Class : BCA.	Sem6th	Subject: BCA- NTRODUCTION	N TO LINUX
Name of Assistant / Associate Professor	Period	Topics to be covered	Topic of Assignments / Tests to be given to the students
Dr. Pardup Kumar	01/03/21	Introduction to Linux: Linux distributions, Overview of Linux operating system, Linuxarchitecture, Features of Linux, Accessing Linux system	
	16/03/21 to 31/03/21	Starting and shutting down system,Logging in and Logging out. Comparison of Linux with other operating systems.	Assign ment -I
	01/04/21	Commands in Linux: General-Purpose commands, File oriented commands, directory orientedcommands, Communication-oriented commands, process oriented commands, etc.	
	16/04/21 20 31/04/21	Regular expressions & Filters in Linux: Simple filters viz. more, wc, diff, sort, uniq, grep.Introducing regular expressions.	Tust-I
	01/05/21 to 15/05/21	Linux file system: Linux files, inodes and structure and file system, file system components, standard file system, file system types	,
	15/05/21 12 31/05/21	Processes in Linux: starting and stopping processes, initialization Processes, mechanism ofprocess creation, Job control in linux using at, batch, cron & time	Assignment -II
	01/06/21	Shell Programming: VI editor, shell variables, I/O in shell, control structures, loops,	
. 67	16/05/2/ +0 30/06/2/	, subprograms, creating & executing shell scripts in linux	

Class : BCA	. Sem4th	Subject: BCA- WEB DESIGNING -	I
Name of Assistant / Associate Professor	Period	Topics to be covered	Topic of Assignments / Tests to be given to the students
Dr. Pondup Kumar	01/03/21 15/03/21	Introduction to Internet and World Wide Web; Evolution and History of World Wide Web; Basicfeatures; Web Browsers	
,	16/05/21 to 31/05/24	Web Servers; Hypertext Transfer Protocol; URLs; Searching and Web- Casting Techniques; Search Engines and Search Tools	Assignment-I
	01/04/21 to 15/04/21	Web Publishing: Hosting your Site; Internet Service Provider; Planning and designing your WebSite; Steps for developing your Site	· ·
	16/04/21 30/04/21	Choosing the contents; Home Page; Domain Names;Creating a Website and the Markup Languages (HTML, DHTML)	Test T
6	15/05/21	Web Development: Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML command Tags	Assignment = I
	31/95/21	Creating Links; Headers; Text styles; Text Structuring; Text colors andBackground; Formatting text; Page layouts	
	15/06/21	Images; Ordered and Unordered lists; Inserting Graphics; Table Creation and Layouts; FrameCreation and Layouts	
	16/06/21 30/06/21	Working with Forms and Menus; Working with Radio Buttons; CheckBoxes; Text Boxes	

Class : BCA	Class: BCA. Sem2nd Subject: BCA- PERSONALITY DEVELOPMENT				
Name of Assistant / Associate Professor	Period	Topics to be covered	Topic of Assignments / Tests to be given to the students		
Dr. Pardup Kumaz	15 ph -2021	Personality & Personal Grooming – A Brief IntroductionPersonality and self-concept, Element of Personality, Determinants of Personality, Causes ofderanged Personality, Personality Analysis			
	16-04-2021 to 30-04-202	Grooming, Personal hygiene, Social, Business and Dining Etiquettes, Body language use andmisuse, Art of good Conversation, Art of Intelligent Listening	Addignment		
	01-05-2021 to 15-05-21	Interpersonal Skills & Role playing: Dealing with seniors, colleagues, juniors, customers, suppliers, contract workers, owners etc at work place			
		1			
	16-05-2024 to 31-05-2024	Team behavior, how to effectively conduct yourselfduring GD,	Test I		
	9-06-2021 25-06-2011	do's and don'ts, clarity of thoughts and its expressionPresentation skills & seminar skills			
,	30-06-201	Interviews Preparation: Intent and purpose, selection procedure, types of interviews, Selfplanning, writing winning resume, knowledge of company profiles, academics and professional knowledge review	Assignment-II		
	1-07-200, +0 31-07-21	update on current affairs and possible questions, time –keeping, grooming, dress code, document portfolio, frequently asked questions and theirappropriate answers, self – introduction, panel addressing, mental frame – work duringinterview			

