

Department of Computer Science

BCA I SEMESTER(CBCS)

BCA143: FUNDAMENTALS OF INFORMATION TECHNOLOGY

Academic Organizer for 2018-2019

Month Unit No.	Sub Unit	Details	Periods Per Sub Unit	Total Periods
	a)	Introduction, Characteristics of a computers, applications of computers (Science, education, medicine & health care entertainment, banking) classification of computers (Micro, Mini, Mainframe, Super Computers).	4	
JUNE/ JULY	b)	The computer system, Components of a computer system –input unit, output unit, central processing unit (CPU), Arithmetic /Logic unit(ALU), registers, Control unit(CU), Main memory unit.	4	15
UNIT-I	c)	Cache memory, memory representation , Memory hierarchy $-RAM \&$ its types , ROM $\&$ its types .	3	
	d)	Types of secondary storage devices.	2	
	e)	Instruction set, CISC &RISC(introduction, advantages and disadvantages only).	2	
	a)	Programming languages: Introduction, program development cycle, characteristics of a good program, types of programming languages (Machine, Assembly, High-level languages).	4	
JULY/	b)	Generations of programming languages, features of good programming language. Computer Software: Categories of software(System & Application Software).	3	
AUG UNIT-II	c)	Operating system: types & functions of O.S ,popular O.S like Windows &UNIX ,languages translators (Compiler , interpreter ,assembler).	3	15
	d)	Database fundamentals: Introduction ,data versus Information ,data base definition , File oriented approach Vs DBMS approach , physical data concepts(Sequential ,Direct ,indexed sequential) ,Data ware housing &data mining.	4	
	e)	Data ware housing &data mining.	1	
1	a)	Data Communication and computer networks : Data communications ,components , data transmission mode(Simplex ,half duplex ,full duplex modes) , analog and digital data transmission .	4	r.
AUG/ SEPT	b)	Transmission media-guided media(twisted pair ,Coaxial cable ,optical fibre) & unguided media ,Asynchronous and Synchronous transmission .	2	15
UNIT-III	c)	switching (circuit switching ,packet switching ,message switching).	3	
	d)	Types of networks –LAN ,MAN, WAN .	3	
	e)	Network topologies(bus topology ,ring topology ,star topology ,tree topology, mesh topology).	3	
	a)	The internet : Introduction ,basic internet terms(website ,website ,home page ,browsers) ,URL ,domain names, hyper text , getting connected to internet .	3	
SEPT/	b)	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 .	3	
OCT	c)	Computer Security: Definition ,Security threats ,malicious programs ,other destructive programs.	4	15
UNIT-IV	d)	Multimedia: introduction, building blocks of multimedia, desirable features of multimedia system, multimedia applications.	3]
	e)	Virtual reality. E-commerce, advantages and disadvantages of e-commerce, Electronic Data Interchange (EDI).	2	1
		TOTAL NO OF PERIODS		60

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B.C.A 1st year /1st Sem

BCA142: PROGRAMMING IN 'C'

Academic Organizer 2018-2019

Month Unit No.	Sub Unit	Details	Periods Per Sub Unit	Total Periods
	a)	Introduction – Types of Programming Languages. Algorithms- Flow charts.	2	
June/July I	b)	C' Fundamentals: High Level Languages- Compiling programs – Integrated Development Environment – Language Interpreters –Running the program – Comments	5	15
	c)	C-Tokens – Constants, Variable, Data Types, and Arithmetic Expressions. Operators – types of operators. The printf and scanf functions – type casting. – go to statement.	8	
	a)	Decision making: The if statement – if else construct – Nested if statements – The else if construct.	5	
July/Aug II	b)	switch statement. Looping Statements: The while statement.	5	15
	c)	do statement, for statement, break statement, continue statement, nesting of loops.	5	
	a)	Working with Arrays: Defining an Array – Initializing Arrays –one dimensional Arrays, two dimensional Arrays.	5	
Aug/Sept III	b)	Strings and string functions(built-in functions). Working with Functions: Defining a Function, Types of functions.	5	15
	c)	Formal and Actual parameters. Function calling mechanisms - Call by value and Call by reference. Recursive Functions. Storage Classes(auto, register, extern)	5	
	a)	Working with structures: Defining structure, array of structures, nested structures, arrays within structure. Unions, difference between structure and unions.	5	
Sept/Oct IV	b)	Pointers: Introduction to Pointers, Accessing the address of a variable, Declaring Pointer Variables, Initialization of Pointer Variables, Accessing a variable through its pointer.Dynamic Memory Allocation (Pointers with Memory allocation).	5	15
	c)	The preprocessors: Macro Substitution (The # define statement), File Inclusion (# include - user defined header files).	5	
	•	TOTAL NO OF PERIODS	60	60
of the Lec	turer:	KVB SARASWATHI	67	×

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Name of the Lecturer: KVB SARASWATHI

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B.C.A 1st year /I Sem

BCA145: INFORMATION SYSTEMS THEORY AND APPLICATIONS

Academic Organizer 2018-2019

Unit No.	Sub Unit	Details	Periods Per Sub Unit	Total Periods
JUN/ JULY I	a)	Managerial View of IS - Functions of Management, Management role. Levels of Management.	2	
	b)	Frame work for IS, Sequence of Development of IS.	2	
	c)	Systems - Concepts. Boundaries, Structure, Inputs and Outputs, Subsystems, Interfaces, Environment, working of a System, Systems approach to problem solving, feedback, Control. Strategic uses of IS. Impact of IT, Business Process Reengineering, IT and Business Process.	11	15
8	a)	Operations and Transactions, The value and cost of information, Decision Levels, Role of Accounting Transaction Processing Systems.	5	2
JULY/ AUG II	b)	Operational Information Systems - Financial Accounting, Marketing, Production. Human Resource Management, Models and Decision Support.	5	15
	c)	Introduction to Models- Physical, Process and Business modeling. Types of Business Models,Group Decision Process, DSS and EIS (Expert Information System).	5	
	a)	Decision in Business Areas - Accounting, Finance, Marketing, Human resource Management, Production and Design.	4	
AUG/ SEP III	b)	IS planning - Determination of Information requirements, Business systems planning, End /Means Analysis, Organizing the IS plan	6	15
	c)	Systems Analysis and Design - System Developmentlife cycle, proto typing, SSAD, project management cost benefit analysis, detailed Design, implementation.	5	
	a)	Management Control: Control theory, Control of systems development, control of operations, Auditing, management of technical environment.	3	
SEP/ OCTIV	b)	CEO responsibilities, Allocation of Responsibilities in distributed data processing.	3	15
	c)	IS Security risks, common controls, common threats, IS protection, Ethical issues Societal implications, Social responsibilities.	9	
		60	60	

