

NBGSM College
Lesson Plan July 2019- Nov 2020

Name of assistant Professor :	Rajnish Kumar		
Class :	BCA		
Semester:	First		
Subject:	Logical Org. of Computer-I		
	Day	Date	Topic
1st Week	1	16-Jul-19	Computer Architecture
	2	17-Jul-19	Digital Logic
	3	18-Jul-19	Organization and Design Of Computer
	4	19-Jul-19	Analog and Digital signals
	5	20-Jul-19	Memory Organization
	Sunday	21-Jul-19	
2nd Week	1	22-Jul-19	Primary and secondary memory
	2	23-Jul-19	Number System And Its Type
	3	24-Jul-19	
	4	25-Jul-19	Conversion a Number System into An Another form
	5	26-Jul-19	Conversion Octal,Binary,Hexadecimal to Decimal Number System
	6	27-Jul-19	Conversion Decimal Number System to Octal,Binary,Hexadecimal
	Sunday	28-Jul-19	
3rd week	1	29-Jul-19	Conversion Binary to Octal and Octal to Binary
	2	30-Jul-19	Conversion Binary to Hexadecimal and Hexadecimal to Binary
	3	31-Jul-19	Holiday
	4	1-Aug-19	Conversion Hexadecimal to Octal and Octal to Hexadecimal
	5	2-Aug-19	
	6	3-Aug-19	Problem solve conversion of number system
	Sunday	4-Aug-19	
4th week	1	5-Aug-19	Binary arithmetic, Addition
	2	6-Aug-19	Binary Subtraction
	3	7-Aug-19	1's And 2's Complement
	4	8-Aug-19	Subtraction using 1's And 2's Complement
	5	9-Aug-19	Binary Multiplication
	6	10-Aug-19	Fixed-point and Floating-point representation of numbers
	Sunday	11-Aug-19	
5th week	1	12-Aug-19	Holiday
	2	13-Aug-19	Operation on Floating Point Numbers
	3	14-Aug-19	Binary Codes
	4	15-Aug-19	Holiday
	5	16-Aug-19	BCD codes
	6	17-Aug-19	Errors in Digital Communication
	Sunday	18-Aug-19	
6th week	1	19-Aug-19	Character Representation in Binary
	2	20-Aug-19	ASCII codes
	3	21-Aug-19	EBCDIC Codes
	4	22-Aug-19	Unicode
	5	23-Aug-19	Addition and Subtraction of BCD
	6	24-Aug-19	Holiday
	Sunday	25-Aug-19	

7th week	1	26-Aug-19	Basic Gates and Logic
	2	27-Aug-19	Universal Gates
	3	28-Aug-19	Circuit and Boolean Algebraic Equation
	4	29-Aug-19	Forms of Boolean Algebra
	5	30-Aug-19	Boolean theorem
	6	31-Aug-19	D-Morgan Law
	Sunday	1-Sep-19	
8th week	1	2-Sep-19	Boolean Functions and Truth Tables
	2	3-Sep-19	Canonical and Standard forms of Boolean functions
	3	4-Sep-19	Minimize a Boolean Function
	4	5-Sep-19	Venn Diagram
	5	6-Sep-19	Karnaugh Map
	6	7-Sep-19	Different Forms Of K-Map
	Sunday	8-Sep-19	
9th week	1	9-Sep-19	Minimizing using K-Map
	2	10-Sep-19	K-Map with Don't Care
	3	11-Sep-19	Solution K-Map, POS and SOP Forms
	4	12-Sep-19	Maximization Boolean Expression
	5	13-Sep-19	Minimization Boolean Expression
	6	14-Sep-19	Solve Boolean Exp. Using Standard Law
	Sunday	15-Sep-19	
10th week	1	16-Sep-19	Solve Boolean Exp. Using Standard Law
	2	17-Sep-19	Introduction to digital signals,
	3	18-Sep-19	Analog Signal, Diff. between Analog and Digital Signal
	4	19-Sep-19	Basic Gates – AND, OR, NOT
	5	20-Sep-19	Venn Diagram Of AND,OR,NOT
	6	21-Sep-19	Universal Gates NOR,NAND,XOR,XNOR
	Sunday	22-Sep-19	
11th week	1	23-Sep-19	Holiday
	2	24-Sep-19	Circuit and Implementation of Gates
	3	25-Sep-19	Implementation of Basic gates using NOR
	4	26-Sep-19	Implementation of Basic gates using NAND
	5	27-Sep-19	Implementation of XOR using NAND,NOR
	6	28-Sep-19	AND-OR-INVERT
	Sunday	29-Sep-19	
12th week	1	30-Sep-19	Multilevel Implementation
	2	1-Oct-19	OR-AND-INVERT
	3	2-Oct-19	Holiday
	4	3-Oct-19	Multilevel NAND circuit
	5	4-Oct-19	Multilevel NOR circuit
	6	5-Oct-19	Combinational Logic
	Sunday	6-Oct-19	
13th week	1	7-Oct-19	Characteristics Combinational circuit
	2	8-Oct-19	Holiday
	3	9-Oct-19	Procedures, analysis procedures
	4	10-Oct-19	Half adder
	5	11-Oct-19	Full adder
	6	12-Oct-19	Parallel binary adder
	Sunday	13-Oct-19	
14th week	1	14-Oct-19	Half subtractor
	2	15-Oct-19	Full subtractor

