#### Lesson Plan

Name	MRS. BARSHARANI	Total Hrs planned:60	
Name	PATEL	Total Hrs per week: 04	
Designation	PTGF		
Subject: Code/Name	Th.3	SOFTWARE ENGINEERING	
Semester/Programme/ Department	/ 5 <sup>th</sup> SEMESTER/ Diploma/ Information Technology		
Course Objective	<ul> <li>and their appropri</li> <li>Basic knowledge and design of complex system.</li> <li>Ability to apply softw technique.</li> <li>Ability to develop masystem.</li> <li>Ability to performind</li> <li>To communicate and speaking, reading and general purposes.</li> <li>Ability to work as an engineering team.</li> <li>To manage time proses.</li> </ul>	W engineering methods and practices riate application I understanding of the analyses and stem. ware engineeringprincipals and aintain and evaluate large scale software dependent, research and analysis. I coordinate competently by listening, and writing English for technical and effective member or leader of software ses and resources effectively by o achieve personal and teams goals	

Sl No	Period / Class	Time (min)	Unit	Detail Description of Topics/Subtopics	Mode of Lecture	References (Text Book and reference book Page Noto)
1	1	55	1	Introduction to Software Engineering.	Chalk & talk	TB1: 1 to 53
2	255		1	Program vrs Software product	Chalk & talk	TB1: 6
3	355		1	Emergencies of Software Engineering.	Chalk & talk	TB1: 15
4	455	1	1	Computer System Engineering.	Chalk & talk	TB1: 25
5	555		1	Software Life Cycle Models.	Chalk & talk	TB1: 30 to 48
6	655			Classical Water fall model	Chalk & talk	TB1: 33 to 40
7	755			Iterative Water fall model	Chalk & talk	TB1: 41 to 42
8	855		1	Prototyping model	Chalk & talk	TB1: 43 to 44
9	955			Evolutionary model	Chalk & talk	TB1: 45 to 47
10	10	55	1	Spiral model	Chalk & talk	TB1: 48
11	11	55	1	Revision Chapter - 1	Questio ners	
12	12	55	2	Software Project Management	Chalk & talk	TB1: 57 to 107
13	13	55	2	Responsibilities of Project Manager	Chalk & talk	TB1- 57 to 58
14	14 55		2	Project Planning	Chalk & talk	TB1:58
15	15	55	2	Metrics for project size estimation (LOC & FP)	Chalk & talk	TB1:61 to 63
16	16	55	2	Project Estimation Techniques	Chalk & talk	TB1:66 to 68
17	17	55	2	COCOMO Models, Basic,Intermediate and complete	Chalk & talk	TB1: 68 to 74
18	1855	5	2	Scheduling Scheduling	Chalk & talk	TB1: 83
19	19	55	2	Organization and Team Structure	Chalk & talk	TB1: 89 to 91
20	20	55	2	Staffing	Chalk & talk	TB1: 93 to 94
21	21	55	2	Risk Management	Chalk & talk	TB1: 95 to 97

