Name of the Faculty:	Ms. Gaganpreet kaur
Discipline:	BCA
Semester:	4 th
Subject:	Data Structures and Applications (B23- CAP-401)
Work Load(Lecture/Practical) per week(In hours):	Lecture-4

S. No	Lecture	Theory		
	No.	Topic(Including Assignment/Test/Quiz)	Pedagogy (PPT/Chalk and Board/Video Recording /Activity/Case Study)	
1.	L1.	Data Structure Definition, Data Tyj vs. Data Structure	pe Chalk and Board and PPT	
2.	L2.	Classification of Data Structures, Data Structure Operations,	Chalk and Board and PPT	
3.	L3.	Applications of Data Structures.	Chalk and Board and PPT	
4.	L4.	Algorithm Specifications: Performance Analysis and Measurement	Chalk and Board	
5.	L5.	Time and Space Analysis of Algorithms- Average, Best and Worst Case Analysis	Chalk and Board	
6.	L6.	Arrays: Introduction, Linear Arrays,	Chalk and Board	
7.	L7.	Representation of Linear Array in Memory	Chalk and Board and PPT	
8.	L8.	Two Dimensional Arrays	Chalk and Board and PPT	
9.	L9.	Multidimensional Arrays	Chalk and Board	
10.	L10.	Sparse Matrix and its Representation	Chalk and Board and PPT	
11.	L11.	Operations on Array: Algorithm for Traversal, Selection,		
12.	L12.	Insertion, Deletion	Chalk and Board and PPT	
13.	L13.	String Handling: Storage of Strings	Chalk and Board and PPT	
14.		Assignment1	On Paper	

15.	L14.	Operations on Strings viz., Length, Concatenation, Substring	Chalk and Board and PPT
16.	L15.	Insertion, Deletion	Chalk and Board
17.	L16.	Replacement, Pattern Matching	Chalk and Board
18.	L17.	Linked List: Introduction	Chalk and Board
19.	L18.	Array vs. linked list	Chalk and Board and PPT
20.	L19.	Representation of linked lists in Memory	Chalk and Board and PPT
21.	L20.	Traversing a Linked List, Insertion	Chalk and Board
22.	L21.	Deletion, Searching into a Linked list	Chalk and Board and PPT
23.	L22.	Type of Linked List	Chalk and Board and PPT
24.	L23.	Stack: Array Representation of Stack	Chalk and Board and PPT
25.	L24.	Linked List Representation of Stack	Chalk and Board
26.	L25.	Algorithms for Push and Pop,	Chalk and Board
27.	L26.	Application of Stack: Polish Notation,	Chalk and Board and PPT
28.	L27.	Postfix Evaluation Algorithms,	Chalk and Board and PPT
29.		Assignment2	On Paper
30.	L28.	Infix to Postfix Conversion	Chalk and Board and PPT
31.	L29.	Infix to Prefix Conversion,	Chalk and Board and PPT
32.	L30.	Recursion.	Chalk and Board and PPT
33.	L31.	Introduction to Queues: Simple Queue, Double Ended Queue,	Chalk and Board
34.	L32.	Circular Queue,	Chalk and Board and PPT
35.	L33.	Priority Queue,	Chalk and Board and PPT
36.	L34.	Representation of Queues as Linked List and Array,	Chalk and Board and PPT
37.	L35.	Applications of Queue.	Chalk and Board and PPT

38.	L36.	Algorithm on Insertion and Deletion in Simple Queue	Chalk and Board and PPT
39.	L37.	Algorithm on Insertion and Deletion in Circular Queue.	Chalk and Board and PPT
40.	L38.	Priority Queues.	Chalk and Board and PPT
41.	L39.	Tree: Definitions and Concepts, Representation of Binary Tree	Chalk and Board and PPT
42.	L40.	Binary Tree Traversal (Inorder, postorder, preorder)	Chalk and Board and PPT
43.		Assignment3	On Paper
44.	L41.	Binary Search Trees – Definition, Operations	Chalk and Board and PPT
45.	L42.	searching, insertions and deletion	Chalk and Board and PPT
46.	L43.	Sorting Techniques: Bubble sort	Chalk and Board and PPT
47.	L44.	Merge sort	Chalk and Board
48.	L45.	Insertion Sort.	Chalk and Board
49.	L46.	Selection sort,	Chalk and Board and PPT
50.	L47.	Quick sort,	Chalk and Board and PPT
51.	L48.	Searching Techniques: Sequential Searching, Binary Searching	Chalk and Board and PPT