(Dr. Pasdup Komar)

Class : BCA.	Sem2nd	Subject: BCA- 'C' Programming – I	
Name of Assistant / Associate Professor	Period	Topics to be covered	Topic of Assignments / Tests to be given to the students
JAGSIR SINGH	15 -04-202) 01-04-202)		
	16-04-21 to 30-04-21	Input/output: Unformatted & formatted I/O function in C, Input functions viz. scanf(), getch(),getche(), getchar(), gets(), output functions viz. printf(), putch(), putchar(), puts().	ASSIGNMENT-I Ilo Unformatted and Formatted Input Functions
	01-05-21 to 15-05-21	Operators & Expression: Arithmetic, relational, logical, bitwise, unary, assignment, conditional operators and special operators. Arithmetic expressions, evaluation of arithmetic expression, typecasting and conversion, operator hierarchy & associativity.	
	16-05-21 to 31-05-21	Decision making & branching: Decision making with IF statement, IF-ELSE statement, Nested IFstatement, ELSE-IF ladder, switch statement, goto statement	Test-I Decision Making Statements & Looping Statement
	15-06-21	Decision making & looping: For, while, and do-while loop, jumps in loops, break, continuestatement.	
	16-06-21 to 30-06-21	passing parameters, recursion.	•
	01-07-21 15-07-21 16-07-21 31-07-21	Storage classes in C: auto, extern, register and static storage class, their scope, storage, & lifetime.	ASSIGNMENT-IL Storage clanes
	31-07-21	Arrays: Definition, types, initialization, processing an array, passing arrays to functions, Strings & arrays.	

JAGSIR SINGH)

Class: BCA. Sem- 4th

Class: BCA	Jein- 40	(Even Sem	
		LESSON PLAN (Even Semester) Session 2020-21 Subject: BCA - 243 COMPUTER AD Topics 4	
Name of	T-	BCA - 243 CO.	
Assistant	ı	COMPUTER	
Professor	Period	TA A)	RCHITECTURE
oressor		Th.	TORE_
		Topics to be covered	
JAGSIR	01	Covered	Topic of
	01-03-2	Computer Arith	433810m
SINGH	40	Cult Pater Arith	Tests to be given
•		divoriti illiliticate custoned	the students
	15-03-2	and multiplication and addition,	Tents
	11-03	and multiplication and division and multiplication algorithms. Addition, and multiplication algorithms.	
	16-03-2	Floating. Subtraction	
	3100	multiplication numbers at the	
	31-03-2	1 - Valing A division	
	07-04-2	Interpolation standard algorithms, IFFE 75	
	to	Interrupt Structures: Types of interrupts, Interrupt implementing interrupts in interrupts interrupts interrupts interrupts interrupts interrupts interrupts interrupts in interrupt in interrupts in	
	15-04-21		
		processing, levels and priorities of interrupts, implementing interrupts inside the CPU.	Assum
	16-04-21	inside the Christians.	ASSIGINMENT -
	40		Interrupt
	30-04-21	Instruction set architectures. Reduced Instruction Set Computing (RISC): Characteristics of RISC, RISC instruction set, RISC vs CISC.	Interrupt Types of Entorny and handling
	,	rdSC instruction set Diagonal Characteristics of Diagonal	maling
	01-05-21	TOOL TO OLG - TOO OL RISK	
	40	LOOK AL.	
1		Look Ahead & Pipelining: Instruction look ahead, look ahead and look behind, advantages of look ahead systems.	
	15-05-21	anead systems.	TEST-I
T	1/-07	Pine!	Pipelining: Type Advantages of it
	10.02-21	Pipelined execution of instruction – operation of pipelines, optimizing a pipeline speed	Adv.
	40	pipelines, optimizing a pipeline, speedup due to idling, multifunction	montages of it
1.	2.4	idling running the pipeling speedup due to	
	つる-02-2	pipelining, running the pipeline, speedup due to idling, multifunction pipelines, and organization of pipelines in a general purpose computer.	
		of pipelines in a general purpose computer.	
1	7-06-14	Introduction to Day 11	
	40	Introduction to Parallel Processing: Parallelism in uniprocessor systems, organization	Acelerate
1	5-00-21	multiprocessor systems, organization of	ASSIGNMENT-IT
	1	multiprocessor systems, organization of system topologies, MIMD system architecture.	Torallel footening
	6-06-21	system topologies, MIMD system architectures.	Parallel foocening and MIMB System Archi.
1.		Communication in multiprocessor systems, fixed connections, reconfigurable connections	System Archi
	40	connections, reconfigurable connections, routing multistage interconnection present	•
3	30-06-4	on multistage interconnection networks, data	