22	22	55	2	Configuration Management.	Chalk &	TB1: 98 to 103
02	22		2		talk	
23	23	55	2	Davisian Chantan 2	Questio	
24	24		2	Revision Chapter - 2	ners	TD1, 100 /-
24	24	55	3	Requirement Analysis and	Chalk &	TB1: 108 to
25	25		2	Specification	talk	148
25	25	55	3	Requirements gathering and analysis	Chalk &	TB1: 109 to
26	2.5				talk	112
26	26	55	3	Software Requirements Specification.	Chalk &	TB1: 114
27	27			(SRS)	talk	FD 1 115
27	27	55	3	Contents of SRS	Chalk &	TB1: 115
					talk	
28	28	55	3	Characteristics of Good SRS	Chalk &	TB1: 115
					talk	
29	29	55	3	Organization of SRS	PPT	TB1: 125
30	30	55	3	Techniques for representing complexion	Chalk &	TB1: 129
			_	logic.	talk	
31	31	55	3	- C	Questio	
			3	Revision Chapter - 3	ners	
32	32	55	4	Software Design	Chalk &	TB1: 149 to
32	32	33		Software Design	talk	202
33	33	55	4	What is a good S/W design.	Chalk &	TB1: 152
33	33	33	-	what is a good 5/ w design.	talk	101. 132
34	34	55	4	Cohesion and coupling.	Chalk &	TB1: 155 to
34	34	33	4	Conesion and coupling.	talk	159
35	35	55	4	Eat arrangement	Chalk &	TB1: 160
					talk	
36	36	55	4	S/W Design approaches	Chalk &	TB1: 162 to
					talk	163
37	37	55	4	Structured analysis	Chalk &	TB5: 172
•					talk	
38	38	55	4	Data Flow Diagrams	Chalk &	TB1: 172 to 193
20	20	55	A	Country to the DED	talk	TD1, 172
39	39	55	4	Symbols used in DFD	Chalk & talk	TB1: 173
40	40	55	4	Designing DFD	Chalk &	TB1: 174
+0	70	55	4	Designing Dr D	talk	101.1/7
41	41	55	4	Developing DFD model of a system	Chalk &	TB1:177
			•	Do to oping DID model of a system	talk	
42	42	55	4	Short coming of DFD	Chalk &	TB1:193
			•		talk	
43	43	55	4	Structured Design	Chalk &	TB1: 194
					talk	
44	44	55	4	Principles of transformation of DFD to	Chalk &	TB1: 196
				Structure Chart	talk	
45	45	55	4	Transform analysis and Transaction	Chalk &	TB1: 196 to 197
				Analysis	talk	
46	46	55	4	Design Review	Chalk &	TB1: 201
					talk	
47	47	55	4	Revision Chapter - 4	Question	
1					1	1

					ers	
48	48	55	5	User Interface Design	Chalk &	TB1: 300 to 322
					talk	
49	49	55	5	Characteristics of good interface	Chalk &	TB1: 301
50	50	55	5	Basic concepts of UID	talk Chalk &	TB1: 303 to 304
30	30	33	3	Basic concepts of OID	talk	101. 303 10 304
51	51	55	5	T	Chalk &	TB1: 305 to 307
31	31	33	3	Types of user interfaces	talk	1 1 1 1 303 10 307
52	52	55	5	Components based GUI development	Chalk &	TB1: 308 to 315
32	32	33	3	Components based Got development	talk	111. 300 to 313
53	53	55	5	Revision Chapter - 5	Question	
				Revision Chapter - 3	ers	
54	54	55	6	<b>Software Coding And Testing</b>	Chalk &	TB1: 323 to 369
					talk	
55	55	55	6	Coding	Chalk &	TB1: 324
<i></i>				G 1 P	talk	TED 1 20 6
56	56	55	6	Code Review	Chalk &	TB1: 326
57	57	55	6	Code walk through	talk Chalk &	TB1: 327
31	31	33	O	Code walk through	talk	101. 527
58	58	55	6	Code inspections and software	Chalk &	TB1: 327
	50		3	Documentation	talk	===: 52,
59	59	55	6	Testing	Chalk &	TB1: 331 to 334
			Ŭ.	- Louing	talk	
60	60	55	6	Unit Testing	Chalk &	TB1: 334 to 335
					talk	
61	61	55	6	Black Box Testing	Chalk &	TB1: 336 to 338
					talk	
62	62	55	6	Equivalence class partitioning and	Chalk &	TB1: 336
				boundary value analysis	talk	
63	63	55	6	White Box Testing	Chalk &	TB1: 338
<i>c</i> 1				Dicc ATT D	talk	ED 1 220 : 247
64	64	55	6	Different White Box methodologies	Chalk & talk	TB1: 338 to 347
				statement coverage branch coverage,	taik	
				condition coverage, path coverage,		
				cyclamates complexity data flow based		
65	65	55		testing and mutation testing.	Chalk &	TD1. 240
65	03	55	6	Debugging approaches	talk	TB1: 348
66	66	55	6	Debugging guidelines	Chalk &	TB1: 349
50	00	55	0	Deougging guidennes	talk	101. 57/
67	67	55	6	Integration Testing	Chalk &	TB1: 351
	· .	- <del>-</del>	9		talk	
68	68	55	6	Phased and incremental integration	Chalk &	TB1: 352
				testing	talk	
69	69	55	6	System testing alphas beta and	Chalk &	TB1: 356
				acceptance testing	talk	
70	70	55	6	Performance Testing, Error seeding	Chalk &	TB1: 357
					talk	
71	71	55	6	General issues associated with	Chalk &	TB1: 360
				testing	talk	
72	72	-55	6		Question	