Name o	of the Faculty:		Ms. Tanya	
Discipl	ine:		BCA	
Semester:		4 th		
Subject:			Front-end l	Development (B23-CAP-402)
Work l hours):		nctical) per week(In	Lecture-4	
S. No	Lecture	Theory		
	No.	Topic(Includ Assignment/T		Pedagogy (PPT/Chalk and Board/Video Recording /Activity/Case Study)
1.	L1.	Introduction to	objects	Chalk and Board and PPT
2.	L2.	Type of objects JavaScript	s in	Chalk and Board and PPT
3.	L3.	Creating object	S	Chalk and Board and PPT
4.	L4.	Object method	S	Chalk and Board
5.	L5.	Constructor fu	nction	Chalk and Board
6.	L6.	Prototype in Ja	vaScript	Chalk and Board
7.	L7.	Inheritance usi prototype chair	•	Chalk and Board and PPT
8.	L8.	Introduction to	regexp	Chalk and Board and PPT
9.	L9.	Regular expres	sion usage	Chalk and Board
10.	L10.	Modifiers		Chalk and Board and PPT
11.	L11.	Regexp patterns		Chalk and Board
12.	L12.	Regexp methods		Chalk and Board and PPT
13.	L13.	String methods for regexp		Chalk and Board and PPT
14.		Assignment1		On Paper
15.	L14.	Type conversion JavaScript	on in	Chalk and Board and PPT

16.	L15.	JavaScript events	Chalk and Board
17.	L16.	Event handler	Chalk and Board
18.	L17.	Event flow	Chalk and Board
19.	L18.	Event bubbling and capturing	Chalk and Board and PPT
20.	L19.	Event listeners	Chalk and Board and PPT
21.	L20.	Event types	Chalk and Board
22.	L21.	Introduction to DOM, Types of DOM	Chalk and Board and PPT
23.	L22.	DOM standards and methods	Chalk and Board and PPT
24.	L23.	Manipulating documents using DOM	Chalk and Board and PPT
25.	L24.	Handling images	Chalk and Board
26.	L25.	Table manipulation	Chalk and Board
27.	L26.	Animation	Chalk and Board and PPT
28.	L27.	Node and Node-list handling	Chalk and Board and PPT
29.		Assignment2	On Paper
30.	L28.	Introduction to BOM, DOM vs. BOM differences	Chalk and Board and PPT
31.	L29.	Window object and methods	Chalk and Board and PPT
32.	L30.	BOM navigator	Chalk and Board and PPT
33.	L31.	BOM history, BOM location	Chalk and Board
34.	L32.	BOM timer	Chalk and Board and PPT
35.	L33.	Session and persistent cookies	Chalk and Board and PPT
36.	L34.	Introduction to forms	Chalk and Board and PPT
37.	L35.	Form processing	Chalk and Board and PPT
38.	L36.	Forms object	Chalk and Board and PPT

39.	L37.	Accessing data from forms	Chalk and Board and PPT
40.	L38.	Form validation	Chalk and Board and PPT
41.	L39.	Additional features in forms	Chalk and Board and PPT
42.	L40.	Validation APIS	Chalk and Board and PPT
43.		Assignment3	On Paper
44.	L41.	Introduction to jquery, jquery Syntax	Chalk and Board and PPT
45.	L42.	Jquery Selectors	Chalk and Board and PPT
46.	L43.	Jquery Events	Chalk and Board and PPT
47.	L44.	Jquery Effects	Chalk and Board
48.	L45.	Jquery HTML	Chalk and Board
49.	L46.	Jquery Traversing	Chalk and Board and PPT
50.	L47.	Jquery AJAX	Chalk and Board and PPT
51.	L48.	Jquery Misc	Chalk and Board and PPT

