



St.Thomas College of Arts and Science



Koyambedu, Chennai-107

Lesson Plan

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Department : Computer Applications

Lesson Plan - 18 Weeks (November 2019 –March 2020)

Week	Date	Day	Class: III BCA A - Data Communication and Networking SAE6A (6th Sem)	Class : I BCA B - Programming in C - SAE1A (2nd Sem)	Class : I BCA B Programming in C LAB SAE11 (2nd Sem)
1	28-Nov-19	THURSDAY	Introduction to data communication	Introduction to C programming, History of Programming Languages	
	29-Nov-19	FRIDAY	Networks, distributed processing		Introduction to C programming lab
	30-Nov-19	SATURDAY	Network Criteria, Application, Protocols	Character Sets of C Programming, Identifiers, Keywords and Datatypes	Summation of Sine Series (comparison with builtin functions)
	01-Dec-19	SUNDAY	HOLIDAY		
	02-Dec-19	MONDAY	Standards Committes-Line Configuration-Topology	Constants, Variables, Declaration of variables	summation of Cosine Series (comparison with builtin functions)
	03-Dec-19	TUESDAY	Topology-Transmission Mode	Types of Data Types , Inter Types , Floating Point Types	

2	04-Dec-19	WEDNESDAY	The OSI model-Function of Layers	Void Types , Character Types , Initialization of Values while declaring variables	
	05-Dec-19	THURSDAY	OSI model functions of Physical and Data Link Layers	Primary type declaration, User Defined type declaration, Declaration of Storage Class	
	06-Dec-19	FRIDAY	Functions of Network and Transport Layers	Assigning Values to Variables, Reading Data from Ket Board	Summation of Exp Series (comparision with bultin functions)
	07-Dec-19	SATURDAY	Functions of Session, Presentation and Application layers	Defining Symbolic Constants, Declaring a Variable as Const	
	08-Dec-19	SUNDAY	HOLIDAY		
3	09-Dec-19	MONDAY	TCP / IP protocol suite	Declarating a Variable as Volatile, Arithmetic Operators, Integer Arthmetic	
	10-Dec-19	TUESDAY	Digital Data Transmission	Real Arithmetics, Relational Operators	
	11-Dec-19	WEDNESDAY	DTE - DCE Interfaces	Logical Operators, Assignment Operators	
	12-Dec-19	THURSDAY	Interface Standards	Increment and Decrement Operators, Conditional Operators, Bitwise Operators	
	13-Dec-19	FRIDAY	EIA, IEEE, ISO Standards	Special Operators, Sizeof Operators, Comma Operators, Arithmetic Expressions	Counting the number of vowels, consonants, words, white space in a line of text and array of lines
	14-Dec-19	SATURDAY	Modems - 56K- Cable Modem	Evaluation of Expressions, Precodence of Arithmetic Operators, Some Computational Problems	

	15-Dec-19	SUNDAY	HOLIDAY		
4	16-Dec-19	MONDAY	Guided Media	Type Conversions in Expression, Explicit Conversion, Implicit Conversion	Reversing a string and check for polindrome
	17-Dec-19	TUESDAY	Unguided Media	Operator Precedence and Associativity	
	18-Dec-19	WEDNESDAY	Many to One / One to Many FDM - WDM - TDM	Mathematical Functions, Trigonometric, Hyperbolic, other functions	
	19-Dec-19	THURSDAY	Telephone Systems	Managing i/p & o/p Operations, Reading a character, Writing a Character	
	20-Dec-19	FRIDAY	Error Correction	Formatted i/p, Inputting Integer Numbers, Inputting real numbers, Inputting Character strings	Substring detection, count and removal
	21-Dec-19	SATURDAY	Error Detection	Reading mixed datatypes, Detection of Errors in i/p	finding and replacing substrings
	5	22-Dec-19	SUNDAY	CHRISTMAS HOLIDAYS	
23-Dec-19		MONDAY			
24-Dec-19		TUESDAY			
25-Dec-19		WEDNESDAY			
26-Dec-19		THURSDAY			
27-Dec-19		FRIDAY			
28-Dec-19		SATURDAY			
29-Dec-19		SUNDAY			
30-Dec-19		MONDAY			
31-Dec-19		TUESDAY			
01-Jan-20		WEDNESDAY			
02-Jan-20		THURSDAY			