Class: BCA. Sem- 4th Subject: BCA – 244 RELATIONAL DATA BASE MANAGEMENT SYSTEM

Name of Assistant Professor	Period	Topics to be covered	Topic of Assignments / Tests to be given to the students
JAGSIR SINGH	15-03-2	Relational Model Concepts, Codd's Rules for Relational Model, Relational Algebra: Selection and Projection, Set Operation, Renaming,	-
	31-03-7	Join and Division. Relational Calculus: Tuple Relational Calculus and Domain Relational Calculus.	
	15-04-21	Functional Dependencies and Normalization:-Purpose, Data Redundancy and Update Anomalies. Functional Dependencies:-Full Functional Dependencies and Transitive Functional Dependencies, Characteristics of Functional Dependencies.	Normalization and Types
	16-04-71 30-04-71	Decomposition and Normal Forms (1NF, 2NF, 3NF & BCNF).	•
	01-05-4 to 11-05-4	SQL: Data Definition and data types, Specifying Constraints in SQL, Schema, Change statement,	TEST-I Confocints in SPL and DB schane
	16-05-21 21-05-21	Basic Queries in SQL, Insert, Delete and Update Statements, Views.	
¥ 2	15-06-21	PL/SQL-Introduction, Advantages of PL/SQL, The Generic PL/SQL Block: PL/SQL Execution Environment	Assiginment-II PLISPL-Introduction
	16-06-21 to 30-06-21	PL/SQL Character set and Data Types, Control Structure in PL/SQL	

JAGSIR SINGH)

Class: BCA. Sem6th Subject: BCA-INTRODUCTION TO .NET				
Name of Assistant / Associate Professor	Period	Topics to be covered	Topic of Assignments / Tests to be given to the students	
RAJBIR KAUR Guest Loctures)	1st Maugh 15th Merch	The Framework of .Net: Building blocks of .Net Platform (the CLR, CTS and CLS), Featuresof .Net, Deploying the .Net Runtime, Architecture of .Net platform		
	16th March 514 March	Introduction to namespaces& type distinction. Types & Object in .Net, the evolution of Web development		
	Is+ Apuil to 15th April	Class Libraries in .Net, Introduction to Assemblies & Manifest in .Net, Metadata & attributes.Introduction to C#: Characteristics of C#,	Assignment-T	
	6 th April Lo April Zom April	Data types: Value types, reference types, defaultvalue, constants, variables, scope of variables, boxing and unboxing.	Test	
	1st May to May	Operators and expressions: Arithmetic, relational, logical, bitwise, special operators, evolution of expressions, operator precedence & associativity.		
	164 May to 31st May	Control constructs in C#: Decision making, loops.Classes & methods: Class, methods, constructors, destructors, overloading of operators &functions	Assignment-II	
	Ist June to 15th June	Inheritance & polymorphism: visibility control, overriding, abstract class & methods, sealedclasses & methods, interfaces		
	16 th June To the June	, Advanced features of C#: Exception handling & error handling, automatic memory management,Input and output (Directories, Files, and streams).		