Name of the Faculty:		lty:	Er. Rooz Munjal	
Discip			BCA 4 th	
Semes				
Subject:			Computer Graphics B23-CAP-403	
WorkLoad(Lecture/Practical)perweek(Inhours): Lecture			Lecture - 4	
Sl	Lecture	Theory		
No.	No.	Topic(Including Assignment/Test/Quiz)		Pedagogy (PPT& Chalk- Board and Board/Video Recording /Activity/Case Study)
1	L1	Introduction: History of Computer	Graphics (CG)	PPT &Chalk-Board
2	L2	Components of interactive graphic	s systems	PPT & Chalk-Board
3	L3	Display devices: Refresh CRT		РРТ
4	L4	Plasma Panel displays,		Chalk-Board
5	L5	Raster-scan System		Chalk-Board
6	L6	Random scan System		РРТ
7	L7	Graphic software		PPT & Chalk-Board
8	L8	Input/Output Devices, Tablets		PPT & Chalk-Board
9		Query session, &Assignment-1		
10	L9	Output Primitives: Points and Line	s	Chalk-Board
11	L10	Line Drawing Algorithms		Chalk-Board
12	L11	DDA algorithm		Chalk-Board
13	L12	Bresenham's algorithm		Chalk-Board
14	L13	Circle drawing Algorithms		Chalk-Board
15	L14	Polynomial Method		PPT & Chalk-Board
16	L15	Bresenham's algorithm		PPT & Chalk-Board
17	L16	Parametric representation of Cubic Curves		Chalk-Board
18	L17	Bezier Curves		Chalk-Board
19		Query Session		
20	L18	2D Transformation: Use of Homog	geneous	PPT & Chalk-Board
		Coordinates Systems		
21	L19	Composite Transformation		Chalk-Board