Name of the Lecturer: K.VAGDEVI

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B.C.A 2nd year /3rd Sem

BCA342: DATA COMMUNICATION AND NET WORKING

Academic Organizer 2018-2019

Unit No.	Unit	Details	Periods Per Sub Unit	Total Periods
	a)	Introduction - Data communications, Networks, Protocols and Standards.	3	
June/ July I	b)	Network Model – Layered Tasks, OSI Model, Layers in the OSI Model, TCP/IP Protocol Suite, Addressing.	7	
	c)	Data and Signals- Analog and Digital, PeriodicAnalog Signals, Digital Signals, TransmissionImpairments.DigitalTransmission - Digital to Digital, Analog to DigitalConversion.	5	15
•	a)	Analog Transmission- Digital to Analog and Analog to Analog.	3	
July/ AugII	b)	Multiplexing –FDM, WDM, TDM. Transmission Media - Guided Media, Unguided Media.	6	15
	c)	Switching - Circuit, Datagram, Virtual Circuit Networks.	6	
	a)	Error Detection and Correction – Introduction, Block Coding, Cyclic Codes, Checksum.	5	
Aug/	b)	Data Link Control –Framing, Flow and Error Control, Protocols, Noiseless Channels, Noisy Channels, HDLC.	4	1.5
SepIII	c)	 Wired and Wireless LANS-Ethernet - IEEE Standards, Standard Ethernet, Changes in the Standard, Fast Ethernet, IEEE 802.11. Connecting LANs - Connecting Devices, Backbone Networks, and Virtual LANs. 	6	15
	a)	Logical Addressing- IPv4 Address, IPv6 Address Internet Protocol – Internetworking, IPv4, IPv6.	5	
Sep/	b)	Address Mapping and Error Reporting- Address Mapping, ICMP.	4	15
	c)	Delivery, Forwarding and Routing- Direct and Indirect Delivery, Forwarding Techniques, Forwarding Process, Routing Table and Unicast Routing Protocols.	6	

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109/05/18 Name of the Lecturer: K.VAGDEVI

BHAVANS VIVEKNANDA COLLEGE

Department of Computer Science

B.C.A 2ndyr/III SEM

BCA 343 Operating Systems

Academic Organizer 2018-2019

Month/ Unit No.	Sub Unit	Details	Periods / subUnit	Total Periods
Jun/July	a)	Operating Systems- Functions, Virtual Computers,Operating System Interface- System calls, Examples of System Call Interface, Process Concept- Processes, Creation, States	6	. 15
UNIT - I	b)	Process Switching, Process Tables and Process Descriptors. CPU Scheduling Algorithms	5	
	c)	IPC Patterns: Mutual Exclusion, Signaling, Producer- Consumer, Client- Server, Data Access and Update	4	
	a)	Deadlock- conditions for deadlock, Dealing with Deadlocks, Two-Phase locking	4	
	b)	Synchronization, Semaphores, Monitors, Thread- Concept, System Calls, Advantages and Uses.	4	
July/Aug UNIT- II	c)	Memory Management- Linking and Loading a Process,Dynamic Linking, Memory Management System Calls. Virtual Memory(Definition Only), Dealing with Fragmentation	5	16
	d)	Segmentation, Paging, Page Replacement Algorithms, Trashing(Definition Only) and Load Control(Definition only)	.3	
	a)	I/O devices- Devices and Controllers, Disk Drives, Disk Controllers	4	
Aug/Sep	b)	I/O System Software, Disk Device Driver Access Strategies, Unification of Files and Devices, Generalized Disk Device Drivers	5	16
Ųnit- III	c)	File System - Need for Files, File Naming, File System Objects and Operations.	4	
	d)	File System Organization - File Descriptors, Locating File Blocks on Disk, File System Reliability.	3	
	a)	Resource Management – Resources in OS, Types of Resources, Protection of Resources,	4	
Sep/Oct UNIT- IV	b)	User Authentication, Mechanisms for Hardware Protection, Mechanisms for Software Protection, Examples of Protection Attacks. Cryptography in Computer Security	6	13
	c)	Client-Server Model - System Processes, Micro- Kernel OS (definition only), Development towards a Distributed System (definition only).	3	
		TOTAL NO OF PERIODS	60	

Name of the Lecturer: N Sharon Rosy, Dept of Comp Sci

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B.C.A 2nd year /3rd Sem

BCA344: OBJECT ORIENTED PROGRAMMING WITH JAVA

Academic Organizer 2018-2019

Month Unit No.	Sub Unit	Details	Periods Per Sub Unit	Total Period s
	a)	Java Evolution: Java Features – How Java differs from C – Java and Internet – Java and World Wide Web – Web Browsers – Hardware and Software Requirements.	5	
JUNE	b)	Overview of Java Language: Simple Java Program – Java Program Structure – Java Statements – Implementing a Java Program – Java Virtual Machine – Command Line Arguments	3	15
/JULY UNIT-I	c)	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.	7	15
	a)	Decision Making and Branching: Decision Making with if Statement – Simple if Statement-if else Statement-Nesting if else Statement- the else if Ladder- The Switch Statement – The ?: operator. Looping: The while statement – The do statement – The for statement – Jumps in Loops.	6	
JULY UNIT-II	b)	Fundamentals of Object Oriented Programming: Object Oriented Paradigm – Basic Concepts of Object Oriented Programming – Benefits of OOP – Applications of OOP.	3	15
	c)	Class, Objects and Methods: Defining a Class – Fields Declaration – Methods Declaration – Creating Objects – Accessing Class Members – Constructors – Method Overloading – Static Members – Nesting of Methods – Inheritance – Overriding Methods – Final Variables and Methods – Final Classes – Abstract Methods and Classes – Visibility Control.		
	a)	Arrays – Strings – Vectors – Wrapper Classes – Enumerated Types	6	
	b)	Interfaces: Multiple Inheritance: Defining Interfaces – Extending Interfaces – Implementing Interfaces – Accessing Interface Variables.	3	

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AUG UNIT-III	c)	Packages: Java API Packages – Using system Packages – Naming Conventions – Creating Packages – Accessing a Package – Using a Package – Adding a Class to a Package – Hiding Classes – Static Import	6^	15
	a)	Multithreaded Programming: Creating Threads – Extending the Thread Class – Stopping and Blocking a Thread – Life Cycle of a Thread – Using Thread Methods – Thread Exceptions – Thread Priority – Synchronization.	7	
SEP UNIT-IV	b)	Exception handling : Managing Errors and Exceptions: Types of Errors – Exceptions – Syntax of Exception Handling Code – Multiple Catch Statements – Using Finally Statement – Throwing our own Exceptions – Using Exceptions for debugging.	8	15
TOTAL NO OF PERIODS			60	60