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Class : BCA.	Sem6th	Subject: BCA- INTERNET TEC	HNOLOGY
Name of Assistant / Associate	Period	Topics to be covered	Topic of Assignments / Tests to be given to the students
RAJBIR KAUR GUUT LECTION	lst March to 15th March	Internet and TCP/IP: Introduction to the Internet; Internet History, Internet Administration;Internet and Intranet; Internet Services; TCP/IP model and its protocols; IP addresses: IPv4	
	16th March to 31th March	The need foriPvo; Packet Politiat, IPvo	Assign ment-I
	Ist Apail to 15th Apail	TCP/IPs Transport and Network Layer Protocols: Role of TCP, UDP, IP, and Port numbers;Format of TCP, UDP and IP; TCP services; TCP connection management; Remote ProcedureCall; SCTP	TUF
	16th April to John April	IP address resolution- DNS; Domain Name Space; DNS mapping; Recursive andIterative resolution; Resource records; Mapping Internet Addresses to Physical Addresses; ARP,RARP, BOOTP, DHCP; ICMP; IGMP	
	Toth May	TCP/IP Application Level Protocols: Electronic Mail: Architecture; SMTP, MIME, POP, IMAP;Web Based Mail; File Access and Transfer: FTP, Anonymous FTP, TFTP, NFS	Assignment-It
	16th May to May	Remote Loginusing TELNET; Voice and Video over IP: RTP, RTCP, IP Telephony and Signaling, ResourceReservation and Quality of Service, RSVP	
	Ist June to 15th June	Routing in Internet: RIP, OSPF, BGP; Internet Multicasting; Mobile IP; Private NetworkInterconnection: Network Address Translation (NAT), Virtual Private Network (VPN	
	16th June to 30th June	, InternetManagement: SNMP; Internet Security: IPSec, E-Mail Security; Web Security; Firewalls; DigitalSignatures; Certificates	



Class: BCA	. Sem2nd	Subject: BCA- Logical Organization	of Computer – II
Name of Assistant / Associate Professor	Period	Topics to be covered	Topic of Assignments / Tests to be given to the students
RADBIR KAUR	Ist April to	Sequential Logic: Characteristics, Flip- Flops, Clocked RS, D type, JK, T type and Master-Slave flip-flops	
KAUR (Guest Locturer)	15th April		
	16th April 30th April	State table, state diagram and state equations. Flip-flop excitation tables	Axignment-I
	15th May	Sequential Circuits: Designing registers – Serial Input Serial Output (SISO), Serial Input ParallelOutput (SIPO), Parallel Input Serial Output (PISO), Parallel Input Parallel Output	
	16 th May 31 May	Designing counters – Asynchronous and Synchronous Binary Counters, Modulo-NCounters and Up-Down Counters	Teel
	1st June 15th June	Memory & I/O Devices: Memory Parameters, Semiconductor RAM, ROM, Magnetic and OpticalStorage devices	Assignment -II
	30 M June	Flash memory, I/O Devices and their controllers.	
2	18+ July 15th July	Instruction Design & I/O Organization: Machine instruction, Instruction set selection, Instructioncycle, Instruction Format and Addressing Modes	
	16th July 31th July	I/O Interface, Interrupt structure, Program-controlled, Interrupt- controlled & DMA transfer, I/O Channels, IOP.	

Class: BCA	Sem6th	Subject: BCA- VISUAL BASIC	,
Name of Assistant / Associate Professor	Period	Topics to be covered	Topic of Assignments / Tests to be given to the students
Ramhopal	1.3.21 To 15.3.21	Introduction to VB: Visual & non-visual programming, Procedural, Object-oriented and event-driven programming languages, The VB environment: Menu bar, Toolbar, Project explorer,	
	16.3.21 To 31.3.21	Toolbox, Properties window, Form designer, Form layout, Immediate window. VisualDevelopment and Event Driven programming	
	1. 4.21 TO 15.4.21	Basics of Programming: Variables: Declaring variables, Types of variables, Converting variablestypes, User-defined data types, Forcing variable declaration, Scope & lifetime of variables	Assignment I Converting Valieble Ty Scope & Life Time
	30.4.21	Constants: Named & intrinsic. Operators: Arithmetic, Relational & Logical operators. I/O in VB:Various controls for I/O in VB, Message box, Input Box, Print statement.	
	1.5.21 To 15.5.21	Programming with VB: Decisions and conditions: If statement, If-then-else, Select-case. Loopingstatements: Do-loops, For-next, While-wend, Exit statement. Nested control structures. Arrays:Declaring and using arrays	TEST I All Type of loops in VB
	16.5.21 To 31.5.21	one-dimensional and multi-dimensional arrays, Static & dynamic arrays, Arrays of array. Collections: Adding, Removing, Counting, Returning items in a collection, Processing a collection	
	1.6.21 To 15.6.21	Programming with VB: Procedures: General & event procedures, Subroutines, Functions, Callingprocedures, Arguments- passing mechanisms, Optional arguments, Named arguments, Functions returning custom data types, Functions returning arrays.	function Leturnels Array.
	16.6.21 To 30.6.21	, Working with forms: Adding multiple forms in VB, Hiding & showing forms, Load & unloadstatements, Activate & deactivate events, Form-load event, menu designing in VBSimple programs in VB.	U