23L21RotationChalk-Board24L22Rotation about an Arbitrary PointChalk-Board25L23Clipping and WindowingChalk-Board26L24Clipping OperationsPPT & Chalk-Board27L25Color CRTChalk-Board28L26Applications of Computer GraphiesChalk-Board29L27LCD PanelsPPT & Chalk-Board30L28Mirror ReflectionChalk-Board31L29ScalingChalk-Board32Query SessionChalk-Board33L30Line Clipping Algorithms: The Mid-Point subdivision methodPPT & Chalk-Board34L31Cohen-Sutherland Line Clipping AlgorithmsPPT & Chalk-Board35L32Polygon ClippingChalk-Board36L33Sutherland Hodgeman AlgorithmsChalk-Board37L34Text ClippingChalk-Board38L353-D object representationsChalk-Board39L363-D TransformationsChalk-Board40Assignment 2On paper41L37Translation, RotationChalk-Board42L38Scaling, ProjectionsChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board46L42Scan-line algorithmChalk-Board47L43Depth sort algorithmCh	22	L20	Translation	Chalk-Board
25L23Clipping and WindowingChalk-Board26L24Clipping OperationsPPT & Chalk-Board27L25Color CRTChalk-Board28L26Applications of Computer GraphicsChalk-Board29L27LCD PanelsPPT & Chalk-Board30L28Mirror ReflectionChalk-Board31L29ScalingChalk-Board32Query Session2333L30Line Clipping Algorithms: The Mid-Point subdivision methodPPT & Chalk-Board34L31Cohen-Sutherland Line Clipping AlgorithmsPPT & Chalk-Board35L32Polygon ClippingChalk-Board36L33Sutherland Hodgeman AlgorithmsChalk-Board38L353-D object representationsChalk-Board39L363-D TransformationsChalk-Board40Assignment 2On paper41L37Translation, RotationChalk-Board42L38Scaling, ProjectionsChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board46L42Scan-line algorithmChalk-Board47L43Depth sort algorithmChalk-Board	23	L21	Rotation	Chalk-Board
26L24Clipping OperationsPPT & Chalk-Board27L25Color CRTChalk-Board28L26Applications of Computer GraphicsChalk-Board29L27LCD PanelsPPT & Chalk-Board30L28Mirror ReflectionChalk-Board31L29ScalingChalk-Board32Query Session2333L30Line Clipping Algorithms: The Mid-Point subdivision methodPPT & Chalk-Board34L31Cohen-Sutherland Line Clipping AlgorithmsPPT & Chalk-Board35L32Polygon ClippingChalk-Board36L33Sutherland Hodgeman AlgorithmsChalk-Board37L34Text ClippingChalk-Board38L353-D object representationsChalk-Board39L363-D TransformationsChalk-Board40Assignment 2On paper41L37Translation, RotationChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board46L42Scan-line algorithmChalk-Board47L43Depth sort algorithmChalk-Board	24	L22	Rotation about an Arbitrary Point	Chalk-Board
27L25Color CRTChalk-Board28L26Applications of Computer GraphicsChalk-Board29L27LCD PanelsPPT & Chalk-Board30L28Mirror ReflectionChalk-Board31L29ScalingChalk-Board32Query Session2333L30Line Clipping Algorithms: The Mid-Point subdivision methodPPT & Chalk-Board34L31Cohen-Sutherland Line Clipping AlgorithmsPPT & Chalk-Board35L32Polygon ClippingChalk-Board36L33Sutherland Hodgeman AlgorithmsChalk-Board37L34Text ClippingChalk-Board38L353-D object representationsChalk-Board39L363-D TransformationsChalk-Board40Assignment 2On paper41L37Translation, RotationChalk-Board42L38Scaling, ProjectionsChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board46L42Scan-line algorithmChalk-Board47L43Depth sort algorithmChalk-Board	25	L23	Clipping and Windowing	Chalk-Board
28L26Applications of Computer GraphicsChalk-Board29L27LCD PanelsPPT & Chalk-Board30L28Mirror ReflectionChalk-Board31L29ScalingChalk-Board32Query Session3333L30Line Clipping Algorithms: The Mid-Point subdivision methodPPT & Chalk-Board34L31Cohen-Sutherland Line Clipping AlgorithmsPPT & Chalk-Board35L32Polygon ClippingChalk-Board36L33Sutherland Hodgeman AlgorithmsChalk-Board37L34Text ClippingChalk-Board38L353-D object representationsChalk-Board40Assignment 2On paper41L37TransformationsChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board47L43Depth sort algorithmChalk-Board	26	L24	Clipping Operations	PPT & Chalk-Board
111129L27LCD PanelsPPT & Chalk-Board30L28Mirror ReflectionChalk-Board31L29ScalingChalk-Board32Query SessionPPT & Chalk-Board33L30Line Clipping Algorithms: The Mid-Point subdivision methodPPT & Chalk-Board34L31Cohen-Sutherland Line Clipping AlgorithmsPPT & Chalk-Board35L32Polygon ClippingChalk-Board36L33Sutherland Hodgeman AlgorithmsChalk-Board37L34Text ClippingChalk-Board38L353-D object representationsChalk-Board39L363-D TransformationsChalk-Board40Assignment 2On paper41L37Translation, RotationChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board47L43Depth sort algorithmChalk-Board	27	L25	Color CRT	Chalk-Board
30L28Mirror ReflectionChalk-Board31L29ScalingChalk-Board32Query Session3333L30Line Clipping Algorithms: The Mid-Point subdivision methodPPT & Chalk-Board34L31Cohen-Sutherland Line Clipping AlgorithmsPPT & Chalk-Board35L32Polygon ClippingChalk-Board36L33Sutherland Hodgeman AlgorithmsChalk-Board37L34Text ClippingChalk-Board38L353-D object representationsChalk-Board39L363-D TransformationsChalk-Board40Assignment 2On paper41L37Translation, RotationChalk-Board42L38Scaling, ProjectionsChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board47L43Depth sort algorithmChalk-Board	28	L26	Applications of Computer Graphics	Chalk-Board
31L29ScalingChalk-Board32Query Session	29	L27	LCD Panels	PPT & Chalk-Board
32Query Session33L30Line Clipping Algorithms: The Mid-Point subdivision methodPPT & Chalk-Board34L31Cohen-Sutherland Line Clipping AlgorithmsPPT & Chalk-Board35L32Polygon ClippingChalk-Board36L33Sutherland Hodgeman AlgorithmsChalk-Board37L34Text ClippingChalk-Board38L353-D object representationsChalk-Board39L363-D TransformationsChalk-Board40Assignment 2On paper41L37Translation, RotationChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board46L42Scan-line algorithmChalk-Board47L43Depth sort algorithmChalk-Board	30	L28	Mirror Reflection	Chalk-Board
33L30Line Clipping Algorithms: The Mid-Point subdivision methodPPT & Chalk-Board34L31Cohen-Sutherland Line Clipping AlgorithmsPPT & Chalk-Board35L32Polygon ClippingChalk-Board36L33Sutherland Hodgeman AlgorithmsChalk-Board37L34Text ClippingChalk-Board38L353-D object representationsChalk-Board39L363-D TransformationsChalk-Board40Assignment 2On paper41L37Translation, RotationChalk-Board42L38Scaling, ProjectionsChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board47L43Depth sort algorithmChalk-Board	31	L29	Scaling	Chalk-Board
In Bordsubdivision method34L31Cohen-Sutherland Line Clipping AlgorithmsPPT & Chalk-Board35L32Polygon Clipping36L33Sutherland Hodgeman AlgorithmsChalk-Board37L34Text ClippingChalk-Board38L353-D object representationsChalk-Board39L363-D TransformationsChalk-Board40Assignment 2On paper41L37Translation, RotationChalk-Board42L38Scaling, ProjectionsChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board47L43Depth sort algorithmChalk-Board	32		Query Session	
34L31Cohen-Sutherland Line Clipping AlgorithmsPPT & Chalk-Board35L32Polygon ClippingChalk-Board36L33Sutherland Hodgeman AlgorithmsChalk-Board37L34Text ClippingChalk-Board38L353-D object representationsChalk-Board39L363-D TransformationsChalk-Board40Assignment 2On paper41L37Translation, RotationChalk-Board42L38Scaling, ProjectionsChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board47L43Depth sort algorithmChalk-Board	33	L30	Line Clipping Algorithms: The Mid-Point	PPT & Chalk-Board
35L32Polygon ClippingChalk-Board36L33Sutherland Hodgeman AlgorithmsChalk-Board37L34Text ClippingChalk-Board38L353-D object representationsChalk-Board39L363-D TransformationsChalk-Board40Assignment 2On paper41L37Translation, RotationChalk-Board42L38Scaling, ProjectionsChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board46L42Scan-line algorithmChalk-Board47L43Depth sort algorithmChalk-Board			subdivision method	
36L33Sutherland Hodgeman AlgorithmsChalk-Board37L34Text ClippingChalk-Board38L353-D object representationsChalk-Board39L363-D TransformationsChalk-Board40Assignment 2On paper41L37Translation, RotationChalk-Board42L38Scaling, ProjectionsChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board46L42Scan-line algorithmChalk-Board47L43Depth sort algorithmChalk-Board	34	L31	Cohen-Sutherland Line Clipping Algorithms	PPT & Chalk-Board
37L34Text ClippingChalk-Board38L353-D object representationsChalk-Board39L363-D TransformationsChalk-Board40Assignment 2On paper41L37Translation, RotationChalk-Board42L38Scaling, ProjectionsChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board46L42Scan-line algorithmChalk-Board47L43Depth sort algorithmChalk-Board	35	L32	Polygon Clipping	Chalk-Board
38L353-D object representationsChalk-Board39L363-D TransformationsChalk-Board40Assignment 2On paper41L37Translation, RotationChalk-Board42L38Scaling, ProjectionsChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board46L42Scan-line algorithmChalk-Board47L43Depth sort algorithmChalk-Board	36	L33	Sutherland Hodgeman Algorithms	Chalk-Board
39L363-D TransformationsChalk-Board40Assignment 2On paper41L37Translation, RotationChalk-Board42L38Scaling, ProjectionsChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board46L42Scan-line algorithmChalk-Board47L43Depth sort algorithmChalk-Board	37	L34	Text Clipping	Chalk-Board
40Assignment 2On paper41L37Translation, RotationChalk-Board42L38Scaling, ProjectionsChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board46L42Scan-line algorithmChalk-Board47L43Depth sort algorithmChalk-Board	38	L35	3-D object representations	Chalk-Board
41L37Translation, RotationChalk-Board42L38Scaling, ProjectionsChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board46L42Scan-line algorithmChalk-Board47L43Depth sort algorithmChalk-Board	39	L36	3-D Transformations	Chalk-Board
42L38Scaling, ProjectionsChalk-Board43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board46L42Scan-line algorithmChalk-Board47L43Depth sort algorithmChalk-Board	40		Assignment 2	On paper
43L39Hidden surface eliminationChalk-Board44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board46L42Scan-line algorithmChalk-Board47L43Depth sort algorithmChalk-Board	41	L37	Translation, Rotation	Chalk-Board
44L40Back face removalChalk-Board45L41Depth Buffer algorithmChalk-Board46L42Scan-line algorithmChalk-Board47L43Depth sort algorithmChalk-Board	42	L38	Scaling, Projections	Chalk-Board
45L41Depth Buffer algorithmChalk-Board46L42Scan-line algorithmChalk-Board47L43Depth sort algorithmChalk-Board	43	L39	Hidden surface elimination	Chalk-Board
46L42Scan-line algorithmChalk-Board47L43Depth sort algorithmChalk-Board	44	L40	Back face removal	Chalk-Board
47 L43 Depth sort algorithm Chalk-Board	45	L41	Depth Buffer algorithm	Chalk-Board
	46	L42	Scan-line algorithm	Chalk-Board
48L44ShadingChalk-Board	47	L43	Depth sort algorithm	Chalk-Board
	48	L44	Shading	Chalk-Board

