Lesson Plan

Name of the Faculty:	**Dr. Bhawna Sharma/ Er. Navneet/ Er. Shilpa**
Discipline:	**B.Tech (CSE)**
Semester:	**8th**
Subject:	**Computer Graphics(PE-CS-A404A)**
Work Load (Lecture/Practical) per week (In hours):	**Lecture-3**

S.No	Lectures 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 alpines	**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:	**Dr. Meenakshi/ Er. Kamal/ Er. Simran**
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	
		Topic (Including Assignment/Test/Quiz)	**Pedagogy (PPT/Chalk and Board/Video Recording /Activity/Case Study)**
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, fiestal 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:	**Dr. Monika/ Er. Nidhi/ Er. Ritu Rajal**
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