Class: BCA	. Sem2nd	Subject: BCA- Computer-Oriented St	atistical Methods
Name of Assistant / Associate Professor	Period	Topics to be covered	Topic of Assignments / Tests to be given to the students
RamGope	1.4.2021 TO 15.4.2021	Basic Statistics: Measure of Central Tendency, Preparing frequency, distribution table, MeanArithmetic, Mean Geometric, Mean Harmonic, Mean, Media, Mode	
	16-4.2021 70 30-4.2021	Measure of Dispersion: Range, Variance and Standard Deviations; Frequency Distributions andCumulative Frequency Distributions: Moments and Moments Generating Functions	Assignment I Range, variance and SD
	1·5·21 15·5·21	Distribution Patterns: Types of Theoretical Probability; Normal Binomial Poisson distribution	Test I. Types of Theoritical probability
	16.5.21 TO 31.5.21	Correlation and Regression: Types of Correlation, Properties of Coefficient of Correlation, Methods of studying Correlation; Aim of Regression Analysis, Kinds of Regression Analysis.	
	1.6.21 To 15.6.21	Tests of significance: Z-test, Student T-test, Chi-square test.	
	16.6.21 30.6.2)	Curve fitting: Method of least squares and Polynomial fit.	Assignment 2 Test significance & curve filling.
	1.7,2)	ANOVA: Meaning, Assumptions, Cochran's Theorem (only statement), One way classification ANOVA Table Baye's theorem in decision-making,	
	31.7.21	Forecastingtechniques	

Class: BCA	. Sem4th	Subject: BCA- DATA STRUCTURE	- II
Name of Assistant / Associate Professor	Period	Topics to be covered	Topic of Assignments / Tests to be given to the students
RamGobal	1.3.21 TO 15.3.21	Tree: Header nodes, Threads, Binary search trees, Searching, Insertion and deletion in a Binarysearch tree, AVL search trees, Insertion and deletion in AVL search tree, m-way search tree,	
	16.3.21 31.3.21	Searching, Insertion and deletion in an m-way search tree, B-trees, Searching, Insertion anddeletion in a B-tree, Huffman's algorithm, General trees.	
	1.4.21 To 15.4.21	Graphs: Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path	Assignment T Dijkstra Alganitmu
	30.4.21	Operations ongraphs, Traversal of graph, Topological sorting.	
,	1.5.21 To 15.5.21	Sorting: Internal & external sorting, Radix sort, Quick sort, Heap sort, Merge sort, Tournamentsort	Test I Quick soxt
	16.5.21 31.5.21	Comparison of various sorting and searching algorithms on the basis of their complexity	
	15.6.21	Files: Introduction Attributes of a file, Classification of files, File operations, Comparison ofvarious types of files	Assignment III file handling
	30.6.21	File organization: Sequential, Indexed- sequential, Random-access file.Hashing: Introduction, Collision resolution	和本