	3	16-Oct-19	4 bit binary adder subtractor
	4	17-Oct-19	Holiday
	5	18-Oct-19	Decoder combinational logic
	6	19-Oct-19	3x8 line decoder
	Sunday	20-Oct-19	
15th week	1	21-Oct-19	BCD to decimal decoder
	2	22-Oct-19	Encoder combinational logic
	3	23-Oct-19	Decimal to BCD Encoder
	4	24-Oct-19	Vacations
	5	25-Oct-19	
	6	26-Oct-19	
	Sunday	27-Oct-19	
16th week	1	28-Oct-19	
	2	29-Oct-19	
	3	30-Oct-19	
	4	31-Oct-19	Octal to BCD Encoder
	5	1-Nov-19	Holiday
	6	2-Nov-19	Multiplexer logic
	Sunday	3-Nov-19	
17th week	1	4-Nov-19	4x1 line Multiplexer
	2	5-Nov-19	8x1 line Multiplexer
	3	6-Nov-19	Demultiplexer
	4	7-Nov-19	1x4 Demultiplexer
	5	8-Nov-19	1x8 Demultiplexer
	6	9-Nov-19	Comparators
	Sunday	10-Nov-19	
18th week	1	11-Nov-19	7 segment display
	2	12-Nov-19	BCD to 7 segment display
	3	13-Nov-19	Code converter
	4	14-Nov-19	Error Detecting And Correcting Codes
	5	15-Nov-19	Problem solve
	6	16-Nov-19	
	Sunday	17-Nov-19	

Name of assistant Professor :	RAJNISH KUMAR		
Class :	BCA		
Semester:	THIRD		
Subject:	DATA STRUCTURE-I		
	Day	Date	Topic
1st Week	1	16-Jul-19	Introduction to data structure
	2	17-Jul-19	Elementary data organization
	3	18-Jul-19	Data types in c
	4	19-Jul-19	Derived data types
	5	20-Jul-19	Data type vs. data structure
	Sunday	21-Jul-19	
2nd Week	1	22-Jul-19	Structure in c
	2	23-Jul-19	Implementation of structure
	3	24-Jul-19	Structure and pointer
	4	25-Jul-19	Union in c