Name of the Faculty:		Er. Priyanka	a Chauhan	
Discip	oline:		BCA	
Semes			4 th	
Subje				e (B23-VAC-417)
Work	WorkLoad (Lecture/Practical)perweek(Inhours): Lecture			
Sl	Lecture	Theory		
No.	No.	Topic(Including Assignment/Tes	st/Quiz)	Pedagogy (PPT& Chalk- Board and Board/Video Recording /Activity/Case Study)
1	L1	Introduction to E-Commerce		Chalk-Board
2	L2	Nature & Concepts of E-Commer	ce	PPT & Chalk-Board
3	L3	Advantages & reasons for transac	ting online	PPT
4	L4	Categories of E-commerce		Chalk-Board
5	L5	Planning Online Business		PPT & Chalk-Board
6	L6	Nature and Dynamics of the Internet	Nature and Dynamics of the Internet	
7	L7	Pure Online vs. Brick		PPT & Chalk-Board
8	L8	Click Business.		PPT & Chalk-Board
9		Query session, & Assignment-1		
10	L9	Technology for Online Business – Internet		PPT
11	L10	IT Infrastructure in Business		PPT & Chalk-Board
12	L11	Middleware Contents		Chalk-Board
13	L12	Text and Integrating E-Business App	lications	PPT & Chalk-Board
14	L13	Mechanism of making Payment through	1gh Internet	Chalk-Board
15	L14	Online Payment Mechanism		PPT
16	L15	Electronic Payment Systems		PPT
17	L16	Payment Gateways.		PPT & Chalk-Board
18		Query Session		
19	L17	Applications in E-Commerce		PPT & Chalk-Board
20	L18	E-Commerce Applications in Manufacturing		Chalk-Board
21	L19	Wholesale Manufacturing		Chalk-Board
22	L20	Retail Sector Manufacturing		Chalk-Board