Name of the Lecturer: K.HIMABINDU

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BCA 3rd Year / 5th Sem

BCA543b: MOBILE APPLICATION DEVELOPMENT (ELECTIVE-I)

ACADEMIC ORGANIZER 2018-2019

Month	Unit	Sub	Details	Periods Per	Total								
	No	Unit		Sub Unit	Periods								
			Hello Android: Android isn't,	2									
		a)	Android: An Open Platform for Mobile Development	2									
			Native Android Applications										
		b)	Android SDK features Android Run on	2									
	1												
		c)	Introducing the Development Framework Understanding the Android Software Stack	3									
			The Dalvlk Virtual Machine										
		d)	Android Application Architecture	1									
June /		u,	Android Libraries	-									
July	1		Getting Started: Developing for Android		15								
July		e)	Creating your First Android Application	3									
			Types of Android Applications										
		f)	Developing for Mobile and Embedded Devices	1									
			Developing for Android										
		g)	Android Development Tools	1									
			The Android Virtual Device Manager										
										h)	Android SDK Manager	1	
					The Android Emulator		1						
		i) The Android Debug Bridge	1										
			Creating Applications and Activities: Introduction the Application Manifest										
		a)	File	2									
				2	-								
			Using the Manifest Editor Externalizing Resources										
\cup		b)	Creating Resources Layouts –Animations – Menus	2									
		50.0		Aŭ	Al	• 81.1	•	. 81	•		Using Resources, Using System Resources		
										c)	The Android Application Lifecycle		
												1	
		d)	Understanding an Applications Priority and its Process States										
		d)	Introducing the Android Application Class Overriding the Application Lifecycle Events	1									
July /	Ш		A Closer Look at Android Activities		13								
Aug		e)	Creating Activities	2	13								
		()	The Activity Lifecycle	2									
		f)	Building User Interfaces: Fundamental Android User Interfaces (UI) Design										
			Android UI Fundamentals	1									
		g)											
			Assigning UI to Activities										
		h)	Introducing Layouts – Defining Layouts, Using Layouts to Create Device Independent UI	2									
		h)		1									
			The Android Widget Toolbar	I									
		i)	Creating New Views Modifying Existing Views	1									
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BCA 3rd Year / 5th Sem

BCA543b: MOBILE APPLICATION DEVELOPMENT (ELECTIVE-I)

ACADEMIC ORGANIZER 2018-2019

Month	Unit No	Sub Unit	Details	Periods Per Sub Unit	Total Periods
Aug	Ш	j)	Introducing Adapters Introducing Some Native Adapters Customizing the Array Adapter	2	2
		a)	Using Adapters to Bind Data to a View Intents and Broadcast Receivers: Introducing Intents Using Intents to Lunch Activities	2	
		b)	Introducing Linkify Using Intents to Broadcast Events	- 3	
	800	c)	Introducing the Local Boardcast Manager Introducing Pending Intents	- 1	
Aug / Sep	III	d)	Using Internet Resources: Downloading and Parsing Internet Resources Connecting to an Internet Resources Parsing XML using the XML Pull Parser	3	15
		e)	Using the Download Manager Downloading Files Customizing Download Manager Notifications Specifying a Download Location Cancelling and Removing Downloads	4	
		f)	Using Internet Services.	2	1
		a)	Databases and Content Providers: Introducing Android Databases SQLite Databases Content Providers	2	
•		b)	Introducing SQLite Content Values and Cursors	2.	
Sep /	IV	c)	Working with SQLite Databases Introducing the SQLiteOpenHelper Opening and Creating Databases without the SQLiteOpenHelper Android Database Design Consideration Querying a Database Extracting Values from a Cursor	4	15
		d)	Adding, Updating and Removing Rows – Inserting Rows – Updating Rows – Deleting Rows	3	
		e)	Creating Content Providers – Registering Content Providers Publishing your Content Provider's URI Address Creating the Content Provider's Database Implementing Content Provider Queries Content Provider Transactions Storing Files in a Content Provider A Skelten Content Provider Implementation	4	
		1	A Skelton Content Provider Implementation Total	60	60

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B.C.A 3rd year /5th Sem - IP Academic Organizer 2018-2019

Month Unit No.	Sub Unit	Details	Periods Per Sub Unit	Total Period s
	a)	Protocols and Standards: Protocols, Standards, TCP/IP- Protocol Suite, Addressing.	5	
June/July Unit-I		IP Addressing - Decimal Notation, Classes, Special Addresses, Unicast- Multicast and Broadcast Addresses.Sub Netting and Super Netting – Sub Netting, Masking, Super Netting.Delivery and Routing of IP Packets - Connection Oriented Versus Connectionless Services,	8	15
	c)	Direct Versus Indirect Delivery, Routing Methods, Static Versus Dy	2	
July/Au g	a)	Internet Protocol - Datagram, Fragmentation, Options, Checksum. ARP and RARP –ARP, Packet Format, Encapsulation, Operation, Proxy ARP, RARP Packet Format.	8	15
Unit-II	b)	Internet Control Message Protocol (ICMP) - Types of Messages, Message Format, Error Reporting, Query.	2	
	c)	Transmission Control Protocol (TCP) - Process To Process Communication, Services, Segment, Options,	5	
	a)	BGP-Path Vector Routing-Path Vector Messages.	7	
Aug/Sep t	b)	Client-Server Model - Concurrency, BOOTP, DHCP.	5	15
Unit-III	c)	Domain Name System (DNS) - Name Space, Domain Name Space, Distribution, DNS in Internet.	3	
Sant	a)	Telnet- Concepts, NVT, Options, Escape Character, Mode of Operation, User Interface, Rlogin. File Transfer Protocol (FTP)-Connections, Communication, Command Processing, File Transfer.		
Sep/ Oct Unit-IV	b)	Simple Mail Transfer Protocol (SMTP) - User Agent, Addresses, Delayed Delivery, Aliases, MTA, Commands and Responses, Mail Transfer Phases, Mime, Pop.	4	15
	d)	Next Generation Ipv6:Ipv6, Addresses, Packet Format, Comparison between Ipv4 and Ipv6 Headers	4	
-	1. K	TOTAL NO OF PERIODS	60	60

