		- - - -	1	OF SCIENCE, HU Sainikpuri Aut Affiliated	VEKANANDA COLLE MANITIES AND COM , Secunderabad-500094 onomous College to Osmania University HING PLAN 2019-20		
Facul	of the ty: K. athi Devi		nt:Compu cience	Year/Semes	ter: I / I		es per Week: 14 hrs Practicals
To learn ba To learn C To learn A To learn S	ontrol Flow rrays, String tructures, U	statements gs, Function nions, Poin	n,Storage cla	namic Memory Allocations	s,Managing Input and Outpu	it Operations	
S.No	Month & Week	Units		Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	June 3rd Week			Programming Languages, s, Flow charts, High Level s.	Types of Laanguages Macine,Assembly,High Level	Model Demonstration for Variable declaration. Initilization with swapping example.	
2	June 4th Week	1		on, Basic Structure of C Constants, Variables and Data aracter Set,		Chalk and board and LCD presention with sample programmes in Lab Class.	Conducting quiz on these concepts making students involve in concepts
3	July 1st Week	I		Keywords and Identifiers, Variables,		Chalk and board and LCD presention with sample programmes in Lab Class.	Conducting quiz on these concepts making students involve in concepts

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4	July 2nd Week		Data Types, Declaration of Variables(primary type declaration), Assigning Values to Variables,	Programing Implementation with realtime problems.	Chalk and board and LCD presention with sample programmes in Lab Class.	Making students(experts) explain about the concepts in brief
5	July 3rd Week		Defining Symbolic Constants.Operators and Expressions: Arithmetic ,Relational,Logical, Assignment , Increment and decrement , Bitwise ,	Diffrence between Mathematical and C Expression Framming methods.	Chalk and board and LCD presention with sample programmes in Lab Class.	Conducting quiz on these concepts making students involve in concepts
6	July 4th Week		Special ,Evaluation of expressions, Precedence of arithmetic operators.Managing Input and Output Operations: Formatted input statement and Formatted output statement .	Diffrence between Mathematical and C Expression Framming methods.	Chalk and board and LCD presention with sample programmes in Lab Class.	Conducting quiz on these concepts making students involve in concepts
7	July 5th Week	2	Simple if statement, if else statement, Nested-if statements,		Chalk and board and LCD presention with sample programmes in Lab Class.	Group Discussion for identifing Various types of errors and rectification methods.
8	Aug 1st Week		else if ladder, switch statement, conditional operator.	Programing Implementation with realtime problems.	Chalk and board and LCD presention with sample programmes in Lab Class.	Group Discussion for loops
9	Aug 2nd Week		while statement, do statement,		Chalk and board	
10	Aug 3rd Week		for statement, nesting of loops Jumping out of a loop (using break statement), Skipping a part of a loop(using continue	Programing Implementation with realtime problems.	Chalk and board and LCD presention with sample programmes in Lab Class.	more example programs

	Aug 4th		Definition of an array, One-Dimensional	Programing		Making students(experts)
11	and 5th	3	Arrays: Declaration and initialization of	Implementation with	presention with sample	explain about the concepts in
	Week		One-Dimensional Arrays, Two-	realtime problems.	programmes in Lab Class.	brief
12	Sep 1st Week	3 & 4	Definition of a String, Declaring and Initializing String variables, String Handling functions[only built-in functions strlen(),strcpy(),strcat(),strcmp()]	Implementation with	LCD presention with sample programmes in Lab Class.	Group Seminar on functions
13	Sep 2nd Week		Need for User-defined Functions, The form of C functions, Category of Functions: No arguments and no return	Programing Implementation with realtime problems.	LCD presention with sample	Making students(experts) explain about the concepts in brief
14	Sep 3rd Week		Storage Classes (auto, static, register, extern).Structure definition, Giving values to members, Structure initialization, Arrays of	· · · · · · · · · · · · · · · · · · ·	Chalk and board and LCD presention with sample programmes in Lab Class.	More example programs
15	Sep 4th Week	4	Declaring and Initializing pointers, Accessing a variable through its pointer.Different Memory allocation	Programing Implementation with realtime problems.	LCD presention with sample programmes .	Group Discussion for identifing Variables, pointers and uses of pointers
Learning	Outcome	s:		A		
By the time	e students c	ompletes th	he course they can write their own basic c progr	ams.		

Implement different control statements.

Program the concepts of arrays, strings and functions.

Apply the concepts of structures, unions, pointers, preprocessor directives and files.

				TEACHING PLAN 2019-20			
PRC	OGRAM: BCA			PAPER TITLE: FUNDAMENTALS OF INFORMATION TECHNO	LOGY		
	of the Faculty: MALLIKHARJUNA RAO		oartment: uter Science	Year/Semester: I/I		No. of Classes 4 hrs/Th	-
• To edu • To intr	<b>Objectives:</b> Icate students with oduce communicat Part knowledge in a	fundame ion and r	ental knowledge network techno	of operating system & database concepts.		2° - 10	
S.No	Month & Week	Units		Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	June 3rd Week	1		cs : Introduction , Characteristics of a computers f computers (Science , education ,medicine &health care ,banking )	Real time examples	Chalk and board and LCD presention	
2	June 4th Week	1	the computer : ,output unit , c	f computers (Micro ,Mini , Mainframe, Super Computers), system , Components of a computer system —input unit entral processing unit (CPU),Arithmetic /Logic unit(ALU) , rol unit(CU) ,main memory unit , cache memory, memory		Chalk and board and LCD presention	Group discussion on Components of Computer
3	July 1st Week	1	and the second sec	dary storage devices, Instruction set , CISC ction, advantages and disadvantages only).		Chalk and board and LCD presention	
4	July 2nd week	2	Programmi	ng languages: Introduction, program development cycle		Chalk and board and LCD presention	
5	July 3rd week	2	and a second sec	of a good program, types of programming languages embly, High-level languages), Generations of programming		Chalk and board and LCD presention	
6	July 4th week	2	operating system	em: types & functions of O.S ,popular O.S like Windows ages translators ( Compiler , interpreter ,assembler ).Data	Examples on different feasibilities	Chalk and board and LCD presention	Seminar on OS
7	July 5th week	2		Introduction, data versus Information		Chalk and board and LCD presention	
8	August 1st week	2	base definitior	, File oriented approach Vs DBMS approach		Chalk and board and LCD presention	,
9	Augus 2nd week	3	physical data of housing & data	or cepts (Sequential , Direct , indexed sequential) , Data ware mining.		Chalk and board and LCD presention	

1	August 3rd	-	Data Communication and computer networks : Data communications		Chalk and board and	
10	week	3	,components		LCD presention	
11	August 4th week	3	, data transmission mode(Simplex ,half duplex ,full duplex modes)			
12	August 5th week	3	analog and digital data transmission , transmission media-guided media(twisted pair ,Coaxial cable ,optical fibre) & unguided media		Chalk and board	Seminar on Transmissions
13	September- 1st week	3	Asynchronous and synchronous transmission, switching (circuit switching ,packet switching, message switching) types of networks –LAN, MAN, WAN .Network topologies(bus topology, ring topology, star topology, tree topology, mesh topology), Network topologies and Introduction, basic internet terms(website, website, home page, browsers), URL, domain names.	ST E S STRESS - TO	Chalk and board and LCD presention	Group Discussuion on Topologies
14	September- 2nd week	3&4	, hyper text , getting connected to internet , types of internet connections (Dial-up ,ISDN ,cable modem ,leased line ,DSL, broad band ) w.w.w , e-mail ,file transfer protocol(FTP) video conferencing , Computer Security: Definition ,Security threats ,malicious programs ,other destructive programs. Multimedia: introduction		Chalk and board and LCD presention	Seminar on Internet
15	September 4th week	4	building blocks of multimedia, desirable features of multimedia system, multimedia applications, virtual reality ,E-commerce, advantages and		Chalk and board and LCD presention	
			Be familiarized with basic Operating System & Database concepts			
	3	-	t networks &its Components.			
	Be familiari	zed about	t internet and its applications.			

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				BHAVAN'S VIVEKANANDA C			
Faculty	e of the : B.Divya ekha	-	partment: uter Science	TEACHING PLAN 2019 Year/Semester: I/I	-20	No. of Classes (4 hrs/Theory )4	
1. To def 2. To des 3. To und	cribe the fur lerstand dec	c concept to concept t	business areas aking process	in an organization			
PROGRAM		ormatio	h Security Risi	ks,ethical Issues and Human Resource Mnagemen	nt	SUBJECT: ISTA	
Š.No	Month & Week	Units		Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	June 4th Week		Managerial V Management	iew of IS – Functions of Management, role.	Real time examples taken	Chalk and board and LCD presention	Group Discussion
2	July 1st Week	1		nagement, Frame work for IS, Sequence of of IS. Systems – Concepts.		Chalk and board and LCD presention	conducting quiz in these concepts
3	July 2nd Week		feedback,IT a	system, Systems approach to problem solving, nd Business process. Applications of Information nctional business areas.	Real time examples taken	Chalk and board and LCD presention	Group Discussion
4	July 3rd Week		information.	ad Transactions, The value and cost of Decision Levels, Data Capture, Data Quality, unting , Transaction, Processing systems		Chalk and board and LCD presention	conducting quiz in these concepts
5	July 4th Week	2	-	nformation systems – Financial Accounting, oduction, HRM	Real time examples taken	Chalk and board and LCD presention	conducting quiz in these concepts
6	Aug 1st Week			ecision support:Introduction to models- ess and business modeling		Chalk and board and LCD presention	Group Discussion



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Aug 2nd Week	2	Types of Business Models, Group Decision Process, DSS and EIS (Expert Information System).	Real time examples taken	Chalk and board and LCD presention	conducting quiz in these concepts
Aug 3rd Week		Decision in Business Areas - Accounting, Finance, Marketing, Human resource Management.		Chalk and board and LCD presention	Group Discussion
Aug 4th Week		Production and Design.IS planning - Determination of Information requirements, Business	Real time examples taken	Chalk and board and LCD presention	Group Discussion
Sep 1st Week	3	systems planning, End /Means Analysis, Organizing the IS plan,Systems Analysis and Design		Chalk and board and LCD presention	Group Seminar
Sep 2nd Week		System Developmentlife cycle, proto typing, SSAD, project management cost benefit analysis, detailed design ,Implementation.	Real time examples taken	Chalk and board and LCD presention	Group Seminar
Sep 3rd Week		Management Control: Control theory. Control of systems development, control of operations.		Chalk and board and LCD presention	Group Seminar
Sep 4th Week		Responsibilities in distributed data processing	Real time examples taken	Chalk and board and LCD presention	Group Seminar
Sep 5th Wee <b>k</b>		IS Security risks, common controls.	Real time examples tak <b>ę</b> n	Chalk and board and LCD presention	Group Seminar
Oct 1st Week		common threats, IS protection, Ethical issues Societal implications, Social responsibilities.	Real time examples taken	Chalk and board and LCD presention	Group Seminar
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				BHAVAN'S VIVEKANANDA COLLEGE OF SCI Sainikpuri, Secunderabad-500094 Autonomous	College Affiliated to Osma		
3				TEACHING PLA	N 2019-20		
		culty: K.		rtment: Year/Semester:			asses per Week:
	swathi		Compu	ter Science I/II		(4 nrs/ 1 neo	ry )4 hrs Practicals
o learn Fu o learn Inl	sics of ( nctions, heritanc	C++, Control	s, Class an orphism	nd objects, Constructors, destructors			
				Program: B.C.A Subject	<u> </u>		
S.No	Mon th	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1		December 1st Week		C++ Structure I/O Tokens, Data types in C++, Variable- Declaration and initialization.	Added features in C++ compared to C language. Uses of scope resolution operator	Chalk and Board LCD presention with sample programmes in Lab Class.	Group discussion on differences between C and C++ .Conducting quiz on these concepts making students involve in concepts
2	D e c	December 2nd Week	1	Types of operators,Operator precedence,manipulators,typecasting, Expressions and types	Added features in C++ compared to C language. Uses of scope resolution operator	Chalk and Board LCD presention with sample programmes in Lab Class.	Group discussion on differences between C and C++ .Conducting quiz on these concepts making students involve in concept
3	m b e r	December 3rd Week	1	Branching statements, Looping statements, 1D,2D arrays, String- initilization, string Manipulations		Conducting quiz on these concepts making students involve in concepts	Conducting quiz on these concepts making students involve in concept
4	]	December 4th Week		Introduction to Function components,Library functions,Parameter passing		Chalk and Board	Making students(experts) explain about the concepts in brief
5		December 5th Week		Call by value, Call by address, Call by reference, Recursive Functions.		Chalk and board	
6		January 1st Week		Introduction to OOP,Concepts,Benefits and Applications of OOP	Real time examples of objects	LCD(examples), chalk and board	Conducting quiz on these concepts making students involve in concept
7	J a n	January 2nd Week	2	Introduction to Classes and Objects, Specifing a class, object	Live examples of classes and objects	LCD presention with sample programmes in Lab Class.	Seminar on classes and objects