23	L21	Service Sector Manufacturing	Chalk-Board
24		Query Session	
25	L22	Introduction to Virtual Existence in E-Commerce	Chalk-Board
26	L23	Virtual Existence Concepts using real life examples	PPT & Chalk-Board
27	L24	Working of Virtual Existence	Chalk-Board
28	L25	Advantages and Pitfalls of Virtual Organizations	Chalk-Board
29	L26	Security in E-commerce	PPT & Chalk-Board
30	L27	Digital Signatures	Chalk-Board
31	L28	Network Security	PPT & Chalk-Board
32		Query Session	
33	L29	Data Encryption Secret Keys	PPT & Chalk-Board
34	L30	Data Encryption.	Chalk-Board
35		Assignment 2	On paper

Name of th	e Faculty:	Ms. Chetna Sin	igh
Discipline : Semester :		BCA	
		4th	
Subject :		Software Testin	g
Work Load	l (Lecture/Practical) per week (In hours) : Lecture - 4	
S.No.	Lecture	Theory	
	No.	Topic(Including Assignment/Test/Quiz	z) Pedagogy (PPT/Chalk and Board/Video Recording /Activity/Case Study)
1.	L1	Definition of Software Testing and its Ro	ble Chalk and Board
2.	L2	Terms: - Failure, Error, Fault, Defect, Bug	Chalk and Board
3.	L3	Goals of Testing	Chalk and Board
4.	L4	Principles of Testing	Chalk and Board
5.	L5	Software Testing Life Cycle	Chalk and Board
6.	L6	Verification and Validation: - V-testing Life cycle	Chalk and Board
7.	L7	Revision of Unit -1	Chalk and Board, PPT
8.	L8	Class Test	On Paper
9.	L9	Types of Testing	Chalk and Board
10.	L10	Black Box Testing: Overview: What is & When?	Chalk and Board
11.	L11	Techniques : Boundary Value Analysis	Chalk and Board
12.	L12	Equivalence Class Testing	Chalk and Board
13.	L13	Decision Table White Box Testing : What is white box Testing	t Chalk and Board
		Assignment -1	On Paper
14.	L14	Need of white box Testing	Chalk and Board
15.	L15	Classification	Chalk and Board
16.	L16	Structural : Coverage, Path testing	Chalk and Board