	5	26-Jul-19	Categories of data structures
	6	27-Jul-19	Categories of data structures
	Sunday	28-Jul-19	
3rd week	1	29-Jul-19	Operations Data structure, Insert,Delete
	2	30-Jul-19	Operations Traversing, Merging, Sorting
	3	31-Jul-19	Holiday
	4	1-Aug-19	Operations Traversing, Merging, Sorting
	5	2-Aug-19	Applications of data structures
	6	3-Aug-19	Algorithm
	Sunday	4-Aug-19	
4th week	1	5-Aug-19	Rules for making an algorithm
	2	6-Aug-19	Complexity of an algorithm
	3	7-Aug-19	Algorithm time-space tradeoff
	4	8-Aug-19	Big-O notataion.
	5	9-Aug-19	Introduction to a String
	6	10-Aug-19	Storing strings in memory
	Sunday	11-Aug-19	
5th week	1	12-Aug-19	Holiday
	2	13-Aug-19	Implementation of a string
	3	14-Aug-19	Operation on a string, input, display
	4	15-Aug-19	Holiday
	5	16-Aug-19	Length finding, copying, reverse
	6	17-Aug-19	Concate a string, convert lower and upper case
	Sunday	18-Aug-19	
6th week	1	19-Aug-19	String Pattern matching
	2	20-Aug-19	Boyer moore algo. string matching
	3	21-Aug-19	Introduction to an array
	4	22-Aug-19	Types of array
	5	23-Aug-19	Memory representation of linear array
	6	24-Aug-19	Holiday
	Sunday	25-Aug-19	
7th week	1	26-Aug-19	Memory representation of 2-D array
	2	27-Aug-19	Address calculation in 1-D array
	3	28-Aug-19	Address calculation in 2-D array
	4	29-Aug-19	Address calculation in multi dimension array
	5	30-Aug-19	Operation performed on array
	6	31-Aug-19	Insert, Delete
	Sunday	1-Sep-19	
8th week	1	2-Sep-19	Traversing, Sorting, Merging
	2	3-Sep-19	Selection Sort, Bubble Sort
	3	4-Sep-19	Merge Sort
	4	5-Sep-19	Insertion Sort
	5	6-Sep-19	Searching in an array, Sequential search
	6	7-Sep-19	Binary Search
	Sunday	8-Sep-19	
9th week	1	9-Sep-19	Parallel Array, Sparse array
	2	10-Sep-19	Array and pointer
	3	11-Sep-19	Introduction to a linked list
	4	12-Sep-19	Representation of a linked list in memory
	5	13-Sep-19	Stack: Introduction
	6	14-Sep-19	Array and linked representation of stacks

	Sunday	15-Sep-19	
10th week	1	16-Sep-19	Operations on stacks,
	2	17-Sep-19	Implement of PUSH operation
	3	18-Sep-19	Implement of POP, Traverse operation
	4	19-Sep-19	Applications of stacks
	5	20-Sep-19	Polish notation, prefix, postfix, infix
	6	21-Sep-19	Recursion
	Sunday	22-Sep-19	
11th week	1	23-Sep-19	Holiday
	2	24-Sep-19	Stack implement infix to postfix
	3	25-Sep-19	Stack implement infix to prefix
	4	26-Sep-19	Neumeric solve prefix postfix conversion
	5	27-Sep-19	Queues: Introduction
	6	28-Sep-19	Array and linked representation of queues
	Sunday	29-Sep-19	
12th week	1	30-Sep-19	Operations on queues
	2	1-Oct-19	Types of Queue
	3	2-Oct-19	Holiday
	4	3-Oct-19	Double Ended Queue
	5	4-Oct-19	Circular Queue and its implementation
	6	5-Oct-19	Deque, Priority Queues
	Sunday	6-Oct-19	
13th week	1	7-Oct-19	Applications of queues
	2	8-Oct-19	Holiday
	3	9-Oct-19	Linked List: Introduction
	4	10-Oct-19	Array vs. linked list
	5	11-Oct-19	Operation performed on linked list
	6	12-Oct-19	Insertion, Deletion
	Sunday	13-Oct-19	
14th week	1	14-Oct-19	Traversal
	2	15-Oct-19	Types of linked list
	3	16-Oct-19	Insertion into beginning, into end
	4	17-Oct-19	Holiday
	5	18-Oct-19	Deletion from beginning, from end
	6	19-Oct-19	Circular linked list
	Sunday	20-Oct-19	
15th week	1	21-Oct-19	Two-way linked list
	2	22-Oct-19	Garbage collection
	3	23-Oct-19	Threaded lists, Applications of linked lists
	4	24-Oct-19	
	5	25-Oct-19	
	6	26-Oct-19	
	Sunday	27-Oct-19	
16th week	1	28-Oct-19	
	2	29-Oct-19	
	3	30-Oct-19	
	4	31-Oct-19	Tree: Introduction, Basic terminology
	5	1-Nov-19	Holiday
	6	2-Nov-19	Representing Binary tree in memory
	Sunday	3-Nov-19	

