

Lesson Plan

Name of the Faculty:		Ms. Anuradha	
Discipline:		B.Tech (CSE)	
Semester:		8th	
Subject:		Computer Graphics(PE-CS-A404A)	
Work Load (Lecture/Practical) per week (In hours):		Lecture-3	
S.No	Lecture s No.	Topics Topic (Including Assignment/Test/Quiz)	Pedagogy (PPT/Chalk and Board/Video Recording /Activity/Case Study)
1.	L1	Computer Graphics applications	PPT
2.	L2	Display Devices	Video
3.	L3	Point & Positioning Devices	Video
4.	L4	Plotting Techniques for point and Line	PPT
5.	L5	Line drawing algorithms	PPT
6.	L6	DDA Line drawing algorithm	PPT
7.	L7	Bresenhams's Circle drawing algorithm	PPT
8.	L8	Bresenhams's Circle drawing algorithm: Numericals	PPT
9.	L9	Filled area algorithms	PPT
10.	L10	Boundary filled algorithm	PPT
11.	L11	Scan line Polygon filling	PPT
12.		Assignment1: Numericals on line and circle drawing algorithms	
13.	L12	Window to view port transformation	Chalk and Board
14.	L13	Window to view port mapping	Chalk and Board
15.	L14	Two Dimensional transformation	PPT
16.	L15	translation, scaling, rotation	PPT
17.	L16	reflection and Shear	PPT
18.	L17	Homogeneous Coordinate system	PPT
19.	L18	3-D transformation: Rotation, Shear, translation	PPT
20.	L19	Numerical Problems of transformation viewing pipeline	PPT
21.		Assignment2: Numericals of 2D and 3D transformations	
22.	L20	Clipping	Chalk and Board
23.	L21	Point & Line clipping algorithm	Chalk and Board
24.	L22	4-bit code algorithm	PPT
25.	L23	Cohen-Sutherland Line clipping algorithm	PPT
26.	L24-	Liang-Barsky line clipping algorithm	PPT
27.	L25	Polygon clipping: Sutherland-Hodgeman Polygon clipping algorithm	PPT

28.	L26	Curve clipping, Text clipping	PPT
29.	L27	Projection: Parallel, Perspective	PPT
30.	L28	Parallel Projection	PPT

31.	L29	Perspective Projection	PPT
32.	L30	Vanishing Points	PPT
33.		Assignment 3: Compare parallel and perspective projection	
34.	L31	Representation of 3-D Curves and Surfaces	PPT
35.	L32	Interpolation and approximation alpires	PPT
36.	L33	Parametric conditions	PPT
37.	L34	Geometric continuity conditions	PPT
38.	L35	Beizer curves and surfaces	PPT
39.	L36	Properties of beizer curves	PPT
40.	L37	Beizer surfaces	PPT
41.	L38	Hidden Surfaces removal	PPT
42.	L39	Hidden surface elimination	PPT
43.	L40	Depth buffer algorithm	PPT
44.	L41	Scan line coherence and,	PPT
45.	L42	Area coherence algorithm	PPT
46.	L43	Painter's algorithm	PPT

Lesson Plan

Name of the Faculty:		Ms. Urvashi	
Discipline:		B.Tech (CSE)	
Semester:		8th	
Subject:		Cyber Security (OE-CS-402A)	
Work Load (Lecture/Practical) per week (In hours):		Lecture-3	
S.No	Lecture No.	Theory	Pedagogy (PPT/Chalk and Board/Video Recording /Activity/Case Study)
		Topic (Including Assignment/Test/Quiz)	
1.	L1	Unit-1: Fundamentals of Cyber Crime, Nature & Scope of Cyber Crime	Chalk & Board
2.	L2	Types of Cyber Crime: crime against individual, Crime against property, Cyber extortion, Drug trafficking, cyber terrorism	Chalk & Board
3.	L3	Cryptanalysis-steganography, stream & block ciphers, modern block ciphers	Chalk & Board
4.	L4	Block cipher principles, Shannon's theory of confusion and diffusion, feistel structure	Chalk & Board
5.	L5	Data Encryption Standard (DES), strength of DES, Differential and linear crypt analysis of DES	PPT, Chalk & Board
6.	L6	Block cipher modes of operations	Chalk & Board
7.	L7	Triple DES-AES	Chalk & Board
8.	L8	Doubt Session	
9.		Assignment	On Paper
10.	L9	Unit-2: Integrity checks and authentication algorithms, MD5 message digest algorithm	PPT, Chalk & Board
11.	L10	Secure Hash Algorithm (SHA)	PPT, Chalk & Board
12.	L11	Digital Signatures, authentication protocols	Chalk & Board
13.	L12	Digital signature standards (DSS)	Chalk & Board
14.	L13	Proof of digital signature algorithm, authentication application	Chalk & Board
15.	L14	Kerberos and X.509	Chalk & Board
16.	L15	Directory authentication service, electronic mail security	Chalk & Board
17.	L16	Pretty good privacy (PGP), S/MIME	Chalk & Board
18.	L17	Revision	
19.		Quiz	Online