8	u a r y	January 3rd Week		Accessing class members, Inline functions, nesting of member functions.		chalk and board	Assignments
9		January 4th Week		Introduction to Constructors and Destructors, Types of Constructors		chalk and board	
10		January 5th Week		Copy constructors, Destructors, Introduction to Inheritance, Single, Multilevel inheritance		chalk and board	
11		February 1st Week	<b>1</b>	Multiple, Hierarchical inheritance, Function overloading, Introduction to Operator Overloading	Advantages of inheritance	LCD(examples), chalk and board	Seminar on different inheritances
12		February 2nd Week		Overloading with Unary operator, Pointers, Virtual functions		chalk and board	
13	e b r u a	February 3rd Week	4	Templates Introduction, Function Templates Class Templates,		chalk and board	Group Discussion for identifing Various types of errors and rectification methods.
14	r y	February th Week	4	Basics of Exception Handling Class Templates, Basics of Exception Handling		chalk and board	Group Discussion for identifing Various types of errors and rectification methods.
15		February 5th Week	4	Multiple Catch Statements	Examples on exceptions	LCD(examples), chalk and board	Assignments Seminar on exception handling with examples

## Learning Outcomes:

By the time students completes the course they can write their own basic  $c^{++}$  programs.

solve problems using Object Oriented Programming concepts.

Use the concepts of Inheritance and Polymorphism for real time implementation.

Create Templates and learn to write programs using Exception handling.

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				Sainikpuri, Secunderabad-500094			
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				TEACHING PLAN 2019-20			
	e of the Faculty:		tment:	Year/Semester:		No. of Classes per	
	lahesh Kumar	Compute	er Science	BCA I/II (Organizations and Functions)		(4 hrs/Theor	y)
	bjectives:	ihilition of .					
	the roles and responsion delegation, motivation			nt, and various forms of organizations.			
	functions of marketing			s.			
	e financial planning an						
					Additional		Student/
S.No	×	Units			Input/Value	<b>Teaching Method</b>	Learning
	Month & Week			Syllabus	Addition		activity
-	November 5th			d Scope of Management – Meaning of Management,		Chalk and Black Board ,	Discussion of
1	Week			stics of Management, Distinction between Management and		Marker Board	Managemer
			Administra				and
2	December 1st Week			Nanagement, Skills of Management, Importance of ent.Functions and Principles of Management – Classifications	Management	Chalk and Black Board ,	
2	December 1st week			ctions of Management, Managerial and Operative Functions	Skills	Marker Board	
		1		ription of Managerial Functions, Principles of Management,			
3	December 2nd			urteen Principles of Management, Universality of		Chalk and Black Board,	
	Week		Managem	ent.		Marker Board	
			Line and St	taff Organisation, Distinction between Line and Staff,		Challs and Black Baard	
4	December 3rd Week		Conflicts b	etween Line and Staff, Committees, Project Organisation,		Chalk and Black Board , Marker Board	
			Matrix Org	ganisation.			
120						Chalk and Black Board ,	
5	December 4th Week	2	Delegation	and Decentralisation of Authority		Marker Board	
			Mooning	f Decentralisation of Authority, Decentralisation and			
6	January 1st Week			n, Advantages (Need) of Decentralisation, Disadvantages of		Chalk and Black Board ,	
0	January ISC WEEK		Decentrali			Marker Board	
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ary eek ary eek ary eek st Week	3	Management vs Leadership, Formal and Informal Leaders, Significance of Leadership, Functions and Techniques of Leadership, Leadership Styles(Types of Leaders), Qualities of a Good Leader. of the Marketing Concept, Features of the Marketing Concept, Distinction between Marketing and Selling, Marketing Mix – Concept, Elements and Determinants, Meaning of Marketing Channel of Distribution, Types of Distribution Channels, Choice of a Channel Distribution, Choice of Middlemen, Types of Middlemen, Functions and Services of a Wholesaler, Retailer, Types of Retail Consumer Cooperative Stores, Super Market, Hire-Purchase and Instalment Shops, Elimination of Middlemen. Advertising, Salesmanship and Sales Promotion – Meaning and Nature of Advertising, Objectives	Leadership Skills Latest Marketing Communicati	Chalk and Black Board , Marker Board Chalk and Black Board , Marker Board Chalk and Black Board , Marker Board Chalk and Black Board , Marker Board	Group Discussion on Leadership Group Discussion on latest
eek eek eek st Week		Distinction between Marketing and Selling, Marketing Mix – Concept, Elements and Determinants, Meaning of Marketing Channel of Distribution, Types of Distribution Channels, Choice of a Channel Distribution, Choice of Middlemen, Types of Middlemen, Functions and Services of a Wholesaler, Retailer, Types of Retail Consumer Cooperative Stores, Super Market, Hire-Purchase and Instalment Shops, Elimination of Middlemen. Advertising, Salesmanship and Sales Promotion – Meaning and Nature of Advertising, Objectives	Marketing Communicati	Marker Board Chalk and Black Board , Marker Board Chalk and Black Board ,	Discussion on
eek st Week		Channel Distribution, Choice of Middlemen, Types of Middlemen, Functions and Services of a Wholesaler, Retailer, Types of Retail Consumer Cooperative Stores, Super Market, Hire-Purchase and Instalment Shops, Elimination of Middlemen. Advertising, Salesmanship and Sales Promotion – Meaning and Nature of Advertising, Objectives		Marker Board Chalk and Black Board ,	Discussion on
	3	Instalment Shops, Elimination of Middlemen. Advertising, Salesmanship and Sales Promotion – Meaning and Nature of Advertising, Objectives			Discussion on
	5		the second s		
nd Week		Scientific Advertising, Advertising Copy, Themes of Advertisement, Forms of Advertising Media, Choice of Advertising Media, Personal Selling and Salesmanship, Sales Promotions, Techniques of Sales	Latest Advertising Techniques	Chalk and Black Board , Marker Board	×.
rd Week		Objectives of Business Finance, Scope of Financial Management, Financial Planning, Factors Influencing Financial Planning, Requirements of a Sound Financial Plan, Estimating the Capital Needs.		Chalk and Black Board , Marker Board	×.
th Week	4	Fixed Capital, Working Capital.Special Financial Institutions – Objectives and Significance of Special Financial Institutions, Industrial Finance Corporation of India(IFCI), State Financial Corporations (SFCs).		Chalk and Black Board , Marker Board	
ch eek		Industrial Development Bank of India (IDBI Ltd.), Industrial Investment Bank of India (IIBI), Small Industries Development Bank of India (SIDBI), Role of Special Financial Institutions.Techniques of Managerial Control		Chalk and Black Board , Marker Board	
e	h ek <b>tcomes:</b> cepts and	h ek tcomes: cepts and demonst	AFixed Capital, Working Capital.Special Financial Institutions – Objectives and Significance of Special Financial Institutions, Industrial Finance Corporation of India(IFCI), State Financial Corporations (SFCs).h h ekIndustrial Development Bank of India (IDBI Ltd.), Industrial Investment Bank of India (IIBI), Small Industries Development Bank of India (SIDBI), Role of Special Financial Institutions.Techniques of Managerial Controltcomes: cepts and demonstrate skills that are fundamental to organizational development.	A       Fixed Capital, Working Capital.Special Financial Institutions – Objectives and Significance of Special Financial Institutions, Industrial Finance Corporation of India(IFCI), State Financial Corporations (SFCs).         Industrial Development Bank of India (IDBI Ltd.), Industrial Investment Bank of India (IIBI), Small Industries Development Bank of India (SIDBI), Role of Special Financial Institutions.Techniques of Managerial Control         tcomes:       tcomestate skills that are fundamental to organizational development.	A       Fixed Capital, Working Capital.Special Financial Institutions – Objectives and Significance of Special Financial Institutions, Industrial Finance Corporation of India(IFCI), State Financial Corporations (SFCs).       Chalk and Black Board , Marker Board         h       Industrial Development Bank of India (IDBI Ltd.), Industrial Investment Bank of India (IIBI), Small Industries Development Bank of India (SIDBI), Role of Special Financial Institutions.Techniques of Managerial Control       Chalk and Black Board , Marker Board

Inculcate marketing and sales capabilities. Analyze the best financial institutions.