Name of the Lecturer: P.SRINIVASA

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Bhavans Vivekananda College

Department of Computer Science B.C.A V Semester, Advanced Java Programming

Academic Organizer 2018-2019

Month	Unit No.	Sub Unit	Details	Periods Per Sub Unit	Total Period s
		a)	Introducing JDBC: Describing Components of JDBC, Features of JDBC	3	
June/July	I	b)	JDBC Architecture: Types of Drivers, Advantages and Disadvantages of Drivers, Use of Drivers	4	15
•		c)	JDBC Statement and Methods: Statement Interface, PreparedStatement Interface	5	Ċ.
		d)	CallableStatement Interface, Working with ResultSet Interface.	3	
		a)	Introducing CGI, Introducing Java Servlet, Advantages of Servlet over CGI, Features of Servlet	2	
		b)	Introducing Servlet API - Javax.servlet package, Javax.servlet.http package	2	
July/Aug	II	c)	Servlet Lifecycle ,Working with GenericServlet class methods, HttpServlet , Understanding Request Dispatching ,Dispatching the Request, Working with HttpServletRequest, Working with HttpServletResponse, Describing HttpServlet- The HttpServlet Lifecycle.	7	15
		d)	Session in Servlet - Introducing Session Tracking, Describing Cookies, HttpSession.	4	
Aug/Car	111	a)	Introduction to JSP - Advantages of JSP over Servlet , JSP architecture , JSP Life Cycle	7	15
Aug/Sep	111	b)	Exploring Scripting Tags, Exploring Implicit Objects in JSP, Exploring Directive Tags.	8	15

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Bhavans Vivekananda College

Department of Computer Science B.C.A V Semester, Advanced Java Programming Academic Organizer 2018-2019

Month	Unit No.	Sub Unit	Details	Periods Per Sub Unit	Total Period s
*		a)	JSTL Core Tags - General-Purpose Tags, Conditional and Looping Tags, Networking Tags, JSTL SQL Tags.	7	а Ф.
Sep/Oct	IV	b)	Working with JSF - Features of JSF, JSF Architecture, Describing JSF Elements, JSF Request Processing Life cycle, JSF Tag Libraries, JSF HTML Tags.	8	15
•			TOTAL NO OF PERIODS	60	60

G.M

D. Ramalaishua

Bhavans Vivekananda College Department of Computer Science BCA V SEMESTER BCA543: OBJECT ORIENTED SYSTEM DEVELOPMENT

ACADEMIC ORGANIZER 2018-2019

Unit No	Sub Unit	Details	Period Topic Wise	Total Periods
		Introduction to CASE tool and its advantages		
	а	Introduction to OOSD.	4	
		overview of Unified Approach	1	
		OOSD Life Cycle and its stages.		
	b	Problem Analysis	- 4	
JUNE/JULY		Problem solution design		45
UNITI	С	Implementation	2	15
		Object oriented methodologies		
	d	Booch, Jacobson and Rumbaugh methodologies.	3	
		Unified Approach		
		Layered Approach UML		
	е	Object Modeling Techniques	2	
		UML Diagrams		15
	а	Class Diagram	- 4	
1 1		Interaction Diagrams		
		Packages		
	b	UML extensibility features	4	
JULY/AUG		Notations used for UML diagrams	- 1	
UNIT II		UML meta data		
	С	Object Oriented Analysis	- 3	
		Business object analysis		
	d	Usecase modeling	- 3	
	е	Effective Document and rules to develop a document	1	
		Object Analysis		
		Classification theory	- 2	
	а	Noun phase approach		
		Common class patterns	1 1	
1		Use Case driven approach		
		Classes, responsibilities and collaborations		
	b	Class naming	- 3	
		Object relationships	1 1	
		Associations		
AUG/SEPT		super and sub class relationships	1 1	
UNIT III	c	A-Part relationship	3	15
		Class responsibilities	1 1	
		Object Oriented Design	1 1	
+ †		Design axioms		
		Corollaries	1 1	
		design patterns	1	
	d	Class design rules	4	
		class visibility	- 4	
		class attributes and methods design		
		designing methods and protocols		

		Access Layer Design		
	а	Object persistence	2	
		DBMS and models		
	b	client/server computing	3	
	D	distributed object computing COM, DCOM, ACTIVE X CONTROLS	5	
		OODBMS and its importance		
		Multi database systems		15
SETP/OCT	с	View Layer	4	
UNIT IV		User interface design	4	
		Designing view layer classes		
		Macro level process		
		Micro level process design		
		UI design Irules		
	d	view layer interface & prototyping	4	
		Quality assurance test, Testing strategies		
		Test cases, test plans and continuous testing		
3				60

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N. Bhoker Name Athe Lecturer: Mr. N. Bheskar

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		culty: K.		rtment: Year/Seme	ester:		lasses per Week:	
	swathi		Comput	er Science I/II		(4 hrs/Theory)4 hrs Practicals		
To learn Fu To learn Inl	sics of nctions heritan	C++, Control	cs, Class a orphism	nd objects, Constructors, destructors				
				Program: B.C.A S	Subject: Program in C++			
S.No	Mon th	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity	
1		December 1st Week December 2nd Week		C++ Structure I/O Tokens, Data types in C++, Variab 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 concept	
2	D e c e			1	Types of operators,Operator precedence,manipulators,typecasting, Expressions an	Added features in C++ compared to C language. d types 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 arr String- initilization, string Manipulations	ays,	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, Rec Functions.	cursive	Chalk and board	5	
6		January 1st Week		Introduction to OOP,Concepts,Benefits and Applicat OOP	ions of Real time examples of objects	LCD(examples), chalk and board	Conducting quiz on these concepts making students involve in concep	

7		January 2nd Week	2	Introduction to Classes and Objects, Specifing a class, objects	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	4	Multiple,Hierarchical inheritance, Function overloading, Introduction to Operator Overloading	Advantages of inheritance	LCD(examples), chalk and board	Seminar on different inheritances
12	F	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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BHAVAN'S VIVEKANANDA COLLEGE								
TEACHING PLAN 2018-19								
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Name of the Faculty:	Department:	Year/Semester:	No. of Classes per Week:					
G Mahesh Kumar C	Computer Science	BCA I/II (Organizations and Functions)	(4 hrs/Theory)					

Learning Objectives:

To introduce the roles and responsibilities of management, leadership and motivation theories.

To impart knowledge in financial management, investment decisions, and decision making.

To impart knowledge in planning and controlling of projects, manufacturing process.

To acquire knowledge on market and product information.