17th week	1	4-Nov-19	Operation on a tree,
	2	5-Nov-19	Insert and Delete a node
	3	6-Nov-19	Types of binary tree
	4	7-Nov-19	Inorder,Preorder,Postorder Traversing
	5	8-Nov-19	Binary Search Tree
	6	9-Nov-19	Traversal algorithms using stacks.
	Sunday	10-Nov-19	
18th week	1	11-Nov-19	Linked list view of a binary tree
	2	12-Nov-19	Tree making example
	3	13-Nov-19	Graph: Introduction
	4	14-Nov-19	Graph theory terminology
	5	15-Nov-19	Types of graph
	6	16-Nov-19	Sequential and linked representation of graphs
	Sunday	17-Nov-19	
		Topic	

Name of assistant Professor :	RAJNISH KUMAR
Class :	BCA
Semester:	FIFTH
Subject:	COMPUTER GRAPHICS

	Day	Date	Topic
1st Week	1	16-Jul-19	Introduction to computer graphics
	2	17-Jul-19	Basics of Graphics systems
	3	18-Jul-19	CUI and GUI
	4	19-Jul-19	Interactive and non- Interactive graphics
	5	20-Jul-19	Application areas of Computer Graphics
	Sunday	21-Jul-19	
2nd Week	1	22-Jul-19	video-display devices
	2	23-Jul-19	Properties of video display device
	3	24-Jul-19	Random scan system
	4	25-Jul-19	Raster scan system
	5	26-Jul-19	CRT Monitor
	6	27-Jul-19	Color CRT techniques Beam Penetration
	Sunday	28-Jul-19	
3rd week	1	29-Jul-19	Shadow- mask method
	2	30-Jul-19	DVST and Flat panel display
	3	31-Jul-19	Holiday
	4	1-Aug-19	LCD and LED display
	5	2-Aug-19	input devices and output devices
	6	3-Aug-19	Working of display processor
	Sunday	4-Aug-19	
4th week	1	5-Aug-19	Point and lines
	2	6-Aug-19	Program to display a point using graphics in c
	3	7-Aug-19	Pixel, resolution,persistence
	4	8-Aug-19	DDA line drawing algorithms
	5	9-Aug-19	Numerical problem of DDA
	6	10-Aug-19	Bresenham's line drawing algorithms
	Sunday	11-Aug-19	
5th week	1	12-Aug-19	Holiday