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2				TEACHING PLAN 2019-20	States		
	me of the Fac Srinivasa l	culty:	Departı Compu	ment: Year/Semester: Iter Science I/II		No. of Classes per Week: 4 Hrs Theory & 4 Hrs Practicals	
To ident To intro To learn	tify the diffe oduce proces how to asso	erent mother ssors, power emble a syste	board of supply tem and	nentals of computer, hardware, software and bus structure. components connected to a computer. and power protection systems with backup. I install various drivers and operating systems. basics of boot sequences, methods and startup utilities		P	
	<b>T</b>		<b></b>	Programme: B.C.A -II Semester Subject: I.T Ha		1	
S.No		Month & Week	Units	Syllabus	Additional Input/ Value Addition	Teaching Method	Student/ Learning activity
1	Novembe r	November 5th Week		Unit-I: Overview of computer systems - features and components, Mother board: parts on motherboard	Analog versus Digital Computers	Chalk and Board	Computer Baisc Parts & Types
2	D	December 1st Week		Mother board - Form factors , interface connections Bus:Introduction, types-processor bus, memory bus	Ŕ	Chalk and Board	Practically PCB's Demonstration
3	e c	December 2nd Week	1	Bus- address bus, I/O Buses(PCI, PCI Express, AGP)	Adoptor, Interface Buses	Chalk and Board	BUS shown in Practical Session
4	e m b	December 3rd Week		Bus - Fire wire, USB , Microprocessor-Introduction , Processor specification	64 Bit & Plug n Play Buses	Chalk and Board	Microprocessors Sockets & Slots
5	e r	December 4th Week		Microprocessor – Intel processors basics (8088, 486,P4& i3) Chipsets, Unit-II: Memory –Introduction to System logical memory layout	. 86X familiy (8086, 80286, 80386)	LCD PPT	PGA & SPGA grid Arrays
6		January 1st Week	2	Unit-II: Memory –Introduction to physical memory –Types ROM & RAM, Power Supply -Functions and operation Power Supply - Power protection systems (surge suppressors, line conditioners,	Difference between A.C & D.C voltages	Chalk and Board and LCD PPT	Logical memories Preacautions due to Power Failures of PC

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	7.	J a n	January 2nd Week		backup power-UPS/SPS), Input Devices - Keyboard, keyboard types,Keyboard switch design Input Devices - keyboard interface connectors	Keyboard & Mouse Basics	LCD PPT	Circuit layers & Kyeboard Controller		
	8	u a r y	January 3rd Week	2	Mouse, mouse types and interfaces, Output devices – Touch screen/ Touch pad Output devices – Video Display – Monitors and types, Video card types		LCD PPT	Display Card comparisions		
	9		January 4th Week		Unit-III: Communications - Serial ports, parallel ports, components of LAN- LAN cables, network topologies.	Cable Data Transfer Rate	Chalk and Board	Data Transfer Serial & Parallel		
	10		January 5th Week		Sound card - Applications, installation. Hard Disk Drives - components, operations, interfaces (IDE, SATA, SCSI)	Connectors by Colors	Chalk and Board	Plottres, Sectirs, Tracks of HDD		
	11		February 1st Week	ebruary d Week ebruary	CD-ROM drives -CD technology, specification, storage capacities, and Drive formats.	Compare Optical & Magnetic media	LCD PPT	Plottres, Sectirs, Tracks of Optical Media		
AND AND POINT AND POINT	12	F	February 2nd Week		DVD-Introduction, working principle, storage capacities BD- Blu ray Disc-Introduction, basics of USB	compare CD, DVD & BD	Chalk and Board	CD, DVD & BD Capacities of Data Storage		
	13	b r u a	February 3rd Week			Unit-IV: Building a system - Tools for maintenance, Disassembly and reassembly procedures, Preventive maintenance, Active preventive maintenance,	Review of System Components	LCD PPT & LAB WORK	General Tools for PC	
	14	r y	February 4th Week March 1st Week	4	Preventive maintenance, passive preventive maintenance, Diagnostic tools -POST, IBM Diagnostics	PC- Tools open source or licenced	LCD ppt	Precautions to work on PC		
	15			Diagnostic tools - general purpose diagnostic programs, Disk Diagnostics, Operating systems software,boot process- dos/windows, Anti-virus and troubleshooting	Boot from CD OR HDD	Chalk and Board LCD PPT	Bootstrab Loader System File Names			
			<ul> <li>Learning Outcomes: • Be familiar with computer, hardware, software and bus structure.</li> <li>• Be able to identify the different mother board components connected to a computer.</li> <li>• Be familiar with processors, power supply and power protection systems with backup.</li> <li>• Be able to assemble a system and install various drivers andoperating systems.</li> <li>• Be able to troubleshoot and understand the basics of boot sequences, methods and startup utilities.</li> </ul>							
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са. 19 9) 9)	BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE Sainikpuri, Secunderabad-500094 Autonomous College Affiliated to Osmania University TEACHING PLAN 2019-20												
Na	me of the	Faculty:	Depar	rtment:	TEACHING PLAN 2019-20 Year/Semester:		No. of Classes	per Week:					
	M.Ami			er Science	1/11		4 hrs/Tl	·*					
o familiar o have kn	knowledge ize with p owledge a	e of layers in netw hysical layer and about data link la	media.	perations.	Γο have knowledge about the functionalities α		n n mille						
ROGRAM	I: BCA				* ·	COURSE: DATA CO	DATA COMMUNICATION AND NETWORKING						
SNo	Month	Month & Week	Units		Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity					
1	Nov	Nov 4thWeek			unication, networks, protocols and Layered tasks,OSI model		Chalk and board , LCD presentation						
2	-	Dec 1st Week	1 1	and a state of the state of the state	tocol suite,Addressing. Analog and odic Analog signals,Digital signals	Differences between OSI and TCP/IP	Chalk and board , LCD presentation	seminar conducted					
3	De	Dec 2nd Week	1 & 2	coding(uni digital con	n impairments.Digital to Digital-line polar,polar,bipolar),block codinganalog to version(PCM,DM) nsmission:digital to analog:ASK,PSK,PSK,QAM	Software to demonstrate analog waves	Chalk and board , LCD presentation						
4	e m b e T Dec 3rd Week r			Multiplexii Wavelengt multiplexii	Analog (AM,FM,PM). ng:frequency-division, h-Division Multiplexing,Time -division ng. on media:Guided Media,unguided Media.	Animated video to understand differences between FDM and TDM	Chalk and board , LCD presentation						

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15	March	March	4	link state Algorithm		Chalk and board , LCD presentation	
14	У	Feb 4th Week	4	Distance routing ,link state Algorithm	importance of shortest path	Chalk and board , LCD presentation	
13	a r	Feb 3rd Week	4	Direct and indirect Delivery ,Forwarding techniques,forwarding process,Routing table		Chalk and board , LCD presentation	
12	b r u	Feb 2nd Week	4	Internet protocol:IPV4,Address Mapping (ARP,RARP,BOOTP,DHCP)ICMP	importance of protocols	Chalk and board , LCD presentation	seminar conducted
11	F	Feb 1st Week	4	Logical Addressing:IPV4 Address-Address Space,notation,classful and classless Addressing	differences between IPV4 and IPV6	Chalk and board , LCD presentation	
10		Jan 5th Week	3	Fast ethernet (MAC Sublayer,physical layer) Connecting LANs- connecting devices- Hubs,repeaters,bridges,switches,routers,gateway	components to demonstrate about HUB,ROUTER,	Chalk and board , LCD presentation	practical knowledg about CONNECTING DEVICES
9	У	Jan 4th Week		Internal Exam(CIA-1)			
8	n u a r	Jan 3rd Week	3	Wired LANs-Ethernet:IEEE standards(data link,physical layer)Standard Ethernet(MAC Sublayer,physical layer)		Chalk and board , LCD presentation	
7	J	Jan 2nd Week	3	Datalink control: Framing(fixed,variable size),flow and error control,protocols,noiseless channels,noisy channels(stop and wait automatic repeat req,go-back-N	Differences between protocols	Chalk and board , LCD presentation	practical knowledg about media
6		Jan 1st Week	3	Cyclic codes(CRC ),checksum		Chalk and board , LCD presentation	
<b>`</b> 5		Dec 4th Week	2 & 3	Datagram networks, virtual circuit networks Error detection and correction: introduction, block coding (error detection , correction, hamming distance)	Animated video to understand differences between Virtual Circuit and Datagram		practice examples (line coding)

Learning Outcomes:

• Be familiarized with fundamental concepts and terminologies in networking, seven layers of OSI model and digital transmission.

• Be familiarized with analog transmission, transmission media and know about FDM, TPM. (Multiplexing techniques) and switching networks.

• Acquire a sound knowledge about data link layer functionalities such as error detection, DLL protocols, LANs and connecting LANs.

• Have a thorough anderstanding in functionalities of network layer such as addressing, internet protocols, mapping, forwarding, delivering and routing.

					IVEKANANDA COLLEGE		
			2	TEACHING PLAN 20	9-20(BCA - Operating Systems)		".
Fac N BH Learnin; • To im; • To un; • To un;	derstand a J derstand dif	Cor So edge of o process fferent a	and how it approaches	Year/Seme: ۱۱/۱۱ ystem services before learning how these serv is synchronized and scheduled. of memory management. anization of file system.		No. of Classes p (4 hrs/Theory )4 h	
S.No	Month & Week	Units		Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	June 2nd week		Operating	Systems – Functions, Virtual Computer.	Other Operating System Types and their benefits	Chalk and board.	
2	June 3rd j week	1	System Cal Process Co	System Interface - System Calls, Examples of I Interface. ncept: Processes - Creation, States, Process Process Tables and Process Descriptors.	Examples related to System calls	Chalk and board.	2
3	June 4th week		IPC Patterr	uling Algorithms. ns - Mutual Exclusion, Signaling Producer- Client-Server, Database Access and Update.		Chalk and board.	Student class exercise.
4	July 1st week		Deadlocks,	Conditions for Deadlock, Dealing with Two-Phase Locking. ation, Semaphores, Monitors.	Different systesm go into deadlock, without proper monitoring	Chalk and board.	Case Study in group discussion.
5	July 2nd week		Thread - Co	oncept, System Calls, Advantages and Uses.		Chalk and board.	
6	July 3rd week	2		lanagement - Linking and Loading a Process, nking, Memory Management System Calls.		Chalk and board.	
7	July 4th week		Virtual Me ,Dealing W	emory - Virtual Memory(definition only) ith Fragmentation, Segmentation, Paging, icement Algorithms,		Chalk and board.	
8	July 5th week		Trashing (c only).	lefinition only) and Load Control(definition		Chalk and board.	
9	Aug 1st week		I/O Device Controllers	s - Devices and Controllers, Disk Drives, Disk s.		Chalk and board.	

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10	Aug 2nd		Disk Device Driver Access Strategies, Unification of Files		Chalk and board.		
10	week	2	and Devices, Generalized Disk Device Drivers.				
11	Aug 3rd	5	File System - Need for Files, File Naming, File System	Explantion on different file systems	Chalk and board.		
11	week		Objects and Operations.	of IOS, LINUX.	n		
12	Sep 2nd		File System Organization - File Descriptors, Locating File		Chalk and board.		
12	Week		Blocks on Disk, File System Reliability.				
	Aug 5th			Resource Management – Resources in OS, Types of	Live examples related to real usage	Chalk and board.	
13			Resources, Protection of Resources, User	environment in network systems			
	week		Authentication,	environment in network systems		2A.	
14	Sep 1st	4	Mechanisms for Hardware Protection, Mechanisms for		Chalk and board.		
14	week		Software Protection, Examples of Protection Attacks.				
15	Oct 1st		Client-Server Model - System Processes, Micro-Kernel		Chalk and board.	Group discussion on	
15	Week		OS (definition only), Development towards a Distributed			CASE study.	

Learning Outcomes:

• Be familiarized with the basic Structure of Operating Systems.

• Be equipped with knowledge about process, synchronization and scheduling.

• Be familiarized with the basic functions of Operating Systems such as Process Management and Synchronization, Deadlocks, Memory Management.

• Enhance their knowledge to use Virtual Memory and the structure of most common file systems.

• Be equipped with knowledge about proper allocation of resources by operating system.