S.No	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	November 3rd Week		Management – Definition, types of managers, responsibilities, tasks.		Chalk and Black Board , Marker Board	
2	November 4th Week	1	Leadership and Motivation – nature of leadership, leadership theories, delegation, defining motivation, motivation theories, defining needs,	Leadership Skills	Chalk and Black Board , Marker Board	Group Discussion on Leadership and Motivational aspects.
3	November 5th Week		Time Management – importance of time, characteristics of management tasks, determining		Chalk and Black Board , Marker Board	
4	December 1st Week		Organization – definition, structures, quality, organizational change, managing change.		Chalk and Black Board , Marker Board	
5	December 2nd Week		Financial Management – Financial Environment- basics, financial accounts, profitability, budgets and		Chalk and Black Board , Marker Board	
6	December 3rd Week	2	Investment Decisions – definition, ranking process, payback period		Chalk and Black Board , Marker Board	
7	December 4th Week	2	average rate of returns, discounted cash flows.		Chalk and Black Board , Marker Board	
8	January 1st Week		Decision Making – The nature of decisions, decision making process, decision making techniques.		Chalk and Black Board , Marker Board	
9	January 2nd Week		Project and Operations Management – Project Planning and Control – projects and management		Chalk and Black Board , Marker Board	

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10	January 3rd Week	3	network analysis, critical path, Gantt chart,Manufacturing Operations – manufacturing environment, experience curve,		Chalk and Black Board , Marker Board						
11	January 4th Week		manufacturing technology,global operations, logistics, design, quality.		Chalk and Black Board , Marker Board						
12	February 1st Week		Marketing and Sales Management- Markets and Marketing- market, marketing information		Chalk and Black Board , Marker Board						
13	February 2nd Week	4	4	4	4	4	market segmentation, consumer and industrial markets.		Chalk and Black Board , Marker Board		
14	February 3rd Week						4	4	4	4	4
15	February 4th Week		marketing communications, sales, physical distribution.	Latest Marketing Communication	Chalk and Black Board , Marker Board	marketing communication techniques.					
	Learning Outcomes: Analyze concepts and demonstrate skills that are fundamental to organizational development and leadership. Be able to plan and control projects. Be able to make best decisions for investments. Be ready to do marketing and sales with respective to products.										

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	с.			Sainikpuri, Secunderabad-500094 Department of Com TEACHING PLAN 2018-19	38	2	
	me of the Fac Srinivasa	culty:	Departr Comput Science	ter I/II			es per Week: 4 Hrs Practicals
To ident To intro To learn	tify the diffe duce proces how to ass	erent mother ssors, power semble a syst	board supply tem and	nentals of computer, hardware, software and bus structure. components connected to a computer. and power protection systems with backup. d install various drivers and operating systems. basics of boot sequences, methods and startup utilities			
				Programme: B.C.A -II Semester Subject: I.T Ha	rdware		
S.No		Month & Week	Units	Syllabus	Additional Input/ Value Addition	Teaching Method	Student/ Learning activity
1	Novemb er	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		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			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		Logical memories, Preacautions due to Power Failures of PC

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			 Learning Outcomes: • Be familiar with computer, hardware, software and bus structure. Be able to identify the different mother board components connected to a computer. Be familiar with processors, power supply and power protection systems with backup. Be able to assemble a system and install various drivers andoperating systems. Be able to troubleshoot and understand the basics of boot sequences, methods and startup utilities. 								
	15		March 1st Week		Diagnostic tools - general purpose diagnostic programs, Disk Diagnostics, Operating systems software,boot process- dos/windows, Anti-virus and troubleshooting	OR HDD	Chalk and Board LCD PPT	Bootstrab Loader System File Names			
	14	r y	February 4th Week	- 4	4	Preventive maintenance, passive preventive maintenance, Diagnostic tools -POST, IBM Diagnostics	PC- Tools open source or licenced	LCD ppt	Precautions to work on PC		
	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			
	12	F e	February 2nd Week	k y		DVD-Introduction, working principle,storagecapacities BD- Blu ray Disc-Introduction, basics of USB	compare CD, DVD & BD	Chalk and Board	CD, DVD & BD Capacities of Data Storage		
	11		February 1st Week		CD-ROM drives -CD technology, specification, storage capacities, and Drive formats.	Compare Optical & Magnetic media	LCD PPT	Plottres, Sectirs, Tracks of Optical Media			
	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			
	9	J	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			
	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			
	7	J a n	January 2nd Week	0.	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			

				BHAVAN'S VIVEKANANDA COL	LEGE				
				TEACHING PLAN 2018-19					,
PROG	RAM: BCA		B. Constanting of the second sec	50 C	COURSE	: DATA COMMUNIC	ATION AND NET	WORKING	
Name of the Faculty: M.Amitha			Department: Computer Science	Year/Semester: I/II	No. of Classes per Week: 4 hrs/Theory				
To im To far To ha	miliarize with ve knowledg	dge of la physica e about	yers in networking. al layer and media. data link layer and operation the functionalities of network						
SNo	Month & Week	Units		Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity	Review	Sign
1 1	Nov 3rd Week		Datacommunication, net tasks, OSI model	works, protocols and standards.Layered		Chalk and board and LCD presentation			
2	Nov 4th Week	1	TCP/IP protocol suite,Ad signals,Digital signals	dressing. Analog and Digital,periodic Analog	Differences between OSI and TCP/IP	Animated video (OSI \$ TCP),Chalk and board and LCD presentationand Software to demonstrate analog waves		~	
3	Nov 5th Week		Tansmission impairments coding(unipolar,polar,bip			Chalk and board and LCD presentation	practice examples (line coding)		
4	Dec 1st Week		analog to digital conversi analog:ASK,PSK,PSK,QAN	on(PCM,DM)2Analog transmission:digital to		Chalk and board and LCD presentation			
5	Dec 2nd Week			1,PM).Multiplexing:frequency- sion Multiplexing,Time -division multiplexing.		Chalk and board and LCD presentation			
6	Dec 3rd Week	1 &2	Transmission media:Guid switched networks	ed Media, unguided Media. Switching: Circuit		components to demostrate types of media,Chalk and board and LCD presentation	practical knowledge about media	:	
7	Dec 4th Week			lock coding(error detection		Chalk and board and LCD presentation			
8	Jan 1st Week			sum,Data link control:Framing(fixed,variable rol,protocols,noiseless channels,		Chalk and board and LCD presentation			