				Revision Chapter - 6	ers	
73	73	55	7	Software Reliability		TB1: 370 to 395
74	74	55	7	Software Reliability	Chalk & talk	TB1: 371
75	75	55	7	Different reliability metrics	Chalk & talk	TB1: 373
76	76	55	7	Reliability growth modeling	Chalk & talk	TB1: 375
77	77	55	7	Software quality	Chalk & talk	TB1: 377
78	78	55	7	Software Quality Management System	Chalk & talk	TB1: 377 to 379
79	79	55		Problems and Revision	Chalk & talk	
				Text Book- 1 (TB1): Fundamentals of Software Engineering. – Rajib Mall, Prentice hall of Indi		

#### Lesson Plan

Name	SABYASACHI SARANGI	Total Hrs planned:60  Total Hrs per week: 04	
Designation	PTGF	Pre requisite: Programming Using C	
Subject: Code/Name	CST-501	Computer Graphics & Multimedia	
Semester/Programme/ Department	5th Semester/ Diploma/ Information Technology		
Course Objective	After completion of this course the student will be able to: Graphics and Multimedia-now a day probably the most talked about technology in the field of computer. This technology is nowadays largely adopted by most computer-based applications to bridge the gap between a human user & the computer. By this, multiple media are implemented and used in computer-based application to enhance their understanding ability before a common man. These multiple media include text, sound, video, graphics animation etc. This paper will expense the students to the various concepts of these media and their implementation in computer-based application. This will also expose the students to various multimedia implementation techniques like data compression, & various multimedia standards.		

Sl. No	Detail Description of Topics/Subtopics	Mode of Lectur e	References (Text Book and reference book Page Noto)
1	<b>Chapter1:</b> Introduction to applications of	Chalk	TB1: 2
	Computer Graphics & Multimedia	& talk	
2	Computer graphics in CAD	PPT	TB1: 4,5
3	Presentation Graphics	Chalk & talk	TB1: 11,12
4	Computer Art & Entertainment	Chalk & talk	TB1: 13 to 18
5	Education & Training, Visualization	Chalk & talk	TB1: 21 to 25
6	Image Processing & Graphic User Interface	Chalk & talk	TB1: 32 to 34
7	Concept of Multimedia	Chalk & talk	TB2: 5,6
8	Revision of Chapter1	Questi onaries	
6	<b>Chapter2:</b> Introduction to Overview of Graphics System	PPT	TB1: 35
7	Graphics System	Chalk & talk	TB1: 36,37
8	Raster Scan Display & Random Scan Display	Chalk & talk	TB1: 40,41
9	Graphics Input Devices	Chalk & talk	TB1: 60 to 70
10	Graphics Software	PPT	TB1: 75
11	Revision of Chapter 2	Questi onaries	
16	Chapter3: Introduction to Graphics	Chalk	TB1: 83
	Output primitive	& talk	
17	Points & Lines	Chalk & talk	TB1: 84
18	DDA Line Drawing Algorithm	Chalk & talk	TB1: 86, 87
19	Bresenham's Line drawing Algorithm	Chalk & talk	TB1: 88
20	Filled Area Primitives	Chalk & talk	TB1: 117
21	Boundary fill algorithm, Flood fill algorithm	Chalk & talk	TB1: 127 to 130
22	Revision of Chapter 3	Questi onaries	
23	Revision of Chapter1 to 3	Quiz	