6	03-Jan-20	FRIDAY	Revision of OSI Model, Error Detection and Error Correction	Points to remember while using scanf, Formatted o/p, o/p of integer numbers, o/p of real numbers, mixed data o/p	calculating npr using recursion
	04-Jan-20	SATURDAY	Types of Error Detection and Checksum	Enhancing the readability of O/p, Decision Making and Branching	
	05-Jan-20	SUNDAY	HOLIDAY		
7	06-Jan-20	MONDAY	INTERNAL ASSESSMENT-1		
	07-Jan-20	TUESDAY			
	08-Jan-20	WEDNESDAY			
	09-Jan-20	THURSDAY			
	10-Jan-20	FRIDAY			
	11-Jan-20	SATURDAY	Vertical Redundancy Check, Longitudinal Redundancy Check	Decision Making with if Statements, Simple if Statements, if -- Else statements	
12-Jan-20	SUNDAY	HOLIDAY			
8	13-Jan-20	MONDAY	PONGAL HOLIDAYS		
	14-Jan-20	TUESDAY			
	15-Jan-20	WEDNESDAY			
	16-Jan-20	THURSDAY			
	17-Jan-20	FRIDAY			
	18-Jan-20	SATURDAY			
19-Jan-20	SUNDAY				
	20-Jan-20	MONDAY	Single Bit Error Correction-Hamming Code	Nested If -- Else Statements, Else - If ladder, Switch statement, The ?: operator	
	21-Jan-20	TUESDAY	Multiplexing	Goto statement, continue statement, do statement, while statement,	

9	22-Jan-20	WEDNESDAY	Time Division Multiplexing	Arrays - Introduction of One Dimensional Array, Declaration of One Dimensional Arrays	Calculating ncr using recursive function
	23-Jan-20	THURSDAY	Wave Division Multiplexing	Initialization of One Dimensional arrays- Compile time initialization	GCD of two numbers
	24-Jan-20	FRIDAY	Frequency Division Multiplexing	Run time initialization - Two Dimensional Array	Fibonacci sequence
	25-Jan-20	SATURDAY	Transmission of Digital Data Interfaces	Initializing two dimensional arrays	
	26-Jan-20	SUNDAY	HOLIDAY		
10	27-Jan-20	MONDAY	INDUSTRIAL VISIT	Multidimensional arrays	
	28-Jan-20	TUESDAY	Multiplexing and Application of Telephone Systems	Dynamic Arrays, More about Arrays, Character arrays and Strings	
	29-Jan-20	WEDNESDAY	Local Area Networks - Project 802 IEEE 802.1	Reading and Writing strings, Combining String together Copying one string to another	Addition of two matrices
	30-Jan-20	THURSDAY	LLC, MAC-Protocol data unit	Reading a line of text using getchar and gets function	Subtraction of two matrices
	31-Jan-20	FRIDAY	Ethernet- Access Method CSMA/CD	Functions - Need of Functions	Multiplication of two matrices
	01-Feb-20	SATURDAY	CSMA/CD Addressing, Electrical Specifications, Frame Format, Implementation	Structure of Functions, Function declaration or prototyping	Transpose and trace of a matrix
	02-Feb-20	SUNDAY	HOLIDAY		

11	03-Feb-20	MONDAY	Other Ethernet Network, Switched Ethernet	Function definition, function Call , function datatype, name, list of parameters	
	04-Feb-20	TUESDAY	Token Bus, Token Ring, Access Method- Token Passing, Addressing	Local declaration, actual and formal parameters, Types of functions, function with no argument and no return	
	05-Feb-20	WEDNESDAY	Electrical, Specification, Frame Formats, Implementation	function with arugment and no return, Function with no arguments with return value	Determinant of a matrix
	06-Feb-20	THURSDAY	FDDT Access Method, Token Passing, Addressing, Electrical Specifications	Function with arguments and return value	Inverse of matrix
	07-Feb-20	FRIDAY	FDDI Frame Format, Implementation	Nesting of Functions, Recursion, Passing arrays to functions	Bubble sorting
	08-Feb-20	SATURDAY	Metropolitian Area Network, IEEE 802.6 (DQDB)	One Dimensional Array, Two Dimensional Array, The Scope visibility and lifetime of Varibales	
	09-Feb-20	SUNDAY	DQDB - Access Methid- Dual Bus	Mutlfile Programs, Passing strings to functions	
	10-Feb-20	MONDAY	INTERNAL ASSESSMENT-2		
	11-Feb-20	TUESDAY			
	12-Feb-20	WEDNESDAY			
	13-Feb-20	THURSDAY			
	14-Feb-20	FRIDAY			