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9	Jan 2nd Week		noisy channels(stop and wait automatic repeat req,go-back-N automatic,selective repeat,piggybacking),HDLC.		Chalk and board and LCD presention			
10	Jan 3rd Week	2&3	Wired and Wireless LANs-Ethernet:IEEE standards(data link,physical layer)Standard Ethernet(MAC Sublayer,physical layer)		Chalk and board and LCD presentation			
11	Jan 4th Week		changes in the standard:bridged,switched,full-duplex ethernet)Fast ethernet (MAC Sublayer,physical layer)	2	Chalk and board and LCD presentation			
12	Feb 1st Week		Wireless LANs:IEEE 802.11 (Architecture,MAC sublayer,Addressing ,physical layer) connecting devices, backbone networks		HUB.ROUTER.bridges.s	practical knowledge about		
13	Feb 2nd Week		virtual LANs,4 Logical Addressing:IPV4 Address,IPV6 Address,internetworking		Chalk and board and LCD presentation			
14	Feb 3rd Week	3 & 4	Internet protocol:IPV4,IPV6.Address Mapping (ARP,RARP,BOOTP,DHCP)ICMP		Chalk and board and LCD presentation			
15	Feb 4th Week/ March		Direct and indirect Delivery ,Forwarding techniques,forwarding process,Routing table ,Unicast routing protocols(Optimization,intra and interdomain,Distance,link state,path vector)		Chalk and board and LCD presentation			
	Eearning 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, TDM. (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 understanding in functionalities of network layer such as addressing, internet protocols, mapping, forwarding, delivering and routing.

BHAVAN'S VIVEKANANDA COLLEGE							
TEACHING PLAN 2018-19							
Name of the Faculty:	Department:	Year/Semester:	No. of Classes per Week:				
G Mahesh Kumar	Computer Science	BCA II/II/(GUI Programming and Data Structures)	(4 hrs/Theory)4 hrs Practicals				

Learning Objectives:

To learn Collection of classes.

To learn legacy classes, utility classes and graphics.

To learn applets , event handling mechanisms and layout manager.

To learn swing components.

S.No	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	November 3rd Week		GUI Programming –Applet class-Two Types of Applets, Applet Basics, Applet Architecture, an Applet Skeleton, Simple Applet Display Methods,		Chalk and Black Board , Marker Board, LCD Projector	
2	November 4th Week		Event Handling-Two Event handling Mechanisms- Delegation Event Model -Event Classes-KeyEvent Class- Event Listener Interface ActionListener,	2	Marker Board 1(1)	Developing own applications based on concepts
3	November 5th Week	1	Handling Mouse Events, Handling Keyboard Events- Adapter Classes. AWT Controls: Labels, Buttons, CheckBox	Development of customized applications	Marker Board 1(1)	Developing own applications based on concepts
4	December 1st Week		CheckboxGroup, TextField, TextArea-Understanding Layout Managers-FlowLayout, BorderLayout, GridLayout.	Development of customized applications	Marker Board 1(1)	Developing own applications based on concepts
5	December 2nd Week		Introducing GUI Programming with Swing-The Origin of Swing, Swing is built on AWT, Two Key Swing Features, MVC Connection, Components and		Chalk and Black Board , Marker Board, LCD Projector	
6	December 3rd Week	2	Event Handling, Create a Swing Applet, Painting in Swing, Exploring Swing - JLabel and Imagelcon	Development of customized applications	Marker Board ICD	Developing own applications based on concepts
7	December 4th Week	L	JTextField, Swing Buttons - JScrollPane, JButton, JToggleButton, JCheckBox			Developing own applications based on concepts
8	January 1st Week		JRadioButton, JTabbedPane, JList, JComboBox, JTable	Development of customized applications	Chalk and Black Board , Marker Board, LCD Projector	

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	January 2nd		Data Structures Creation and Manipulation in Java		Chalk and Black Board ,	
9	Week		-Introduction to Java Collections, Overview of Java		Marker Board	
	January		List Interface, Set Interface, SortedSet Interface,		Chalk and Black Board ,	2
10	3rd Week	3	Queue Interface, Deque Interface		Marker Board	
	January		Commonly used Collection Classes – ArrayList,		Chalk and Black Board ,	
11	4th Week		LinkedList, HashSet,LinkedHashSet, TreeSet,		Marker Board	
	February 1st		Accessing a Collection via an Iterator -Iteration over		Chalk and Black Board ,	
12	Week		Collections – Iterator Interface, List Iterator		Marker Board	
	February		Other Utility classes: StringTokenizer, Random,		Chalk and Black Board ,	
13	2nd Week	4	Formatter-Constructors, Methods, Formatting		Marker Board	
	February		Using Format Flags, Justifying Output, Space, +,0,		Chalk and Black Board ,	
14	3rd Week		and (flags, comma flag,# flag, Uppercase Option,		Marker Board	
			Rectangles, Drawing Ellipses ,Circles, Arcs, Working		Chalk and Black Board ,	
15	February		with Color, Working with Fonts, Managing Text		Marker Board, LCD	
	4th Week		Output using FontMetrics.		Projector	
	Learning Out	comes:	*			
			ing applets, event handling mechanisms and layout ma	anagers.		
			ing swing components.	× ×	2	\$ ×
			ing Collection of classes.			
			ing legacy classes, utility classes and graphics.			

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			PROGRAM	OF SCIENCE, HUMANITIE		: DATABASE MANAGEM		5	
	Name of the Faculty: Department: N Sharon Rosy Computer Science			Year/Semester: II/IV		No. of Classes per Week: (4 hrs/Theory)4 hrs Practic		ek:	
o get equ	knowledge of data lipped with inform asic SQL command	nation ab	out database	e administration					
S.No	Month & Week	Units		Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity	Revie w	Sign
1	November 3rd Week		Traditional F	nvironment- Basic Concpets and Definitions, File Processing Systems, Database Approach Itabase Applications	Difference Dettreeff file	Chalk and Board/ LCD Presentations			
2	November 4thWeek	1	-	of Database Approach, Costs and Risks, s of Database Environment, 3-schema	÷.	Chalk and Board/ LCD Presentations			×
3	November 5th week		Types of Ent	Sample E-R Model, E-R Notation, Entities- tities, Attributes- Types of Attributes, ps- Degree of Relationship, Cardinality	E-R Diagram representation along with relevant examples	Chalk and Board/ LCD Presentations	Individual Activity on		
4	December 1st Week			-R Model- Representing Super Type, Sub senting Specialization and Generalization	Differences between E-R Model and EER Model	Chalk and Board/ LCD Presentations			
5	December 2nd Week		and a second	Completeness Constraints, Specifying S Constraints, Specifying Subtype		Chalk and Board/ LCD Presentations			
6	December 3rd Week	2	Transformin Relations, No	Model- Definitions, Integrity Constraints, ng EER Diagrams into ormalization: Basic Normal Forms(1NF, 2NF ing Relations, Denormalization	How to convert E-R Diagram to its corresponding Relational Model	Chalk and Board/ LCD Presentations	Individual Activity on examples		
7	December 4th Week			Databases and Concurrency control Access- ery Facilities- Backup Facilities, Journalizing		Chalk and Board/ LCD Presentations			
8	January 1st Week		Switch, Rest	anager, Recovery and Restart Procedures, tore/Return, Transaction		Chalk and Board/ LCD Presentations			
9	January 2nd Week	3	Incorrect Da	tabase Failures, Aborted Transactions, ata, System Failure, Database Destruction, n of Lost Updates, Serializability, Locking		Chalk and Board/ LCD Presentations			