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			TEACHING PLAN 2019-20			
Name of the Faculty: D Ramakrishna			ter Science II / III		No. of Classes per Week: 4 hrs Theory	
To lear	•	-	Iodulation Techniques. trol and IEEE Standard 802.11.	en el como de	*	n Bosnika (s. 1977) 19. av 19.
To learn	the function	nalities of	Mobile Network Layer and Mobile Transport Layer.			
To learn	the functior	nalities of	WAP Architecture and Wireless Markup Language Scripting.			
			Program : B.C.A Sub	ject: Mobile Cor	nputing	<u>.</u>
S.No	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	June 2nd Week		Applications, A short history of Wireless Communication, A simplified reference model		Chalk and Black Board	
2	June 3rd Week	1	Wireless transmission - Frequencies for Radio Transmission, Regulations, Signals, Antennas, Signal propagation, Multiplexing,	SDM, FDM, TDM,CDM	Chalk and Black Board	
3	June 4th Week		Modulation, Spread spectrum, cellular systems	ASK, FSK, PSK, AFSK, APSK	Chalk and Black Board	
4	July 1st Week		Medium Access Layer - Motivation for a Specified, Hidden and Exposed Terminals, Near and Far Terminals, SDMA, FDMA, TDMA, CDMA		Chalk and Black Board	
5	July 2nd Week		Wireless LAN - Infrared vs. radio transmission, infrastructure and Ad- hoc Network,		Chalk and Black Board	

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6	July 3rd Week	2	IEEE 802.11 -System Architecture,		Chalk and Black Board	
7	July 4th Week		Protocol Architecuture, Physical Layer, MAC		Chalk and Black Board	× .
8	August 1st Week		MAC Management, HIPERLAN, Blue tooth		Chalk and Black Board	n i mining
9	August 2nd Week		Mobile IP - Goals, assumptions, requirements, Entities and Terminology, IP packet delivery		Chalk and Black Board	
10	August 3rd Week	3	Agent advertisement and discovery, Registration, Tunneling and Encapsulation, Optimizations, reverse tunneling, DHCP, Mobile Adhoc networks, Routing - DSDV - DSR		Chalk and Black Board	
11	August 4th Week	,	Mobile transport Layer - Traditional TCP, Indirect TCP, Snooping TCP, Mobile TCP		Chalk and Black Board	
12	Sept 1st Week		Fast transmit / Fast recovery, Transmission! timeout freezing, transaction oriented TCP		Chalk and Black Board	
13	Sept 2nd Week		Wireless Application Protocol - System Architecuture, WAP architecture, Wireless Datagram Protocol, Wireless Transport Layer	WWW, HTTP, HTML	Chalk and Black Board	
14	Sept 3rd Week	4	Wireless Transaction Protocol, Wireless Session Protocol, Wireless Application Environment,	-	Chalk and Black Board	
15	Sept 4th Week		Wireless Markup Lanuguage , WML Scripts, Wireless Telephony Application,Push Archictecture, Push / Pull Services , i-Mode		Chalk and Black Board	

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Outcomes: Student Will Acquire knowledge on Multiplexing and Modulation Techniques. Acquire knowledge on Medium Access Control and IEEE Standard 802.11. Be familiar with functionalities of Mobile Network Layer and Mobile Transport Layer. Be familiar with functionalities of WAP and Wireless Markup Language Scripting.

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				BHAVAN'S VIVEKANANDA CO TEACHING PLAN 2019-20	And the second		
			PROGRAM: B			STEM ANALYSIS AND LO	
The second s			PARTMENT: Year/Semester:			STEM ANALYSIS AND LOGICAL DESIGN No. of Classes per Week: 4 hrs/Theory	
To underst To underst	and System Anal and identifying a and determining	lysis and I and select system r	Design ing System Dev equirements	elopment Projects d Designing of Interfaces and Dialogues	9 – a die Ganagenerate – e e e 12 – e Olizaer – e aus – i	a a san again a san an na san an	
S.No	Month & Week	Units		Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	June 2nd Week	1		evelopment Environment:Information sis and Design-Application Software-		Chalk and board	
2	June 3rd We <b>e</b> k	1	Oriented Appro	s between Process Oriented and Data bach- Database Application Characteristics of Successful Teams,	Real time examples	Chalk and board and LCD presention	Seminar on types o Information Sytem
3	June 4th Week	1	Application De	Improving Developing: Prototyping, Joint sign, Succeeding as a System Analyst: s for a System Analyst, Definition of a parts		Chalk and board and LCD presention	Group discussion o System analyst responsibilities
4	July 1st Week	1&2		System Concepts(Decomposition, upling, Cohesion), Decomposition		Chalk and board and LCD presention	
5	July 2nd week	2	E-Commerce a	pplication, Identifying and Selecting pment Projects: Internet, E-Commerce,		Chalk and board and LCD presention	Seminar on E- Commerce
6	July 3rd week	2	-	lanning System Development Projects: Initiating and Planning, IS Development		Chalk and board and LCD presention	
7	July 4th week	2	Operational, Se	g Project Feasibility: Economic, Technical, chedule, Legal, Contractual and Political, better Cost Estimating.	Examples on different feasibilities	Chalk and board and LCD presention	Seminar On Feasibility Study

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8	July 5th week	2	Time Value Money, Accessing Technical Feasibility		Chalk and board and LCD presention	
9	August 1st week	2	Project Risk Assessment Factors		Chalk and board and LCD presention	
10	August 2nd week	3	Determining System requirements: Performing Requirement		Chalk and board and LCD presention	
11	August 3rd week	3	Requirements : Interviewing and Listening , Guidelines for Effective Interviewing ,	1 ), ustru tu iu	Chalk and board and LCD presention	Group Discussion Interview Guidelines
12	August 4th	3	Choosing Interview Questions , Interview Guidelines , Administering Questionnaires . Designing		-	
	week		Questionnaires, Interviewing groups. Modern methods for Determining System Requirements: Joint Application Design JAD), Scribe (definition),		Chalk and board	Seminar on JAD
13	September- 1st week	3	Radical methods for System requirements ,Structing System Requirements :Process Modeling Data Flow	Examples on DFD	Chalk and board and LCD presention	Seminar on DFD
15		eek 3	Context Diagrams(Definition), Simple Examples of DFD's		Chalk and board and LCD presention	
14	September- 2nd week	3&4	Incorrect ways and Correct ways to draw Data Flow Diagrams, Four Different types of DFD's Structuring System Requirements: Logic Modeling, Deliverables for		Chalk and board and LCD presention	Group Discussion on Reports &Form
15	September 3rd week	4	Designing Interfaces: System Development Life Cycle with highlighting the Design phase (Diagram), Deliverables and Outcomes, Interface (Definition) ,Interaction Methods & Devices ,Command Language		Chalk and board and LCD presention	
	Be able to iden Be able to dete	tify and se rmine Sys	able to anlyze differents types of skills that are required for elect System Development Projects stem Requirements and draw Data Flow Diagrams Trees and Tables and also able to acquire knowledge on a		l Dialogues	
			And tables and also able to acquire knowledge on the			

BHAVAN'S VIVEKANANDA COLLEGE         TEACHING PLAN 2019-20         Depart       No. of Classes per Week:         ment:       No. of Classes per Week:         Comput       Year/Semester:II/III

Learning Objective:

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• To learn java fundamentals.

• To learn Decision Making and Branching, Looping, Fundamentals of Object Oriented Programming, Class, Objects and Methods

• To learn Arrays, Strings, Vectors, Packages and Interfaces.

• To learn Multi-threaded programs and Exception handling.

Learning Objective:

				Program: BCA Subject: OOP W	ITH JAVA		
	Mont	h&			Additional	Teaching	Student/
S.No	Wee	ek	Units	Syllabus	Input/Value Addition	Method	Learning
1	June 2nd we	ek		<b>Java Evolution:</b> Java Features – How Java differs from C – Java and Internet – Java and World Wide Web – Web Browsers – Hardware and Software Requirements.		Chalk and board and LCD presention with sample programmes in Lab Class.	
2	June week	3rd	I	<b>Overview of Java Language:</b> Simple Java Program – Java Program Structure – Java Statements – Implementing a Java Program – Java Virtual Machine – Command Line Arguments		Chalk and board and LCD presention with sample programmes in Lab Class.	
3	June week	4th		Java Tokens- keywords, Constants, Variables – Data types – Declaration of Variables-Giving Values to Variables- Scope of Variables-Symbolic Constants-Type Casting-Operators-Arithmetic Operators – Relational Operators- Logical Operators – Assignment Operators – Increment and Decrement Operators – Conditional Operators – Bitwise Operators – Special Operators		Chalk and board and LCD presention with sample programmes in Lab Class.	

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4	July 1st week		<b>Decision Making and Branching:</b> Decision Making with if Statement – Simple if Statement-if else Statement-Nesting if else Statement- the else if Ladder-The Switch Statement – The ?: operator.	ж	Chalk and board and LCD presention with sample programmes in Lab Class.	
5	July 2nd week		<b>Looping:</b> The while statement – The do statement – The for statement – Jumps in Loops.		Chalk and board and LCD presention with sample programmes	
6	July 3rd week		<b>Fundamentals of Object Oriented Programming:</b> Object Oriented Paradigm – Basic Concepts of Object Oriented Programming – Benefits of OOP – Applications of OOP.		Chalk and board and LCD presention with sample programmes in Lab Class.	
7	July 4th week		<b>Class, Objects and Methods:</b> Defining a Class – Fields Declaration – Methods Declaration – Creating Objects – Accessing Class	Drogramming with	Chalk and board and LCD presention with sample programmes in Lab Class.	
8	Aug 1st week		Members – Constructors – Method Overloading – Static Members – Nesting of Methods – Inheritance – Overriding Methods – Final Variables and Methods – Final Classes – Abstract Methods and Classes – Visibility Control.Arrays – Strings Vectors – Wrapper Classes – Enumerated Types		Chalk and board and LCD presention with sample programmes in Lab Class.	
9	Aug 2nd week	ш	Interfaces: Multiple Inheritance: Defining Interfaces – Extending Interfaces – Implementing Interfaces – Accessing Interface Variables.		Chalk and board and LGD presention with sample programmes in Lab Class.	
10	Aug 3rd week		Java API Packages – Using system Packages – Naming Conventions – Creating Packages – Accessing a Package		Chalk and board and LCD presention with sample programmes	Seminar on Packages
11	Aug 4th week	-	Using a Package – Adding a Class to a Package – Hiding Classes – Static Import	Programming with real time applications	Chalk and board and LCD presention with sample programmes in Lah Class.	
12	Sep 1st week		Creating Threads – Extending the Thread Class – Stopping and Blocking a Thread		Chalk and board and LCD presention with sample programmes in Lab Class.	

13	Sep 2nd week		Life Cycle of a Thread – Using Thread Methods – Thread ExceptionThread Priority – Synchronization	Chalk and board and LCD presention with sample programmes	discussion on
14	Sep 3rd week	JV	Errors and Exceptions: Types of Errors – Exceptions – Syntax of Exception Handling Code	Chalk and board and LCD presention with sample programmes in Lab Class.	
15	Sep 4th week		Multiple Catch Statements – Using Finally Statement – Throwing our own Exceptions – Using Exceptions for debugging.	Chalk and board and LCD presention with sample programmes in Lab Class.	

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Learning Outcomes:

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• Be familiarized with java fundamentals.

• Develop java programs relating to control statements,

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• Develop java programs relating to Arrays, Strings, Vectors, Packages and Interfaces.

• Develop java programs relating to Multi-threaded programs and Exception handling.

