2.4 Creating & accessing packages 2.5 Adding a class to package 2.6 Polymorphism-function overloading and over ridding, its difference Sub-units planned
ractical's 7	22	Inheritance and Packages	Inheritance and Packages 2.1 Defining sub class, subclass constructor 2.2 Inheritance-Multiple and hierarchical 2.3 Defining packages, system packages 2.4 Creating & accessing packages 2.5 Adding a class to package 2.6 Polymorphism- function overloading and over ridding, its difference Sub-units planned
ractical's 7	22	Inheritance and Packages	2.1 Defining sub class, subclass constituted 2.2 Inheritance-Multiple and hierarchical 2.3 Defining packages, system packages 2.4 Creating & accessing packages 2.5 Adding a class to package 2.6 Polymorphism- function overloading and over ridding, its difference Sub-units planned
ractical's 7	22	Module/Unit: 3	2.1 Defining sub class, subclass constituted 2.2 Inheritance-Multiple and hierarchical 2.3 Defining packages, system packages 2.4 Creating & accessing packages 2.5 Adding a class to package 2.6 Polymorphism- function overloading and over ridding, its difference Sub-units planned
ary	22	Module/Unit: 3 Multithreading and Exception Handling	2.2 Inheritance-Multiple and the second sec
	Total	Module/Unit: 3 Multithreading and Exception Handling	and Exception Handling
	Total	Multithreading and Exception Handling	Multithreading and Exception Handling
Practical's	Total	Multithreading and Exception	throads pyrending a direct
			class- declaring the class, run()
05	20		method 3.2 Stopping and blocking threads 3.3 Life cycle of thread 3.4 Using thread method
		1 7	3.5 Thread priority
			3.7 Syntax of exception handling code 3.8 Multiple catch statement
			3.9 Using finally statement 3.10 Throwing exception
		26 J. J. W. 144 A	Sub-units planned
ch			- P Introduction
	Total		I MYY I
05	20	AWI	4.1 Introduction to applets 4.2 Building applet code 4.3 Applet life cycle 4.4 Adding applet code to HTML file 4.5 Introduction to Abstract Window Too
	Practical's	Practical's Total	Practical's Total Applets Programming & Introduction AWT



(Mr. s. s. Kale)

Co-ordinator

Department of B.C.A.

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