January 3rd Week		Locking Levels, Types of Locks, Deadlock, Managing Deadlock Data Dictionaries and Repositories		
January 4th Week	7	Locking Levels, Types of Locks, Deadlock, Managing Deadlock Data Dictionaries and Repositories	Chalk and Board/ LCD Presentations	
February 1st Week		Client-Server and Middleware- Client/Server Architectures. 3Tier Architecture-Partitioning,	Chalk and Board/ LCD Presentations	
February 2nd Week		Establishing Client/Server Security, Client/Server Issues- Distributed Databases- Introduction- Data Replication-	Chalk and Board/ LCD Presentations	
February 3rd Week	4	When to use Replication, Horizontal Partitioning, Vertical Partitioning, Combination of operations,	Chalk and Board/ LCD Presentations	
February 4th Week/March		Database Administration- Role of data and database administrators: Traditional data administration, Evolving approaches to data and database	Chalk and Board/ LCD Presentations Chalk and Board/ LCD	
Learning Outcon	nes: B	administration, Evolving apporaches to data	Presentations	
	3rd Week January 4th Week February 1st Week February 2nd Week February 3rd Week February 4th Week/March	3rd Week January 4th Week February 1st Week February 2nd Week February 3rd Week February 4th Week/March	3rd Week Deadlock Data Dictionaries and Repositories January Locking Levels, Types of Locks, Deadlock, Managing 4th Week Deadlock Data Dictionaries and Repositories February 1st Client-Server and Middleware- Client/Server Week Architectures. 3Tier Architecture-Partitioning, February 2nd Establishing Client/Server Security, Client/Server Issues- Week Distributed Databases- Introduction- Data Replication- February 3rd When to use Replication, Horizontal Partitioning, Vertical Partitioning, Combination of operations, Database Administration- Role of data and database administrators: Traditional data administration, Evolving approaches to data and database administration, Evolving apporaches to data administration,	3rd Week Deadlock Data Dictionaries and Repositories Chalk and Board/ LCD January 4th Week Locking Levels, Types of Locks, Deadlock, Managing Deadlock Data Dictionaries and Repositories Chalk and Board/ LCD February 1st Week Client-Server and Middleware- Client/Server Chalk and Board/ LCD February 2nd Week Architectures. 3Tier Architecture-Partitioning, Establishing Client/Server Security, Client/Server Issues- Distributed Databases- Introduction- Data Replication- Presentations Chalk and Board/ LCD Week When to use Replication, Horizontal Partitioning, Vertical Partitioning, Combination of operations, Database Administration- Role of data and database administrators: Traditional data administration, Evolving approaches to data and database administration, Evolving approaches to data Chalk and Board/ LCD

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They also will be able to interact with Database using SQL (Lab)

			BH	AVAN'S VIVEKANANDA COLLEGE			
				TEACHING PLAN 2018-19			
			PROGRAM: BCA		PAPER TITLE: SYSTEM	ANALYSIS AND LOGICAL	DESIGN
	of the Faculty: B.Vijetha		Department: Computer Science	Year/Semester: II/IV	:	No. of Classes per Week: 4 hrs/Theory	
o underst o underst o underst	tand determining sy	selecting stem requ	System Development Projects	faces and Dialogues			
S.No	Month & Week	Units		Syllabus	Additional Input/Value Addition	Teaching Method	Student, Learning activity
1	November 3rd Week		an and the second se	vironment:Information Systems Analysis re-Software Analyst, Data Information,	2	Chalk and board	
2	November 4thWeek			ess Oriented and Data Oriented Approach- dence, Characteristics of Successful	Real time examples	Chalk and board and LCD presention	
3	November 5thWeek	1	Design, Succeeding as a System			Chalk and board and LCD presention	Group discussion n on System analyst responsion bilities
4	December 1st Week			m Development Projects, Corporate and Top-Down and Bottom-Up Planning		Chalk and board and LCD presention	
5	December 2nd Week		E-Commerce application, Iden Development Projects: Interne	tifying and Selecting System et, E-Commerce, Intranet, Extranet, EDI		Chalk and board and LCD presention	
6	December 3rd Week	2		Development Projects: The Process of elopment Projects, Elements of Project		Chalk and board and LCD presention	
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7	December 4th Week		Accessing Project Feasibility: Economic, Technical, Operational, Schedule, Legal, Contractual and Political, Guidelines for better Cost Estimating, Time Value Money, Accessing Technical Feasibility, Project Risk Assessment Factors	Examples on different feasibilities	Chalk and board and LCD presention	
8	January 1st Week		Determining System requiremenmts: Performing requirement determination, traditional methods for determining requirements: Interviewing and Listening,Guidelines for effective Interviewing,Choosing Interview questions,Interview Guidelines		Chalk and board and LCD presention	
9	January 2nd Week	3	Administering Questionnaires, Designing Questionnaires, Interviewing Groups, Modern methods for determining system requirements: Joint Application Design(JAD), Scribe(Definition), Radical Methods for System Requirements		Chalk and board	Seminar on JAD
10	January 3rd Week		Structuring System Requirements: Process ModelingData Flow Diagram, System Development Life Cycle with highlighting the Analysis phase (Diagram), Deliverables for Process Modeling, DFD Mechanics	Examples on DFD	Chalk and board and LCD presention	
11	January 4th Week		Context Diagrams(Definition), Simple Examples of DFD's,Incorrect ways and Correct ways to draw Data Flow Diagrams, Four Different types of DFD's	~	Chalk and board and LCD presention	
12	February 1st Week		Structuring System Requirements: Logic Modeling, Deliverables for Logical Modeling, Structured English, Modeling Logic with Decision Tables, Modeling Logic with Decision Trees.		Chalk and board and LCD presention	
13	February 2nd Week	4	Designing forms and Reports: Designing Forms and Reports ,Form ,Report , Fundamental Questions when Designing Forms and Reports ,Formatting Forms and Reports.		Chalk and board	
14	February 3rd Week		Designing Interfaces: System Development Life Cycle with highlighting the Design phase (Diagram), Deliverables and Outcomes, Interface (Definition), Interaction Methods & Devices, Command Language Interaction		Chalk and board and LCD presention	Seminar on Design phase