24	Chapter4: Two Dimensional Geometric	PPT	TB1: 184
24	Transformations		151. 104
25	Translation	Chalk	TB1: 184
		& talk	1211101
26	Rotation	Chalk	TB1: 184
		& talk	
27	Scaling	Chalk	TB1: 184
		& talk	
28	Reflection	Chalk	TB1:201
		& talk	
29	Shear	Chalk	TB1:203
		& talk	
30	Matrix representation and Homogenous	Chalk	TB1:188
21	coordinate system	& talk	TD1 101 /
31	Composite transformation	Chalk	TB1:191 to
22	Davisian of Chapter 4	& talk	194
32	Revision of Chapter 4	Questi onaries	
33	Chapter5: Two-Dimensional Viewing	Chalk	TB1: 216
33	Chapter 5. 1 wo-Dimensional Viewing	& talk	1B1. 210
34	Viewing pipeline	Chalk	TB1: 217
34	viewing piperine	& talk	101. 217
35	Viewing coordinate reference frame	Chalk	TB1: 219
	viewing coordinate reference frame	& talk	151.219
36	Window to view port coordinate	Chalk	TB1: 220
	transformation	& talk	
37	Line clipping concept	Chalk	TB1: 225,226
		& talk	ŕ
38	Polygon clipping concept	PPT	TB1: 237, 238
39	Revision of Chapter 5	Questi	
		onaries	
40	Chapter6: Three-Dimensional Object	Chalk	TB1: 304
	Representations	& talk	
41	Polygon surface & Table	PPT	TB1:305, 306
42	Plane equation	Chalk	TB1:307,308
4.2		& talk	mp 1 200
43	Polygon mesh	Chalk	TB1:309
1.1	One deie confesse	& talk	TD1. 210
44	Quadric surfaces	Chalk & talk	TB1: 310
45	Sphere, Ellipsoid	PPT	TB1: 311
46	Spline representation	Chalk	TB1: 315
40	Spinie representation	& talk	101.313
47	Bezier curves & Surfaces	Chalk	TB1: 327 to
''	2 Eller Car ( Co & Surface)	& talk	329
48	B-Spline curves & surfaces.	Chalk	TB1: 334, 335
	- Fine carries of surfaces.	& talk	
49	Revision of Chapter 6	Questi	
	1	onaries	
50	Chapter7: Three Dimensional Geometric	Chalk	TB1: 407