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				BHAVAN'S VIVEKANA	ANDA COLLEGE			
				TEACHING PLAN	2019-20			
	PROGRAM: BCA					PAPER TI	TLE: ARTIFICIAL INTELL	IGGENCE
	ame of the Faculty: N V MALLIKHARJUNA RAO		partment: uter Science	Year/Semester: II/IV		No. of Classes 4 hrs/Th		
• To e • To ir	ng Objectives: ducate students with funtroduce communication mpart knowledge in app	n and netw	vork technologi	operating system & databa es.	ase concepts.	Training of the second se		
S.No	Month & Week	Units		Syllabus		Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	December 1st week	1		Artificial Intelligence –Ove gence What is AI ? The Imp			Chalk and board and LCD presention	
2	December 2nd week	1	Knowledge Bas Knowledge Org	sed Systems, Representatio ganization,	on of Knowledge,		Chalk and board and LCD presention	
3	December 3rd week	1&2		nipulation, Acquisition of k rogramming Languages – I	-	*	Chalk and board and LCD presention	1
4	December 4th week	2		ons, Predicates and condit			Chalk and board and LCD presention	
5	January 1st week	2		quisition: General Concepts	s in Knowledge		Chalk and board and LCD presention	
6	January 2nd week	2	Introductio	n, Definitions, Types of Lea Iodel, Performance Measu			Chalk and board and LCD presention	
7	January 3rd week	3	Knowledge Or	ganization and Manipulatio gies – Introduction, Prelimi	on: Search and		Chalk and board and LCD presention	
8	January 4th week	3	Examples of Se	earch Problems – The Eight Ilem , Means-End Analysis(	Puzzle , Travelling		Chalk and board and LCD presention	
9	January 5th week	3	, Informed Sea	rch - Heuristic Information First Search only			Chalk and board and LCD presention	

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10	February 1st week	4	Natural Language Processing –Introduction		
11	February 2nd week	4	Overview of Linguistics , Level of Knowledge used in Language Understanding (only), natural language systems	Chalk and board	
12	February 3rd week	4	The LUNAR System , The LIFER System, The SHRDLU System.	Chalk and board and LCD presention	
13	February 4th week	4	Expert System Architectures – Introduction , Characteristic Features of Expert Systems , Applications , Importance of	Chalk and board and LCD presention	
14	February 5th week	4	System Architectures , Knowledge Acquisition and Validation	Chalk and board and LCD presention	
15	March 1st week	4	Introduction to knowledge system building tools,Knowledge System Building Tools, KEE(Knowledge Engineering Environment).	Chalk and board and LCD presention	
	Learning Objectives :		ating System & Database concents		

• Be familiarized with basic Operating System & Database concepts

• Get knowledge about networks &its Components.

• Be familiarized about internet and its applications.

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				BHAVAN'S VIVEKANANDA OF SCIENCE, HUMANITIES AND Sainikpuri, Secunderabad Autonomous Colleg Affiliated to Osmania Un TEACHING PLAN 2019	COMMERCE -500094 ge iversity		
	he Faculty: sh Kumar		tment: er Science	Year/Semester: BCA II/IV (GUI Programming and Data St	Year/Semester: BCA II/IV (GUI Programming and Data Structures)		
o learn le o learn a	ollection of o egacy classes pplets , even wing compose Month &	s, utility cla nt handling	-	phics. s and layout manager. Syllabus	Additional Input/Value	Teaching Method	Student/
1	Week Novembe r 5th Week		Applet Basi Simple App Simple Ban Passing Par	mming –Applet class-Two Types of Applets, cs, Applet Architecture, an Applet Skeleton, let Display Methods, Requesting, Repainting, A ner Applet, using Status Window, <applet> Tag, ameters to Applets, Improving Banner Applet, entBase() and getCodeBase()</applet>	Addition	Chalk and Black Board , Marker Board, LCD Projector	Learning activity
2	December 1st Week	1	Event Mod Interface A MouseListe	lling-Two Event handling Mechanisms-Delegation el -Event Classes-KeyEvent Class- Event Listener ctionListener, ItemListener, KeyListener, ener, MouseMotionListener, TextListener, ner,WindowsFocusListerner, WindowListener	Development of customized applications	Chalk and Black Board , Marker Board, LCD Projector	Developing own applications based on concepts
3	December 2nd Week		Handling M	louse Events, Handling Keyboard Events-Adapter	Development of customized applications	Chalk and Black Board , Marker Board, LCD Projector	Developing own applications based on concepts

Classes. AWT Controls: Labels, Buttons, CheckBox

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4	December 3rd Week	T	CheckboxGroup, TextField, TextArea-Understanding Layout Managers-FlowLayout, BorderLayout, GridLayout.	Development of customized applications	Chalk and Black Board , Marker Board, LCD Projector	Developing own applications based on concepts
5	December 4th Week		Introducing GUI Programming with Swing-The Origin of Swing,		Chalk and Black Board , Marker Board, LCD Projector	
6	January 1st Week	2	Swing is built on AWT, Two Key Swing Features, MVC Connection, Components and Containers, Swing Packages, A Simple Swing Application.	Development of customized applications	Chalk and Black Board , Marker Board, LCD Projector	Developing own applications based on concepts
7	January 2nd Week	-	Event Handling, Create a Swing Applet, Painting in Swing, Exploring Swing - JLabel and ImageIcon, JTextField, Swing Buttons - JScrollPane, JButton, JToggleButton, JCheckBox		Chalk and Black Board , Marker Board	Developing own applications based on concepts
8	January 3rd Week		JRadioButton, JTabbedPane, JList, JComboBox, JTable	Development of customized applications	Chalk and Black Board , Marker Board, LCD Projector	
9	January 4th Week		Data Structures Creation and Manipulation in Java —Introduction to Java Collections, Overview of Java Collection Framework - Commonly used Collection of Interfaces- Collection Interface		Chalk and Black Board , Marker Board	

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10	January 5th Week	3	List Interface, Set Interface, SortedSet Interface, Queue Interface, Deque Interface	Development of customized applications	Chalk and Black Board , Marker Board	Developing own applications based on concepts
11	February 1st Week		Commonly used Collection Classes – ArrayList, LinkedList, HashSet		Chalk and Black Board , Marker Board	
12	February 2nd Week		LinkedHashSet, TreeSet, PriorityQueue, ArrayDeque, EnumSet		Chalk and Black Board , Marker Board, LCD Projector	
13	February 3rd Week	4	Accessing a Collection via an Iterator -Iteration over Collections – Iterator Interface, List Iterator Interface-Legacy classes and Interfaces –Vector, Stack, Enumeration Interface.		Chalk and Black Board , Marker Board	*
14	February 4th Week		Other Utility classes: StringTokenizer, Random, Formatter- Constructors, Methods, Formatting Strings and Characters, Formatting Numbers, Formatting Time and Date, Specifiers, Specifying a Minimum Field Width, Specifying Precision		Chalk and Black Board , Marker Board	
15	March 1st Week	4	Using Format Flags, Justifying Output, Space, +,0, and (flags, comma flag,# flag, Uppercase Option, Closing a Formatter, Scanner-Constructor, Scanning Basics, Some Scanner Examples, Setting Delimiters-Introducing Graphics		Chalk and Black Board , Marker Board	
	Learning O Develop pr		Examples, Setting Delimiters-Introducing Graphics sing applets, event handling mechanisms and layout managers.	I		

Develop programs using swing components. Develop programs using Collection of classes. Develop programs using legacy classes, utility classes and graphics.

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					BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE									
			Sai	nikpuri. Se	cunderabad-500094 Autonomous College Affiliated to	o Osmania University								
				. ,	TEACHING PLAN 2019-20	,								
				PRO	GRAM: BCA	PAPER TITLE: DAT	ABASE MANAGEMENT	SYSTEMS						
	e of the l		Co	mputer	Year/Semester:		No. of Classes pe							
	Sharon I		S	cience	II/IV		(4 hrs/Theory )4 hrs	Practicals						
o get equi	nowledg	; ge of database th informatior commands(in	n about	8	dministration									
S.No	Month	Month & Week	Units		Syllabus	Additional Input/Value Addition	Teaching Method	Student, Learning activity						
1	Nov	November 4th Week		Processing	nvironment- Basic Concpets and Definitions, Traditional File Systems, Database Approach, Range of Database s, Advantages of Database Approach, Costs and Risks,	Diffrence between File Processing Systems and Database Approach	Chalk and Board/ LCD Presentations							
2	D	December 1st Week	1	Database D Model- Sar	ts of Database Environment, 3-schema Architecture for Development,3-Tier Database location Architecture, E-R nple E-R Model, E-R Notation, Entities-Types of Entities, Types of Attributes,	E-R Diagram representation along with relevant examples	Chalk and Board/ LCD Presentations	۱						
3	e c m b r	e c m b e r	e c e m	e c e m	e c e m	e c e m	c e m	December 2nd Week		Enhanced I Representi	ps- Degree of Relationship, Cardinality Constraints, E-R Model- Representing Super Type, Sub Type, ng Specialization and Generalization, Specifying ess Constraints, Specifying Disjointness Constraints,	Differences between E-R Model and EER Model	Chalk and Board/ LCD Presentations	Individual Activity or examples
4			December 3rd Week	2	Hierarchies	Subtype Discriminators, Defining Super type/Sub type s, Relational Model- Definitions, Integrity Constraints, ng EER Diagrams into Relations		Chalk and Board/ LCD Presentations						
5	9 December			1	ion: Basic Normal Forms( 1NF, 2NF, 3NF), Merging Denormalization,	How to convert E-R Diagram to its corresponding Relational Model	Chalk and Board/ LCD Presentations							

6 '		January 1st Week		Backing Up Databases and Concurrency control Access- Basic Recovery Facilities- Backup Facilities, Journalizing Facilities, Checkpoint Facility		Chalk and Board/ LCD Presentations	Individual Activity on examples
7		January 2nd Week	3	Recovery Manager, Recovery and Restart Procedures, Switch, Restore/Return, Transaction Integrity. Backward Recovery and Forward Recovery		Chalk and Board/ LCD Presentations usage of ICT tool(College website)	Individual Activity on examples
8	V 1	January 3rd Week		Types of Database Failures, Aborted Transactions, Incorrect Data, System Failure, Database Destruction,	Practical examples	Chalk and Board/ LCD Presentations	
9		January 4th Week		The Problem of Lost Updates, Serializability, Locking Mechanisms- Locking Levels, Types of Locks		Chalk and Board/ LCD Presentations	
10		January 5th Week		Client-Server and Middleware- Client/Server Architectures. 3Tier Architecture-Partitioning, Middleware		Chalk and Board/ LCD Presentations	
11	F	February 1st Week		Establishing Client/Server Security, Client/Server Issues- Distributed Databases- Introduction- Data Replication- Snapshot Replication, Near- Real-Time Replication, Pull Replication, Database Integrity with Replication,	Comparison study between Distributed DBMS and Client- Server System	-	
12		February 2nd Week	4	When to use Replication, Horizontal Partitioning, Vertical Partitioning, Combination of operations, Distributed DBMS: Location Transparency, Replication Transparency, Failure Transparency, Commit Protocol, Concurrency, Transparency		Chalk and Board/ LCD Presentations	
13	r y 2 0	February 3rd Week		Database Administration- Role of data and database administrators: Traditional data administration, Evolving approaches to data and database administration, Evolving apporaches to data administration		Chalk and Board/ LCD Presentations	
14		February 4th Week		Database Administration- Role of data and database administrators: Traditional data administration, Evolving approaches to data and database administration,	Differences between DA and DBA	Chalk and Board/ LCD Presentations	
15		March 1st Week		Evolving apporaches to data administration		Chalk and Board/ LCD Presentations	