15	February 4th Week/March		Pop-up menu, Drop Down menu, Guidelines for Menu Design, Form Interaction, Object Based Interaction, Icon, Natural Language		Chalk and board and LCD presention	
	Learning Outcomes: Be able to anlyze differents types of skills that are required for a System Analyst					
	Be able to identify and select System Development Projects Be able to determine System Requirements and draw Data Flow Diagrams					
	Be able to draw Decision Trees and Tables and also able to acquire knowledge on designing Interfaces and Dialogues					

	BHAVAN'S VIVEKANANDA COLLEGE							
TEACHING PLAN 2018-19								
Name of the Faculty:	Department:	Subject : E-commerce - 7	No. of Classes per Week:					
Learning Objectives:								

S.No	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	Novembe r 4th Week	~	E-Commerce: Introduction - Potential Benefits of E-commerce, Limitations, E-Business - E-Commerce - E-Business -Impact of E-Commerce on Business Models .		Chalk and Board	
2	Novembe r 5th Week		Classification of E-Commerce: B2B, B2C, C2B, C2C, B2E. Applications of E-Commerce: E-Commerce Organization Applications		Chalk and Board	
3	December 1st Week	1	E-Marketing - E-Advertising - E-Banking - Mobile Commerce - E-Trading - E-Learning - E-Shopping .		LCD presentation	
4	December 2nd Week	i. X	ICDT Business strategy model, Three pillars of E- commerce, Internet and WWW web as enablers of E- commerce.	:	Chalk and Board	Seminars
5	December 3rd Week		E-Commerce and the role of independent third parties, The waves of E-commerce, Impact of Ecommerce on traditional assurance, Security of data and business policies privacy of		Chalk and Board	
6	December 4th Week		EDI-Introduction, Traditional EDI System, The origin of EDI, Non- EDI systems, VAN, Partially integrated EDI system, Fully integrated EDI system, Benefits of EDI.		LCD presentation	Seminars
7	January 1st Week	2	Data transfer standards, Financial EDI, EDI systems and the internet, Risks of insecure systems-introduction, Overview of		Chalk and board and LCD presention	
8	January 2nd Week		Internet associated risks, sabotage by former employees, Threts from current employees, Financial fraud, social engineering		Chalk and Board	Seminars and assignments
9	January 3rd Week		Risk Management-Risk management paradigm, Disaster recovery plans & objectives		Chalk and board and LCD presention	Seminars
10	January 4th Week	3	Internet standards-Introduction, standrd setting issues and committies-ANSI, UN/EDIFACT, Major standard setting		Chalk and board and LCD presention	
11	January 5th Week	Ĵ	Internet and www specific committies, security committies and organizations.		Chalk and Board	seminars and assignments
			and organizations.	VR		

12	February 1st Week		security protocols and languages-domain names,FTP & TELNET,NNTP,HTTP,SGML,HTMLXML,DOM&DHTML,JAVA AND	Chalk and board and LCD presention			
13	February 2nd Week		Firewalls- Introduction, Definition, TCP/IP, OSI, Components of a firewall, Typical functionalities of Firewall.	Chalk and Board	Seminars		
14	February 3rd Week	4	packet filtering,Network address translation,Application level proxies,Real time monitoring.	Chalk and board and LCD presention			
15	February 4th Week		Network topology,Demilitarized zone,factors to consider in Firewall.,E-commerce payment Mechanisms-introduction,the SET protocol, Magnetic strip cards,E-checks,E-cash,FSTC & BIPS.	Chalk and Board	Seminars		
	Learning C 1.Students	Learning Outcomes: 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.					

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

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

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	-			BHAVAN'S VIVEKANANDA TEACHING PLAN 2018			
	lame of the Faculty: Department: G Mahesh Kumar Computer Science			Year/Semester: BCA III/II (Information Security)	N	ses per Week: /Theory)	
To learn To learn To provid	various laws a le knowledge	nd ethics to plan f	or security by	on System. on Security and its risk management factors. implementing security technology. hic Algorithms and Tools.			
S.No	Month & Week	Units		Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	November 3rd Week			to Information Security: History, What is Security?, y Model, Components of an Information System		Chalk and Black Board , Marker Board	
2	November 4th Week	1	Balancing Info security SDLC	ormation Security and Access, The SDLC, The	SDLC Models	Chalk and Black Board , Marker Board, LCD Projector	Discussion on various SDL Models.
3	November 5th Week		The Need for Threats	Security: Introduction, Business Needs First,		Chalk and Black Board , Marker Board	
4	December 1st Week		Attacks- Secu	ire Software Development.		Chalk and Black Board , Marker Board	
5	December 2nd Week			and professional Issues in Information Security: Law and Ethics in Information Security, Relevant		Chalk and Black Board , Marker Board, LCD Projector	
6	December 3rd Week	2	International Security.	Laws and Legal Bodies, Ethics and Information		Chalk and Black Board , Marker Board, LCD Projector	
7	December 4th Week		-	ment: Introduction, An Overview of Risk t, Risk Identification, Risk Assessment, Risk Control		Chalk and Black Board , Marker Board	
8	January 1st Week		Selecting a Ri	isk Control Strategy, Quantitative versus isk Control Practices, Risk Management Discussion		Chalk and Black Board , Marker Board	
9	January 2nd Week			Security: Information Security Policy, Standards		Chalk and Black Board , Marker Board	
10	January 3rd Week	3		ion Security Blueprint, Security Education, Training ess Program, Continuity Strategies		Chalk and Black Board , Marker Board	

11	January		Security Technology-Firewalls and VPNs: Introduction, Access		Chalk and Black Board,	
11	4th Week	т.,	Control, Firewalls, Protecting Remote Connections.		Marker Board	
13	February 1st	а 19 г. г	Security Technology-Intrusion Detection, Access Control and	5	Chalk and Black Board ,	9
	Week		Other Security Tools: Introduction, Intrusion Detection and		Marker Board	
14 15 16	February 2nd Week				Chalk and Black Board ,	
			Honeypots, Honeynets, and Padded Cell Systems, Scanning and		Marker Board, LCD	
		4	Analysis Tools, Biometric Access Controls.		Projector	
	February		Cryptography: Introduction, Foundations of Cryptology, Cipher	Latest Cipher	Chalk and Black Board ,	
	3rd Week		Methods	Mechanisms	Marker Board	
	February		Cryptographic Algorithms, Cryptographic Tools, Protocols for		Chalk and Black Board,	
10	4th Week		Secure Communications, Attacks on Cryptosystems.		Marker Board	
	Learning Out	comes:				
	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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