	2	13-Aug-19	Numerical problem of Bresenham's
	3	14-Aug-19	
	4	15-Aug-19	
	5	16-Aug-19	Scan converting a circle
	6	17-Aug-19	Bresenham's circle algorithms
	Sunday	18-Aug-19	
6th week	1	19-Aug-19	Numerical problem of Bresenham's circle drawing
	2	20-Aug-19	Scan converting an ellipse
	3	21-Aug-19	Program to draw a line
	4	22-Aug-19	Region filling
	5	23-Aug-19	Area filling
	6	24-Aug-19	Holiday
	Sunday	25-Aug-19	
7th week	1	26-Aug-19	Scan line polygon fill algorithm
	2	27-Aug-19	boundary fill algorithms
	3	28-Aug-19	Flood fill algorithms
	4	29-Aug-19	2-D Geometrical Transforms
	5	30-Aug-19	Translation and matrix
	6	31-Aug-19	Scaling and matrix
	Sunday	1-Sep-19	
8th week	1	2-Sep-19	Rotation and matrix
	2	3-Sep-19	shear transformations and matrix
	3	4-Sep-19	homogeneous coordinates system
	4	5-Sep-19	matrix representations in transformation
	5	6-Sep-19	composite transforms, transformations
	6	7-Sep-19	Implementation of translation
	Sunday	8-Sep-19	
9th week	1	9-Sep-19	Implementation of Rotation
	2	10-Sep-19	Rotation about origin
	3	11-Sep-19	Rotation about fixed point
	4	12-Sep-19	Scaling with respect to the origin
	5	13-Sep-19	Reflection transformation
	6	14-Sep-19	Mirror reflection about an axis
	Sunday	15-Sep-19	
10th week	1	16-Sep-19	Inverse geometric transformation
	2	17-Sep-19	Composite transformation
	3	18-Sep-19	Numerical problem solve of transformation
	4	19-Sep-19	Numerical problem solve of rotation
	5	20-Sep-19	Numerical problem of scaling, translation
	6	21-Sep-19	2-D Viewing , The viewing pipeline
	Sunday	22-Sep-19	
11th week	1	23-Sep-19	Holiday
	2	24-Sep-19	viewing coordinate reference frame
	3	25-Sep-19	Line clipping algorithm
	4	26-Sep-19	COHEN-SUTHERLAND algo
	5	27-Sep-19	Midpoint subdivision algo
	6	28-Sep-19	Polygon clipping
	Sunday	29-Sep-19	
12th week	1	30-Sep-19	SUTHERLAND-HODGMAN algo.
	2	1-Oct-19	Window and viewport system
	3	2-Oct-19	Holiday

	4	3-Oct-19	window to viewport coordinate transformation	
	5	4-Oct-19	Cyrus-beck line clipping algorithms	
	6	5-Oct-19	Numerical solve	
	Sunday	6-Oct-19		
13th week	1	7-Oct-19	3-D Object Representation	
	2	8-Oct-19	Holiday	
	3	9-Oct-19	Polygon surfaces	
	4	10-Oct-19	quadric surfaces	
	5	11-Oct-19	spline representation	
	6	12-Oct-19	Hermite curve	
	Sunday	13-Oct-19		
14th week	1	14-Oct-19	Solid modeling	
	2	15-Oct-19	Bezier curve	
	3	16-Oct-19	B-Spline curves	
	4	17-Oct-19	Holiday	
	5	18-Oct-19	Bezier and B-Spline surfaces	
	6	19-Oct-19	Basic illumination models	
	Sunday	20-Oct-19		
15th week	1	21-Oct-19	polygon-rendering methods	
	2	22-Oct-19	Hidden surface	
	3	23-Oct-19	Depth buffer algo or Z-buffer algo	
	4	24-Oct-19	Vacations	
	5	25-Oct-19		
	6	26-Oct-19		
	Sunday	27-Oct-19		
16th week	1	28-Oct-19		
	2	29-Oct-19		
	3	30-Oct-19		
	4	31-Oct-19		3-D Geometric Transformations
	5	1-Nov-19		Holiday
	6	2-Nov-19		3-D Geometrical Transforms
	Sunday	3-Nov-19		
17th week	1	4-Nov-19	Translation and matrix	
	2	5-Nov-19	Scaling and matrix	
	3	6-Nov-19	Rotation and matrix	
	4	7-Nov-19	3-D reflection and shear transformations	
	5	8-Nov-19	3-D composite transformations.	
	6	9-Nov-19	3-D Viewing, Viewing pipeline	
	Sunday	10-Nov-19		
18th week	1	11-Nov-19	3-D Viewing: viewing coordinates	
	2	12-Nov-19	Projection in graphics	
	3	13-Nov-19	Types of projection	
	4	14-Nov-19	general projection transforms and clipping	
	5	15-Nov-19	Numerical problems	
	6	16-Nov-19		
	Sunday	17-Nov-19		