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			TEACHING PLAN 2019-20		1	
Na	Name of the Faculty: SRINIVASA P		Department: Computer Science		No. of Classes (4hr/The	277 C
	ning Objectives: • To i	mpart know	vledge of IP address		1	
Prog SNo	ram:BCA Month & Week	Units	Syllabus	II/IV Additional Input/Value Addition	Su Teaching Method	bject: IP Student/ Learning activity
1	June 3 <sup>rd</sup> Week	U N	Protocols and Standards: Protocols, Standards, TCP/IP- Protocol Suite, Addressing.	Practical uses of Data Structures	Chalk and Board	
2	June 4 <sup>th</sup> Week	I T	IP Addressing - Decimal Notation, Classes, Special Addresses, Unicast- Multicast and Broadcast Addresses.Sub Netting	Real time examples	Chalk and Board	
3	June 5 <sup>th</sup> Week	1	and Super Netting – Sub Netting, Masking, Super Netting.Delivery and Routing of IP Packets - Connection Oriented Versus Connectionless Services,Direct	2	LCD Presentations	Assignmen
4	July 1 <sup>st</sup> Week		Versus Indirect Delivery, Routing Methods, Static Versus Dynamic RoutingInternet Protocol -	Real time examples	Chalk and Board	
5	July <sup>2nd</sup> Week	U	unit 2:Datagram	Practical Applications	Chalk and Board	Quiz using ICT tools
6	July 3 <sup>rd</sup> Week	N I T	Fragmentation, Options, Checksum. ARP and RARP –ARP, Packet Format, Encapsulation, Operation, Proxy ARP, RARP Packet Format		Chalk and Board	class room discussion
7	July 4 <sup>th</sup> Week	2	.Internet Control Message Protocol (ICMP) -	Practical Applications	Chalk and Board	
8	July <sup>5th</sup> Week		BGP-Path Vector Routing-Path Vector Messages. Client-Server Model - Concurrency, BOOTP, DHCP.		Chalk and Board	Class Test
9	August 1 <sup>st</sup> Week	U N	Types of Messages, Message Format, Error Reporting, Query.Transmission Control Protocol (TCP) - Process To Process Communication, Services,		Chalk and Board	
10	August 2 <sup>nd</sup> Week	I T	Segment, Options, Checksum, Flow Control, Error Control, Timers, Connection.		LCD Presentations	Assignmen

11	August 4 <sup>th</sup> Week	3	UNIT 3:Routing Protocols: Interior and Exterior routing,RIP-Distance Vector Routing,OSPF- Areas, Metric, Link State Routing, Types of Links.		LCD Presentations	Quiz using ICT tools
12	September 1 <sup>st</sup> Week		Domain Name System (DNS) - Name Space, Domain Name Space, Distribution, DNS in Internet.	Real time examples	Chalk and Board	class room discussion
		U	Telnet- Concepts, NVT, Options, Escape Character, Mode of	Application	LCD	Quiz using
13	September 2 <sup>nd</sup> Week		Operation, User Interface, Rlogin. File Transfer Protocol (FTP)-	Areas	Presentations	ICT tools
14	September 3 <sup>rd</sup> Week	і Т 4	Connections, Communication, Command Processing, File Transfer.Simple Mail Transfer Protocol (SMTP) - User Agent, Addresses, Delayed Delivery, Aliases, MTA, Commands and Responses,		Chalk and Board	Quiz using ICT tools
15	September 4 <sup>th</sup> Week		Mail Transfer Phases, Mime, Pop.Next Generation Ipv6:Ipv6, Addresses, Packet Format, Comparison between Ipv4 and Ipv6 Headers	Real time examples	Chalk and Board	Class Test
	ning Outcomes: • Be fa	miliarized	with fundamental concepts of IP addressing, Subnetting and various ro	outing methods.	L	
	familiarized with Frag					
• Ac	quire the knowledge a	bout TCP op	perations.	8		

• Acquire knowledge on Domain Name System.

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				BHAVAN'S VIVEKANANDA COLLEGE	4			
4		-		TEACHING PLAN 2019-20				
Facu	Name of the Faculty: Department: N Bhaskar Computer Science			Year/Semester: III/V		No. of Classes per Week: (4 hrs/Theory )4 hrs Practica		
Learning	Objectiv	e:						
l.To unde	rstand the	UML feature	res to deve	elop Object-Oriented application development.				
				UML with its features.			and an and the second	
Alter and a same an experimentation of	All providents to an address to the second		and the second	and methods.	n an a tha a chuir an thairmeann a bhann an thair an thair an thair. An	(Marana - 2011) - 1995 - 1995 - 1995 - 1996 - 1996 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19	and a second	
the state of the s	<u> </u>			to applications. D SYSTEM DEVELOPMENT				
nan kana kana kana kana kana kana kana	Month	MONTH & WEEK	n maan ah ka ku		ADDITIONAL INPUT/VALUE ADDITION	TEACHING METHOD	STUDENT LEARNIN G ACTIVITY	
1		June week 2		Introduction, Overview of the Unified Approach. Object-Oriented System Life Cycle - Analysis, Design, Prototyping, Implementation		Chalk & Black Board		
2	J	week 2 June week 3		I *	Component Based Testing. OMT, Booch Methodology, Jacobson Methodology, Patterns.	About UML CASE tool and its features	LCD projector	
3	n e	June week 4		UML Diagrams - Class Diagrams, Use case Diagram		Chalk & Black Board		
4		July Week 1		Interaction Diagram, Sequence Diagram, Collaboration Diagram, State Chart Diagram, Activity Diagram, Component Diagram, Deployment Diagram, Packages.		Chalk & Black Board		
5		July Week 2	п	UML Extensibility - Model Constraints, Note, Stereotype, UML Meta Model.	UML tool for diagrams drawing	Chalk & Black Board		
6		July Week 3		Object Oriented Analysis: Introduction, Business Object Analysis, Use case Modeling. Developing Effective Documentation.		LCD projector	CASE stud	
7	J U I	July Week 4		<b>Object Analysis:</b> Classifications Theory, Common Class Patterns Approach, Use case Driven Approach, Classes, Responsibilities and Collaborators, Naming Classes.		Chalk & Black Board		

8	A u g u s t	August Week 1	ш	<b>Object Relationships, Attributes And Methods -</b> Associations, Super and Sub Class Relationships, A-Part-of Relationship, Class Responsibilities, Defining Attributes.	CASE study on draing use-case diagram	Chalk & Black Board	Test in Unit- 1 and Unit-2
9		August Week 2		<b>Object Oriented Design-</b> Process and Design Axioms - Corollaries.		Chalk & Black Board	Open book system
10		August Week 3		Designing classes - Introduction, Philosophy, Class Visibility.		Chalk & Black Board	Open book system
11		August Week 4		Access Layer - Object Store and Persistence, DBMS, Logical & Physical Database Organizations		LCD projector	Open book system
12	S e p t e m b * e r	September Week 1	IV	Access Control, Client-Server Computing. Distributed Objects Computing		Chalk & Black Board	Open book system
13		September Week 2		Object-Relational Systems, Multi Database Systems. View Layer - User Interface Design, Designing View Layer Classes		LCD projector	
14		September Week 3		View Layer - User Interface Design, Designing View Layer Classes. Macro Level Process, Micro-Level Process.	application in which the UI role is important	Chalk & Black Board	
15		September Week 4		UI Design Rules, View Layer Interface, Prototyping, Software Quality Assurance – Quality Assurance Tests. Testing Strategies, Test Cases, Test Plan.	LCD projector	Chalk & Black <sup>‡</sup> Board	Test in Unit- 3 and Unit-4

BCA V Semester

OOSD Subject Outcomes

\* Students acquire knowledge on UML features.

\* Students are able to draw various UML diagrams for different applications.

\* Students will be familiar with objects relationships, attributes and methods.

\* Student are familar with application quality and security related issues.

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			Bhavan's Vivekanada college			
			TEACHING PLAN 2019-20			
F	me of the aculty: NIVASA P		Department: Computer Science			es per Week: Theory )
		ives: •	To impart knowledge of IP address			
Prog	ram:BCA			III, Additional	/V	a
SNo	Month & Week	Units	Teaching Method	Student/ Learning activity		
1	June 3 <sup>rd</sup> Week	U N	Protocols and Standards: Protocols, Standards, TCP/IP- Protocol Suite, Addressing.	Practical uses of Data Structures	Chalk and Board	
2	June 4 <sup>th</sup> Week	I T	IP Addressing - Decimal Notation, Classes, Special Addresses, Unicast- Multicast and Broadcast Addresses.Sub Netting	Real time examples	Chalk and Board	
3	June 5 <sup>th</sup> Week	1	and Super Netting – Sub Netting, Masking, Super Netting.Delivery and Routing of IP Packets - Connection Oriented Versus Connectionless Services,Direct		LCD Presentatio ns	Assignment
4	July 1 <sup>st</sup> Week		Versus Indirect Delivery, Routing Methods, Static Versus Dynamic RoutingInternet Protocol -	Real time examples	Chalk and Board	
5	July <sup>2nd</sup> Week	UN	unit 2:Datagram	Practical Applications	Chalk and Board	Quiz using ICT tools
6	July 3 <sup>rd</sup> Week	I T	Fragmentation, Options, Checksum. ARP and RARP –ARP, Packet Format, Encapsulation, Operation, Proxy ARP, RARP Packet Format		Chalk and Board	class room discussion
7	July 4 <sup>th</sup> Week	2	.Internet Control Message Protocol (ICMP) -	Practical Applications	Chalk and Board	
8	July <sup>5th</sup> Week		BGP-Path Vector Routing-Path Vector Messages. Client-Server Model - Concurrency, BOOTP, DHCP.		Chalk and Board	Class Test



	August 1 <sup>st</sup>		Types of Messages, Message Format, Error Reporting, Query. Transmission	Real time	Chalk and	
9	Week	U	Control Protocol (TCP) - Process To Process Communication, Services,	examples	Board	
	August	N			LCD	
	2 <sup>nd</sup> Week	1			Presentatio	Assignment
10	2 vveek	Т	Segment, Options, Checksum, Flow Control, Error Control, Timers, Connection.		ns	
	August 4 <sup>th</sup>				LCD	Quiz using
	Week	3	UNIT 3:Routing Protocols: Interior and Exterior routing, RIP-Distance Vector		Presentatio	ICT tools
11	WEEK		Routing, OSPF- Areas, Metric, Link State Routing, Types of Links.	1. s	ns	
	Septembe		Domain Name System (DNS) - Name Space, Domain Name Space, Distribution,	Real time	Chalk and	class room
12	r 1 <sup>st</sup> Week		DNS in Internet.	examples	Board	discussion
	Septembe	U			LCD	Quiz using
	r 2 <sup>nd</sup>	N	Telnet- Concepts, NVT, Options, Escape Character, Mode of Operation, User	Application	Presentatio	ICT tools
13	Week	1	Interface, Rlogin. File Transfer Protocol (FTP)-	Areas	ns	
	Septembe	Т	Connections, Communication, Command Processing, File Transfer.Simple Mail		Chalk and	Quiz using
	r 3 <sup>rd</sup> Week		Transfer Protocol (SMTP) - User Agent, Addresses, Delayed Delivery, Aliases,		Board	ICT tools
14	гэ үүеек	4	MTA, Commands and Responses,		Board	
	Septembe		Mail Transfer Phases, Mime, Pop.Next Generation Ipv6:Ipv6, Addresses, Packet	Real time	Chalk and	Class Test
15	r 4 <sup>th</sup> Week		Format, Comparison between Ipv4 and Ipv6 Headers	examples	Board	
Learn	ning Outcom	nes: • B	e familiarized with fundamental concepts of IP addressing, Subnetting and vari	ous routing meth	ods.	
• Be	familiarized	with F	ragmentation, ARP, SMTP.			
	wire the los	owlode	a shout TCD encretions			

Acquire the knowledge about TCP operations.