	& Modeling Transformations	& talk	
51	Translation, Rotation, Scaling, Reflection,	PPT	TB1: 408 to
	Shear		423
52	Composite transformation	Chalk	TB1: 423
	r r r r r r r r r r r r r r r r r r r	& talk	
53	Modeling & Coordinate transformation.	Chalk	TB1: 426 to
		& talk	428
54	Revision of Chapter 7	Questi	-
	The state of the s	onaries	
55	Chapter8: Three-Dimensional Viewing	Chalk	TB1: 431
	Camptor of Times Dimensional Flowing	& talk	
56	Viewing pipeline	Chalk	TB1: 432
	S F F	& talk	
57	Viewing coordinates	Chalk	TB1: 433
	8	& talk	
58	Parallel projection & Perspective	Chalk	TB1: 438 to
	projection	& talk	443
59	Concept of 3D clipping.	PPT	TB1: 456 to
	ormely and in-prince.		460
60	Revision of Chapter 8	Questi	
	Tio vision of chapter o	onaries	
61	Chapter 9: Illumination Model &	Chalk	TB1: 494
	Surface Rendering Methods	& talk	
62	Different light sources used in 3D	Chalk	TB1: 496
02	Modeling	& talk	111. 470
63	Basic Illumination model	PPT	TB1: 497
64	Ambient light	Chalk	TB1: 497
01	7 moreix fight	& talk	151. 177
65	Diffuse reflection & Specular reflection	Chalk	TB1: 497
	Ziniuse romentium ee zipeeuma romentium	& talk	
66	Revision of Chapter 9	Questi	
	Tio vision of Chapter y	onaries	
67	Chapter 10: Introduction to Digital	PPT	TB2: 66
0,	Audio		122.00
68	Basics of Acoustics, Psychoacoustics	PPT	TB2: 66
69	Musical sound and noise, elementary	Chalk	TB2: 66 to 68
	sound system	& talk	152. 00 10 00
70	Microphones, Amplifiers, digital audio	Chalk	TB2: 68 to 71
, 3	formats	& talk	122. 00 10 /1
71	Audio compression (LPC, Sub Band	Chalk	TB2: 72 to 75
	Encoding)	& talk	122.72.073
72	Revision of Chapter 10	Questi	
		onaries	
73	Chapter 11: Introduction to Digital	PPT	TB2: 75
	Image		
74	Vector and raster Graphics	Chalk	TB2: 75,76
, ,	, cotor and ruster Grapines	& talk	152. 75,70
75	Digital representation of image, colour,	Chalk	TB2: 76,77
	16-bit, 24-bit colour depth	& talk	122.70,77
L		or min	1

76	Colour Characteristics-Hue, saturation,	Chalk	TB2: 77
' 0	Luminance & Colour Palette	& talk	102.77
77	Image formats-JPEG, BMP, TIFF, GIFF	Chalk	TB2: 77 to 82
' '	& Image evaluation	& talk	132. 77 to 02
78	Layers & Filters	Chalk	TB2: 82 to 84
, 0	Zajers & There	& talk	122. 02 10 0 .
79	Image manipulation-scaling, cropping,	Chalk	TB2: 84 to 85
	rotation	& talk	
80	Revision of Chapter 11	Questi	
	1	onaries	
81	Chapter 12: Introduction to Video	PPT	TB2: 86
82	Video in Multimedia	PPT	TB2: 86
83	Basics of Motion-Video & Sources of	Chalk	TB2: 86,87
	Motion-Video	& talk	
84	Video formats, lines, frames, fields	Chalk	TB2: 87,88
		& talk	
85	TV Broadcast standards-PAL, NTSC,	Chalk	TB2: 88, 89
	SECAM	& talk	
86	MPEG Compression	Chalk	TB2: 89
		& talk	
87	Revision of Chapter 12	Questi	
		onaries	
88	Problems and revision	Questi	
		onaries	
		& Quiz	

Sl.	Name of Authors	Title of the Book	Name of the
No.			Publisher
TB1	Donald Hearn, M.Pauline	Computer Graphics	PHI
	Baker		
TB2	Buford	Multimedia Systems	Pearson
TB3	Jose Lozano	Multimedia: Sound and Video	PHI
TB4	S.Pandey, M.Pandey	Multimedia Systems, Tech. & Communications	Katson

Name	MRS. BARSHARANI PATEL	Total Hrs planned:60 Total Hrs per week:04
Designation	PTGF	Pre requisite
Subject: Code/Name	Th.2	Internet and Web Technology
Semester/Programme / Department	6 <sup>th</sup> SEMESTER/Diploma/Information Technology	
Course Objective	<ul> <li>Internet is the buzz word in today's society.</li> <li>It is a vast pool of information.</li> <li>Without the knowledge of internet we are in total darkness.</li> <li>This paper deals with TCP/IP which is the backbone of internet.</li> <li>Web pages are used to project the profile on an organization, product or person etc.</li> <li>This paper also deals with the design aspect of</li> </ul>	