12	15-Feb-20	SATURDAY	DQDB Distributed Queues, Ring Configuration, DQDB Layers, Implementation	Introduction declaration and initializing string variables, reading strings from terminal, reading a line of text	
	16-Feb-20	SUNDAY	SMDS-Architecture and Features	writings strings to screen, arithmetic operations on characters	
13	17-Feb-20	MONDAY	Circuit Switching- Space Division Switching	Putting strings together comparison of two strings, strings handling functions	
	18-Feb-20	TUESDAY	Time Division Switches, TDM Bus- Public Switching, telephone network	Table of strings, other features of strings, Defining a structure, Declaring Structure Variables	Linear sorting
	19-Feb-20	WEDNESDAY	Packet Switching- Datagram Approach- Virtual Circuit Approach	Accessing Structure members, Structure, initialization operations on individual members	Revision of Programs
	20-Feb-20	THURSDAY	Message Switching- ISDN	Arrays of Structure, Arrays within Structure, Unions	Revision of Programs
	21-Feb-20	FRIDAY	ISDN Services , Bearer Services, Teleservices	Pointers, Understanding pointers, Accessing the address of a variables	Revision of Programs
	22-Feb-20	SATURDAY	History of ISDN, Voice Communication of ISDN	Declaring pointer variables, initialization of pointer variables	
	23-Feb-20	SUNDAY	HOLIDAY		
	24-Feb-20	MONDAY	Subscriber Access to ISDN, ISDN Layers, Physical, Data Link and Network Layers	Accessing a variable through its pointers, chain of pointers	

14	25-Feb-20	TUESDAY	Broadband ISDN, Services and Physical Specification	Pointer Expressions, Pointers and Character Strings, Array of Pointers	
	26-Feb-20	WEDNESDAY	X.25 Layers Physical Frame, Packet Layers	Poniters as function arguments	Revision of Programs
	27-Feb-20	THURSDAY	ATM-Design Goals-Packet Network, Mixed Network and Cell Network	Poniters and Structures	Revision of Programs
	28-Feb-20	FRIDAY	ATM Architecture	File management in C	Revision of Programs
	29-Feb-20	SATURDAY	Switching VP Switch & VPC Switch	Defining and Opening a file	
	01-Mar-20	SUNDAY	HOLIDAY		
15	02-Mar-20	MONDAY	Switch Fabric, ATM Layers	Closing a file , i/p and o/p	
	03-Mar-20	TUESDAY	Repeaters, Bridges	operations on files	
	04-Mar-20	WEDNESDAY	Routers, Gateways	SEMINAR	Revision of Programs
	05-Mar-20	THURSDAY	Distance Vector Routing, Link State Routing	ASSIGNMENT	Revision of Programs
	06-Mar-20	FRIDAY	Link State Routing-Dijkstra Algorithm	Revision	
	07-Mar-20	SATURDAY	TCP / IP and Internet - Addressing, Subnetting	Revision	
	08-Mar-20	SUNDAY	HOLIDAY		
16	09-Mar-20	MONDAY	INTERNAL ASSESSMENT- 3		
	10-Mar-20	TUESDAY			
	11-Mar-20	WEDNESDAY			
	12-Mar-20	THURSDAY			
	13-Mar-20	FRIDAY			
	14-Mar-20	SATURDAY	SEMINAR	Revision	

	15-Mar-20	SUNDAY	HOLIDAY
17	16-Mar-20	MONDAY	NME Exam & Practical Exams
	17-Mar-20	TUESDAY	
	18-Mar-20	WEDNESDAY	
	19-Mar-20	THURSDAY	
	20-Mar-20	FRIDAY	
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	26-Mar-20	THURSDAY	
	27-Mar-20	FRIDAY	