Acquire knowledge on Domain Name System.

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		BH	IAVAN'S V	IVEKANAN	NDA COLLEGE OF SCIENCE, HUMAN	ITIES AND COMM	ERCE ,Sainikpuri,	Sec-Bad.		
					TEACHING PLAN 2019-20					
	Name of the Faculty: Department: D.Rama Krishna Computer Science				Year/Semester: III / V		No. of Classes per Week: 4 hrs Theory & 4 hrs Practicals			s
Objective:					• · · · · · · · · · · · · · · · · · · ·					
To learn d To learn cl To learn D To learn X	lient-side HTML.	scripting								
					Programme:B.C.A 543a		Subject:W	eb Technolo	ogies	
S.No	Month	& Week	Units		Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity	Review	Sign
1	June 2nd Wee	ek		UNIT-I: Inti Formatting	roduction, Structure of HTML Page, g Tags.	Internet, Web Browser and Web Server	Chalk and board			
2	June Wee <b>k</b>	3rd	1	Font tag, H text tags	leading tags, Presenting and Arranging	Formatting overall and Scrolling Text	Chalk and board			
3	June Week	4th		Image tag,	Hyperlinks, List tags	Llinking of web pages, Images	Chalk and board			
4	July Week	1st		Table tags,	, Frame tags, MIME, Multimedia tags	Tables and Nested frames	Chalk and board			
5	July Week	2nd			rms, UNIT-II: CSS Style Sheets: on and types of style sheets	Form controls	Chalk and board			
6	July Week	3rd	2		r, Text, Font) properties and values. at Programming: Variables	Data types, Printing statements in java script	Chalk and board			
7	August Week	1st		-	s, Branching StatementsLooping ts, Dialog Boxes.	Conditional and loop statements	Chalk and board			

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8	August 2nd Week		UNIT-III: Arrays, Functions (Built-in)		Chalk and board					
9	August 3rd Week		Java script Objects: String, Math, Date functions	X	Chalk and board					
10	August 4th Week	3	Document, Window, Location, History (each object Properties and Methods,)	ž	Chalk and board					
11	Sept 1st Week	i en esta	<b>DHTML (Dynamic Hyper Text Markup</b> <b>Language)</b> : Events, Event Handling Concept (Mouseover Effects).	Event Handling, compare Static HTML& DHTML	Chalk and board					
12	Sept 2nd Week		<b>UNIT-IV: XML:</b> Introduction, Limitations, Advantages, Valid and Well-formed XML		Chalk and board					
13	Sept 3rd Week	4	XML Elements, XML Control Elements. XML DTD (Document Type Definitions)		Chalk and board	~				
14	Sept 4th Week		XML Namespaces, XML Schema		Chalk and board					
15	Oct 1st week		Document Object Model, XML with CSS		Chalk and board					
Outcomes	::									
Be able to	Students will - Be able to design static webpages. Be able to develop client-side scripting using Javascript.									
Develop a	Develop applications using DHTML.									
Develop X	evelop XML applications with styles.									

D. Remakushina

			BHAVAN'S	VIVEKANANDA COLLEGE		
			OF SCIENCE, H	JMANITIES AND COMMERCE		
			Sainikpur	, Secunderabad-500094		
			Aut	onomous College		
				to Osmania University		
			TEAC	HING PLAN 2019-20		
Name of t	the Faculty:	Denar	tment: Year/Ser	nostor	No. of Class	es per Week:
	sh Kumar		er Science BCA III/V (Advanced			)4 hrs Practicals
	Objectives:				(	
		for conne	cting database through java programming.			
			web applications using java servlets.			
			web applications using java server pages.			
To provide	e knowledge	on usage	of JSTL tags and JSF tags.			
S.No	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
	June 2nd		Getting Started with JDBC: Introducing JDBC-			
1	Week		Describing Components of JDBC, Features of JDBC.		Chalk and Black Board , Marker Board, LCD Projector	
2	Week June 3rd Week	1	Describing Components of JDBC, Features of	e	17 AT.0	
	June 3rd	1	Describing Components of JDBC, Features of JDBC. JDBC Architecture - Types of Drivers, Advantages and Disadvantages of Drivers, Us		Marker Board, LCD Projector Chalk and Black Board , Marker Board, LCD Projector Chalk and Black Board ,	Developing own application based on concepts
2	June 3rd Week June 4th	1	Describing Components of JDBC, Features of JDBC. JDBC Architecture - Types of Drivers, Advantages and Disadvantages of Drivers, Us of Drivers. Implementing JDBC Statements and Methods Statement Interface, PreparedStatement	: Development of customized	Marker Board, LCD Projector Chalk and Black Board , Marker Board, LCD Projector Chalk and Black Board , Marker Board, LCD Projector	based on concepts Developing own application

Javax.ser

Javax.servlet.http package

6	July 3rd Week	2	Servlet Lifecycle, Working with GenericServlet class methods. Understanding Request Processing and HTTP: Understanding Request Dispatching	Development of customized applications	Chalk and Black Board , Marker Board, LCD Projector	Developing own applications based on concepts
7	July 4th Week	-	Dispatching the Request, Working with HttpServletRequest, Working with HttpServletResponse, Describing HttpServlet – The HttpServlet Lifecycle.		Chalk and Black Board , Marker Board	
8	July 5th Week		Handling Sessions in Servlet: Introducing Session Tracking, Describing Cookies, HttpSession.	Development of customized applications	1 N 28 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1	Developing own applications based on concepts
9	August 1st Week		Introduction to JSP : - Advantages of JSP over Servlet , JSP architecture ,		Chalk and Black Board , Marker Board	
10	August 2nd Week	3	JSP Life Cycle. Working with JSP Tags and Implicit Objects: Exploring Scripting Tags	Development of customized applications	Chalk and Black Board , Marker Board	Developing own applications based on concepts
11	August 3rd Week		Exploring Implicit Objects in JSP,Exploring Directive Tags.		Chalk and Black Board , Marker Board	
12	Septembe r 1st Week		Working with JSTL: JSTL Core Tags - General- Purpose Tags, Conditional and Looping Tags		Chalk and Black Board , Marker Board	
13	Septembe r 2nd Week		Networking Tags, JSTL SQL Tags.		Chalk and Black Board , Marker Board	
14	Septembe r 3rd Week	4	Working with JSF: Features of JSF, JSF Architecture, Describing JSF Elements		Chalk and Black Board , Marker Board	
15	Septembe r 4th Week		JSF Request Processing Life cycle, JSF Tag Libraries-JSF HTML Tags.JSF HTML Tags.		Chalk and Black Board , Marker Board, LCD Projector	

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Learning Outcomes:

Develop programs using JDBC.

Develop programs using Java Servlets.

Develop programs using Java Server Pages.

Develop programs using JSTL and JSF Tags.

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4,				BHAVAN'S VIVEKANANDA COLLI TEACHING PLAN 2019-20	EGE		
N	ame of the B.Divya	•	2	Department: Computer Science			No. of Classes per Week: (3 hrs/Theory ) 2 hrs Practicals
To learn d To learn h To learn d To learn t	now to build lifferent pha he configur	cles of testing d software test ases of testin ration of software	sting n g ware n			48446-1 111/441114994499449944944944949494949494	
Progra	m:BCA	Subject	:Soft	tware Testing 3r	d year 6th	sem	
S.No		Month & Week	Unit s	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	Novembe	November 3rd Week		Example test series - first cycle, second cycle, subsequent cycles	*	Individual student activities based on concept	
2	r	November 4thWeek	n i t	Objectives and limits of testing Testing in software development process ,black box testing reporting and analyzing bugs.	Case studies		Conducting seminars on topics
3	_	December 1st Week	1	problem reports contents and characteristics ,analysis of reproducible bug,tactics for analyzing a reproducible bug,making a bug reproducible	Case studies	Chalk and Board/ LCD Presentations	Case studies given basing on concept
4	Decembe	December 2nd Week		Problem tracking systems - objectives, tasks, overview		Individual student activities based on concept	
5	r	December 3rd Week	U n i	users, mechanics, further thoughts on problem reporting	Case studies	LCD Presentations	Case studies given basing on concept

6		December 4th Week	t 2	visible state transitions, race conditions, load testing, error guessing	n ya ku na ku za manu ya ku za ku	<b>Handrad Frankrik (Henrik Kongola (Henrik Kongola (Henrik Kongola (Henrik Kongola (Henrik Kongola (Henrik Kongo -</b>	<b>ALTO HALL IN THE ALTO HALL IN THE INCLUSION ALTO HALL IN THE ALTO HALL IN THE INFORMATION ALTO HALL IN THE INFO</b>																																							
7		January 1st Week		function equivalence testing, regression testing, executing the tests.	Case studies	Chalk and Board/ LCD Presentations	Individual Activity on examples																																							
8		January 2nd Week	U	Building a software testing strategy , determining software testing techniques	Case studies	Chalk and Board/ LCD Presentations																																								
9	January	January 3rd Week	22	Determining software testing techniques ,eleven steps of software testing process		a c c	Individual Activity on examples																																							
10		4th Week	t 3	Overview, Assess project management ,develop test plan,requirement phase testing	Case studies	Chalk and Board/ LCD Presentations	Individual Activity on examples																																							
11		January 5th Week	3	Design phase testing, program phase testing, test execution, acceptance testing		Chalk and Board/ LCD Presentations																																								
12		February 1stWeek	U n i t	Test software changes Software maintenance definition, maintenance characteristics	Case studies		Individual Activity on examples																																							
13		February 2nd Week		n i	maintainability, maintenance tasks, sideeffects, reverse engineering, reengineering	Case studies	Chalk and Board/ LCD Presentations	Conducting seminars on topics																																						
14	February	February 3rd Week																													i			i	i									ı t	Software configuration management ,configuration items.	
15		February 4th Week	4	Software configuration management process, version control, change control, configuration audit, status reporting.	Case studies	Chalk and Board/ LCD Presentations	Conducting seminars																																							
	Outcome	a su a caracter a contra trata a contra activa a contra a	<b>.</b>		nana antono manina ang katala milan kanan ang katalang kata	ana ang ang ang ang ang ang ang ang ang	ene y Zalazione Vikito oraș e raz pendenen e fațina a nor recejunt aneigi tran aneigi trans-eneitiză parte																																							
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		rent phases o	ARTER CONTRACTOR		Photos and the state of the sta	n waaren en een een een een een een een een e	we denote the transferred to the second termination of the																																							
A REAL PROPERTY AND	an a constant of a second s		spinone records	of software management	an na antara ka na 1940 an 1960	nun takan karangan balakaran karangan karangan tahun kara sala bahar kerangan karangan karangan karangan karang	an 1922 mangan sa ang 200 kawa ang 200 kana an ang mga na ang mga na ang mga na ang mga na ang mga ng mga ng mg																																							