17.	L17	Revision of Unit – 2	Chalk and Board , PPT
18.	L18	Class Test	Oral Test
19.	L19	Levels of Testing : Unit Testing : Overview	Chalk and Board
20.	L20	Integration Testing	Chalk and Board
21.	L21	Techniques: Graph based & Path based	Chalk and Board
22.	L22	Functional Testing	Chalk and Board
23.	L23	System Testing : Overview,	Chalk and Board
24.	L24	Categories: Reliability Security Performance Recovery	Chalk and Board
25.	L25	Acceptance Testing : Overview	Chalk and Board
26.	L26	Types of Acceptance Testing	Chalk and Board
27.	L27	Revision of 3 rd Unit	Chalk and Board, PPT
28.	L28	Class Test	Oral Test
29.	L29	Test Planning	Chalk and Board
30.	L30	Preparing a Test plan	Chalk and Board
31.	L31	Scope management	Chalk and Board
32.	L32	Decide Test Approach	Chalk and Board
		Assignment - 2	On Paper
33.	L33	Setting Up Criteria for Testing	Chalk and Board
34.	L34	Identifying responsibilities	Chalk and Board
35.	L35	Staffing, training needs	Chalk and Board
36.	L36	Resource requirements	Chalk and Board
37.	L37	Test deliverables	Chalk and Board
38.	L38	Testing Tasks	Chalk and Board
39.	L39	Revision of 4 th Unit	Chalk and Board, PPT
40.	L40	Class Test	Oral Test
41.	L41	Doubt from Any Unit	Chalk and Board

Name	of the Faculty	: Mr Harshit	Mr Harshit	
Discip	line:	BCA	IVth English Language and Communication Skill: Level 4 (B23-AEC-411)	
Semes	ter:	IVth		
Subje		Skill: Level 4 (B23-AEC-411)		
Work (In ho		Practical) per week Lecture-3		
S. No	Lecture No.	Theory		
		Topic (Including Assignment/Test/Quiz)	Pedagogy (PPT/Chalk and Board/Video Recording /Activity/Case Study)	
1.	L1.	Word formation and Types of formation	Chalk and Board	
2.	L2.	Method of word formation (Compounding, Blending,)	Chalk and Board	
3.	L3.	Back formation, Functional Conversion,	Chalk and Board	
4.	L4.	Acronyms, Coinage	Chalk and Board	
5.	L5.	Borrowing & Affixation	Chalk and Board	
6.	L6.	Suffix and Prefixes	Chalk and Board	
		Assignment 1	On Paper	
7.	L7.	Sentence, Clause, phrase	Chalk and Board	
8.	L8.	Types of Sentences and Conjunctions	Chalk and Board	
9.	L9.	Rules for transformation of sentences (Simple to Compound and vice-versa)	Chalk and Board	
10.	L10.	Rules for transformation of sentences (Simple to Complex and vice-versa)	Chalk and Board	
11.	L11.	Rules for transformation of sentences (Compound to Complex and vice-versa)	Chalk and Board	
12.	L12.	What is Public Speech	Chalk and Board	

13.	L13.	Public Speaking: Confidence, Clarity and Fluency	Chalk and Board
14.	L14.	Modes of Speech delivery	Chalk and Board
15.	L15.	Proxemics and Chronemics	Chalk and Board
16.	L16.	What is Persuasion	Chalk and Board
17.	L17.	Persuasion Techniques: Appealing, Rhetorical Questions	Chalk and Board
18.	L18.	Persuasion Techniques: Humor, Colloquial	Chalk and Board
19.	L19.	Persuasion Techniques: Evidence, Anecdotes	Chalk and Board
20.	L20.	Starting a conversation technique: Do's and Don'ts	Chalk and Board
21.	L21.	Controlling a conversation technique: Do's and Don'ts	Chalk and Board
22.	L22.	Coherence and unity in a Paragraph	Chalk and Board
23.	L23.	Transition words and phrases learning Contextual Vocabulary through Reading a passage or Literary text	Chalk and Board
24.	L24.	Connections function to develop, relate, connect and move idea	Chalk and Board
25.		Assignment 2	On Paper