20.	L18	Unit-3: Introduction to cyber-attacks: passive attacks, active attacks, Cyber-crime prevention methods	Chalk & Board
21.	L19	Application security (Database, E-mail and Internet), Data Security Considerations-Backups, Archival Storage and Disposal of Data	PPT
22.	L20	Security Technology-Firewall and VPNs, Intrusion Detection	Chalk & Board
23.	L21	Access Control, Hardware protection mechanisms, OS Security	Chalk & Board
24.	L22	Web Security: Secure socket layer and transport layer	Chalk & Board
25.	L23	Security-secure electronic transaction (SET)	Chalk & Board
26.	L24	System security: Intruders-Viruses and related threats	Chalk & Board
27.	L25	Firewall design principles, trusted systems	Chalk & Board
28.		Assignment-2	Chalk & Board
29.	L26	Unit-4: Digital Forensics: Introduction to Digital Forensics, historical background of digital forensics, Software and Hardware	PPT
30.	L27	Need, special tools and techniques digital forensic life cycle	PPT
31.	L28	Challenges in digital forensic	PPT
32.	L29	Law Perspective: Introduction to the Legal Perspectives of Cybercrimes and Cyber security	Chalk & Board
33.	L30	Cybercrime and the Legal Landscape around the World, Why Do We Need Cyber laws, Cybercrime Scenario in India,	Chalk & Board
34.	L31	Digital Signatures	Chalk & Board
35.	L32	Indian IT Act 2000	PPT, Chalk & Board
36.	L33	Cybercrime and Punishment	PPT, Chalk & Board
37.	L34	IP Security: Architecture-Authentication header, Encapsulating security payloads	Chalk & Board
38.	L35	Combining security associations, key management	Chalk & Board
39.	L36	Doubt Session	

Lesson Plan

Name of the Faculty:		Ms. Ruchi Gupta	
Discipline:		B.Tech (CSE)	
Semester:		8th	
Subject:		Web and Internet Technology(OE-CS-410A)	
Work Load(Lecture/Practical) per week (In hours):		Lecture-3	
S.No	Lecture No.	Theory	
		Topic(Including Assignment/Test/Quiz)	Pedagogy (PPT/Chalk and Board/Video Recording /Activity/Case Study)
1.	L1.	Internet, Growth of internet, anatomy of internet	Chalk and Board
2.	L2.	Internet history, Internet terminology, application	PPT, Chalk and Board
3.	L3.	Governance on the internet.	Chalk and Board
4.	L4.	Impact of internet on society	Chalk and Board
5.	L5.	Role of information architect	Chalk and Board
6.	L6.	Collaboration and communication	Chalk and Board
7.	L7.	Organizing information	Chalk and Board, PPT
8.	L8.	Organizing web sites and intranets	PPT, Chalk and Board
9.	L9.	Creating cohesive organization system	Chalk and Board
10.	L10	Designing navigation systems	Chalk and Board, PPT
11.	L11	Types of navigation system	Chalk and Board, PPT
12.	L12.	Integrated navigation elements, Searching your web sites	Chalk and Board
13.	L13.	Designing the Search interface	Chalk and Board
14.		Assignment Topic:Unit-1 and Test	Offline
15.	L14.	Hardware requirement	Chalk and Board
16.	L15.	Selection modem, Software requirement	Chalk and Board
17.	L16.	Modem configuration ,common terminology	Chalk and Board

18.	L17.	Node ,Host, Workstation ,Bandwidth	Chalk and Board
19.	L18.	Interoperability ,network administrator	Chalk and Board
20.	L19.	Network Security ,network components	Chalk and Board
21.	L20	Servers ,Clients, Communication medias,	Chalk and Board
22.	L21	Email ,News ,Firewall	Chalk and Board
23.	L22	Introduction to XHTML and HTML5	Chalk and Board
24.	L23.	Origins and Evolution of HTML and XHTML	Chalk and Board
25.	L24	Basic syntax, Standard XHTML document structure	Chalk and Board and PPT
26.	L25	Basic text markup ,images	Chalk and Board and PPT
27.	L26	Hypertext ,links ,lists, Tables ,forms	Chalk and Board and PPT
28.	L27	Difference between HTML and XHTML	Chalk and Board
29.	L28	Cascading style sheets ,introduction	Chalk and Board
30.	L29	Levels of style sheet , Style specification formats	Chalk and Board
31.	L30.	Selector Forms , Property value forms	Chalk and Board
32.	L31.	Font properties ,list properties, Color, Alignment of text	Chalk and Board
33.	L32	Box Model , Background images, Design with Functions	Chalk and Board
34.		Query Session Unit-2	Offline
35.		Assignment-2	Offline
36.	L33	Introduction to python ,Application of python	Chalk and Board and PPT
37.	L34.	Data types, Branching programs	Chalk and Board, PPT
38.	L36	Iteration ,Function and scoping ,	Chalk and Board
39.	L37	Recursion and global variables	Chalk and Board
40.	L38.	Creation ,insertion , Deletion of items	Chalk and Board, PPT
41.	L39.	Abstract data types and classes ,inheritance	Chalk and Board
42.	L40.	Encapsulation and information hiding, File handling	Chalk and Board,
43.	L41	Exception handling database ,File check,	Chalk and Board,

44.	L42	Table creation, Insertion, deletion of data	Chalk and Board
45.	L43	Regular expression in python	Chalk and Board, PPT