		Subject: BCA- MANAGEMENT INFOR	MATION SYSTEM
Class: BCA. Name of Assistant /	Period	Topics to be covered	Topic of Assignments / Tests to be given to the students
Associate Professor		Leter duction to system and Basic	the students
Anil Kumar	1st March	System Concepts, Types of Systems, The Systems Approach, Information	
Numay	15th March	System:	
	16th March	Introduction to system and Basic System Concepts, Types of Systems, The Systems Approach, Information System: Definition & Characteristics, Types of information, Role of Information in decision-Making, Sub-Systems of an Information system: EDP and MIS	
	31st March	management levels, LDF AMO/DDD	1
	bot Aprile	An overview of Management Information System: Definition & Characteristics, Components of MIS, Frame Work for Understanding MIS: Information requirements & Levels of	
	15th April A	Management,	
	16th April John April	Structured Vs Un-structured decisions, Formal vs. Informal systems	
	1st May	Analysis	
	11th May to May	Design of Information Systems: Implementation &Evaluation, Pitfalls in MIS Development.	
	lst Jyne	Functional MIS: A Study of Personnel, Financial and production MIS, Introduction to e-businesssystems, ecommerce – technologies, applications,	
	15th June	, Decision support systems – support systems for planning, control and decision-making	
2	30th Jun	400,51011 111211119	

(Anil Kymar)

ol DCA		Subject: BCA- MULTIMEDIA TI	ECTINOT OCA
Class: BCA.	Period Period	Topics to be covered	
Assistant / Associate Professor	renod		Topic of Assignments / Tests to be given to the students
Anil Kumar	Lot March to 15th March	Introduction to Multimedia: Components of Multimedia; Hypermedia and Multimedia; Overview of Multimedia Software Tools; Multimedia Hardware and Software; Basic Software Tools; Making Instant Multimedia; Presentation Tools;	
	16th March to J1st March	Multimedia Authoring; Types of Authoring Tools; Card-and Page-Based Authoring Tools; Icon-Based Authoring Tools; Time- Based Authoring Tools; Object-Oriented Authoring Tools; VRML	Assignment-I
	by April to April	Graphics and Image Data Representation: Graphics/Image Data Types, Popular File Formats; Color Models in Images and Video; Types of Video Signals	
	16+6 April to 30+6 April	Analog and Digital Video: Broadcast Video Standards: NTSC, PAL, SECAM, HDTV; Chroma Sub sampling; CCIR Standards for Digital Video;	Test
	Lit May	Digital Audio: Digitization of Sound; MIDI Versus Digital Audio; Quantization and Transmission of Audio: Coding of Audio;	
	15th May 16th May Just May	Pulse Code Modulation; Differential Coding of Audio; Lossless Predictive Coding; DPCM; DM; ADPCM	Augnment-I
	1st June 1st June	Multimedia Data Compression: Run-Length Coding; Variable-Length Coding; Dictionary-Based Coding; Transform Coding	
	16th June to June	Image Compression Standards – JPEG standard; Video Compression Techniques: H.261, H.263, MPEG	



Class: BCA	A. Sem6th	Subject: BCA- PROGRAMM	ING IN 'C++
Name of Assistant / Associate Professor	Period	Topics to be covered	Topic of Assignments / Tests to be given to the students
Anil Kumar	121 × Lider	Inheritance: Rules of Derivations – Private, Protected and Public Derivations	
	16th March to Jest March		Assignment-I
	to April 15th April	Dynamic Polymorphism: Function Overriding, Virtual Function and its Need, Pure VirtualFunction, Abstract Class, Virtual Derivation, Virtual Destructor.	
	18th Aprile to 30th April	Type Conversion: Basic Type Conversion, Conversion Between Objects And Basic Types, Conversion Between Objects Of Different Classes	test
	100 May To May	Genericity in C++: Template Function, Template Class, Inheritance and Templates	
	JEHAMAL JISA MA	Exception Handling: try, throw and catch constructs, rethrowing an exception, catch all Handlers	Assignment I
	10th Jun	Files I/O in C++: Class Hierarchy for Files I/O, Text versus Binary Files, Opening and Closing Files	
, in	15th Jun	File Pointers, Manipulators and Erro Handling	or
	20th Jun	e ·	A Second

(Anil Kumar)