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			BHAVAN'S VIVEKANANDA	COLLEGE			
			TEACHING PLAN 2019	9-20			
Name	of the Faculty:		Subject : E-commerce		No. of Cla	sses per Week:	
CH N V N	MALLIKHARJUNA	Depar	tment: Year/Semester:III/VI			s/Theory	
	RAO	Compute	er Science BCA VI Sem (EVEN SEME	STER)	4 11	s/ meory	
Learning (	Objectives:						
1.To unde	rstand impact of E	-commerce	e on Business Model.				
2.To unde	rstand EDI and Risl	ks of Insecu	ire Systems .				
3.To unde	rstand Risk Manag	ement &In	ternet standards .				
4.To unde	rstand Firewalls &	E-payment	systems.				
				Additional		Student/	
S.No	Month & Week	Units	Syllabus	Input/Value	Teaching Method	Learning activity	
		an and the state of the		Addition			
1	December - 1st		E-Commerce: Introduction - E-Business , Potential		Chalk and Board		
	Week		Benefits of E-commerce, The internet and WWW				
2	December -2nd		Overall business and e-commerce goal		Chalk and Board		
	Week		congruence ,the impact of e-commerce on the				
3	December - 3rd	1	The waves of E-commerce, Impact of Ecommerce		LCD presentation		
	Week		on traditional assurance function ,Security of data				
4	December - 4th		Transaction Processing Integrity, privacy of		Chalk and Board	Seminars	
	Week		data,Web seal options.				
5	January -		EDI-Introduction, Traditional EDI System , The		Chalk and Board		
	1st Week		origin of EDI,Non-EDI systems,VAN.				
6	January-		Partially integrated EDI system, Fully integrated		LCD presentation	Seminars	
	2nd Week		EDI system, Benefits of EDI.				
7	January -	2	Data transfer standards, Financial EDI, EDI systems		Chalk and board and LCD		
	3rd Week	-	and the internet. Risks of		presention		
8	January -		Internet associated risks, sabotage by former		Chalk and Board	Seminars and assignments	
	4th Week		employees,Threts from current				
9	January -		Risk Management-Risk management		Chalk and board and LCD	Seminars	
5	5th Week		paradigm, Disaster recovery plans & objectives		presention	Serindis	

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10	February 1st	]	Internet standards-Introduction, standrd setting	Chalk and board and LCD						
	Week	3	issues and committies-ANSI,UN/EDIFACT,Major	presention						
11	February 2nd	3	Internet and www specific committies, security	Chalk and Board	seminars and assignments					
11	Week		committies and organizations security protocols		seminars and assignments					
12	February 3rd		Firewalls-	Chalk and board and LCD						
12	Week		Introduction, Definition, TCP/IP,	presention						
13	February 4th		packet filtering, Network address	Chalk and Board	Seminars					
15	Week		translation, Application level proxies, Real time	Chaik and Board	Seminars					
	February 5th Week		Network topology, Demilitarized zone, factors to							
14		4	consider in Firewall.,E-commerce payment							
	Week	-	Mechanisms-							
	March		interduction the CET contends I. Manuatic strip	Chalk and board and LCD						
15	1st week		introduction, the SET protocol. Magnetic strip	presention	Seminars					
	15t Week		cards,E-checks,E-cash,FSTC & BIPS.							
	Learning Outcor	nes:								
	1.Students will b	1.Students will be able to analyse the role of E-commerce on Independent Third parties & Impact of E-commerce on Business models 2.Students will be able to analyze about EDI & Risks of Insecure systems.								
	2.Students will b									

3.Students will be able to analyze about Risk management & Internet standards.

4.Students will be able to work with Firewalls & Online payment Systems. CANTIN

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## BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE Sainikpuri, Secunderabad-500094

**Department of Computer Science** 

TEACHING PLAN 2019-20									
Name of the Faculty: D Ramakrishna	Department: Computer Science	Subject: System and Network Administration Year/Semester: III / II (VI SEM)	No. of Classes per Week: 3 Hrs Theory						

## Learning Objective:

To learn UNIX Essential Administrative Tools and Techniques, Startup and Shutdown process.

To learn User and Groups Account Management and Managing System Resources.

To learn the Maintaince of File System, Secondary Storage Devices and Backup Techniques.

To learn the functionalities of TCP/IP and E-Mail.

			Programme:B.C.A Subject: System and Netwo	rk Administration		
S.No	Month & Week	Units	Syllabus	Additional Input /Value Addition	Teaching Method	Student/ Learning activity
1 5	November 5th Week		Introduction to System Administration: Thinking about System Administration, Becoming Superuser. Communicating with Users.	su command	Chalk and Black Board	
2	December 1st Week		The UNIX Way: Files – File Ownership – File Protection – Mapping Files to Disk, Interactive Processes – Batch Processes – Daemons	File Types	Chalk and Black Board	Group Discussion on File Protection
3	December 2nd Week	1	Process Attributes, Devices, The Root Directory. Essential Administrative Tools and Techniques: Getting the most from Common Commands Piping into grep and awk - Finding Files - Repeating	find command	Chalk and Black Board	
4	December 3rd Week		Essential Administrative Techniques – Periodic Program Execution: The cron Facility – System Messages, Administrative Log Files. Startup and Shutdown: About the UNIX Boot Process, From Power on to Loading the kernel, Booting to Multiuser Mode - Booting to Single-User Mode		Chalk and Black Board	Discussion on Cron Facility
5	December 4th Week	2	Initialization Files and Boot Scripts, Shutting Down a UNIX System, Troubleshooting: Handling Crashes and Boot Failures. <b>Managing Users and</b> <b>Groups:</b> UNIX Users and Groups – The Password File – The Shadow Password File		Chalk and Black Board	Seminar on Users and Groups

6	December 5th Week		The Group File – Dynamic Group Memberships – User Account Database File Protections, Managing User Accounts – Adding a New User Account – Defining a New User Account – Assigning a Shell, Creating a Home Directory – User Environment Initialization Files – Setting File Ownership		Chalk and Black Board	
7	January 1st Week	2	Disabling and Removing User Accounts, Administering User Passwords – Selecting Effective Passwords. Managing System Resources: Thinking about System Performance, Monitoring and Controlling Processes – The ps command – Other Process Listing Utilities – The /proc File System – Kernel Idle Processes		Chalk and Black Board	
8	January 2nd Week		– Process Resource Limits, Managing CPU Recourses – Nice Numbers and Process Priorities – Monitoring CPU Usage, Managing Memory, Disk I/O Performance Issues – Monitoring Disk I/O Performance – Getting the Most from the Disk Subsystem, Monitoring and Managing Disk Space Usage.	vmstat command	Chalk and Black Board	
9	January 3rd Week		File System and Disks: Filesystem Types, Managing Filesystems – Mounting and Dismounting Filesystems – Disk Special File Naming Conventions – The Mount and Unmount Commands – Figuring out who's using a File		Chalk and Black Board	Group Discussion on File System
10	January 4th Week	3	The Filesystem Configuring File – Automatic Filesystem Mounting – Using fsck to validate a Filesystem, From Disks to Filesystems – Defining Disk Partions – Adding Disks- Logical Volume Managers.		Chalk and Black Board	
11	January 5th Week		Backup and Restore: Planning for Disasters and Everyday Needs – Backup Capacity Planning – Backup Strategies – Backup Media – Comparing Backup Media, Backing Up Files and Filesystem		Chalk and Black Board	Seminar on Backup Media
12	February 1st Week		Backing Up Individual Filesystems with Dump, Restoring Files from Backups – Restores from tar and cpio Archives, Restoring from Dump Archives – Moving Data Between Systems.		Chalk and Black Board	
13	February 2nd Week			Networking Address Class A,B,C and D	Chalk and Black Board	Quiz on TCP/IP Networking
14	February 3rd Week	4	Configuring the Network Interface with Ifconfig. Managing Network Serivices: Managing DNS Servers	Domain Name Types	Chalk and Black Board	
15	February 4th Week	7	Name Server Types, about Bind, Configuring User Mail Programs, Electronic Mail: About Electronic Mall – Mail Addressing and Delivery, Electronic Mail Policies, Configuring User Mail Programs.		Chalk and Black Board	Group Discussion on Electronic Mail Polices

Learning Outcomes: Students will -

Acquire knowledge on UNIX Essential Administrative Tools and Techniques, Startup and Shutdown process. Acquire knowledge on User and Groups Account Management and Managing System Resources. Acquire knowledge on Maintaince of File System, Secondary Storage Devices and Backup Techniques. Be familiar with functionalities of TCP/IP and E-Mail.

BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE								
Sainikpuri, Secunderabad-500094								
Autonomous College								
Affiliated to Osmania University								
TEACHING PLAN 2019-20								
Name of the Faculty:	Department:	Year/Semester:	No. of Classes per Week:					
S Ramana	Computer Science	BCA III/VI (Information Security)	(4 hrs/Theory )					

Learning Objectives:

To learn the need of security for an Information System.

To learn various laws and ethics in Information Security and its risk management factors.

To provide knowledge to plan for security by implementing security technology.

To provide knowledge on various Cryptographic Algorithms and Tools.

S.No	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	November 3rd Week		Introduction to Information Security: History, What is Security?, CNSS Security Model, Components of an Information System		Chalk and Black Board , Marker Board	-
2	November 4th Week	1	Balancing Information Security and Access, The SDLC, The security SDLC.	SDLC Models	Chalk and Black Board , Marker Board, LCD Projector	<b>Discussion</b> on various SDLC Models.
3	November 5th Week		The Need for Security: Introduction, Business Needs First, Threats		Chalk and Black Board , Marker Board	
4	December 1st Week		Attacks- Secure Software Development.		Chalk and Black Board , Marker Board	

5	December 2nd Week		Legal, Ethical and professional Issues in Information Security: Introduction, Law and Ethics in Information Security, Relevant U.S Laws		Chalk and Black Board , Marker Board, LCD Projector		
6	December 3rd Week	2	International Laws and Legal Bodies, Ethics and Information Security.		Chalk and Black Board , Marker Board, LCD Projector		
7	December 4th Week		Z	Risk Management: Introduction, An Overview of Risk Management, Risk Identification, Risk Assessment, Risk Control Strategies		Chalk and Black Board , Marker Board	
8	January 1st Week		Selecting a Risk Control Strategy, Quantitative versus Qualitative Risk Control Practices, Risk Management Discussion Points, Recommended Risk Control Practices.		Chalk and Black Board , Marker Board		
9	January 2nd Week		Planning for Security: Information Security Policy, Standards and Practices		Chalk and Black Board , Marker Board		
10	January 3rd Week	3	The Information Security Blueprint, Security Education, Training and Awareness Program, Continuity Strategies		Chalk and Black Board , Marker Board		
11	January 4th Week		Security Technology-Firewalls and VPNs: Introduction, Access Control, Firewalls, Protecting Remote Connections.		Chalk and Black Board , Marker Board		
12	February 1st Week		Security Technology-Intrusion Detection, Access Control and Other Security Tools: Introduction, Intrusion Detection and Prevention Systems		Chalk and Black Board , Marker Board		
13	February 2nd Week	4	Honeypots, Honeynets, and Padded Cell Systems, Scanning and Analysis Tools, Biometric Access Controls.		Chalk and Black Board , Marker Board, LCD Projector		
14	February 3rd Week		Cryptography: Introduction, Foundations of Cryptology, Cipher Methods	Mechanisms	Chalk and Black Board , Marker Board		
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15	February 4th Week		Cryptographic Algorithms, Cryptographic Tools, Protocols for Secure Communications, Attacks on Cryptosystems.		Chalk and Black Board , Marker Board			
	Learning Outcomes: Be familiar with the priority given to Security in Information System. Acquire knowledge on various Security related laws and risk management in Information System. Acquire knowledge to plan for security by implementing security technology. Be familiar with various Cryptographic Algorithms and Tools.							

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