SI.No	Detail Description of Topics/Subtopics	Mode of Lecture
1.	Internet fundamental	Chalk & talk
1.1	Motivation for internet working.	
1.2	Internet architecture board.	Chalk & talk
1.3	Internet protocol and standardization.	Chalk & talk
1.4	Role of ISP and factors of choosing an ISP.	Chalk & talk Chalk & talk
1.5	Internet service providers in india.	
1.6	Types of connectivity such as dial up, leased,	Chalk & talk
	VSAT etc.	Chalk & talk
1.7	Properties of internet.	Chalk & talk
1.8	Internet architecture.	Chalk & talk
1.9	Interconnection through IP router.	Chalk & talk
1.10	All networks are equal.	Chalk & talk
1.11	Internet address.	Chalk & talk
1.12	Original cassfull addressing scheme	Chalk & talk
1.13	Adress specify network connections	Chalk & talk
1.14	Dotted decimal notation	Chalk & talk
1.15	Internet addressing authority	Chalk & talk

2	TCP / IP	
2.1	TCP / IP internet layering model	Chalk & talk
2.2	Reliable stream transport service	
	Need for stream delivery	Chalk & talk
2.3	Properties of reliable delivery service	Chalk & talk
2.4	Providing reliability	Chalk & talk
2.5	Idea behind slide window	Chalk & talk
2.6	Port connection and end points, segments,	
	streams sequence numbers	Chalk & talk
2.7	TCP segment format	Chalk & talk
2.8	TCP header	Chalk & talk
2.9	TCP checksum	Chalk & talk
2.10	Acknowledgement	Chalk & talk
2.11	Timeout and retransmission	Chalk & talk
2.12	Respond to conjunction	Chalk & talk
2.13	Establishment of a TCP connection	Chalk & talk
2.14	Source and destination address	Chalk & talk
2.15	Protocol number	Chalk & talk
2.16	Checksum	Chalk & talk
2.17	Closing TCP connection	Chalk & talk
2.18	TCP connection reset	Chalk & talk
	Revision of Chapter 2	
3	INTERNET PROTOCAL	
3 3.1	INTERNET PROTOCAL Connectionless data gram delivery	Chalk & talk
		Chalk & talk Chalk & talk
3.1	Connectionless data gram delivery	
3.1 3.2	Connectionless data gram delivery Concept of unreliable delivery	Chalk & talk
3.1 3.2 3.3	Connectionless data gram delivery Concept of unreliable delivery Connectionless delivery system	Chalk & talk Chalk & talk
3.1 3.2 3.3 3.4	Connectionless data gram delivery Concept of unreliable delivery Connectionless delivery system Propose of internet protocol	Chalk & talk Chalk & talk Chalk & talk
3.1 3.2 3.3 3.4 3.5 3.6 3.7	Connectionless data gram delivery Concept of unreliable delivery Connectionless delivery system Propose of internet protocol IP header Source and destination address Protocol number	Chalk & talk Chalk & talk Chalk & talk Chalk & talk
3.1 3.2 3.3 3.4 3.5 3.6	Connectionless data gram delivery Concept of unreliable delivery Connectionless delivery system Propose of internet protocol IP header Source and destination address	Chalk & talk
3.1 3.2 3.3 3.4 3.5 3.6 3.7	Connectionless data gram delivery Concept of unreliable delivery Connectionless delivery system Propose of internet protocol IP header Source and destination address Protocol number	Chalk & talk
3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8	Connectionless data gram delivery Concept of unreliable delivery Connectionless delivery system Propose of internet protocol IP header Source and destination address Protocol number Checksum	Chalk & talk
3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9	Connectionless data gram delivery Concept of unreliable delivery Connectionless delivery system Propose of internet protocol IP header Source and destination address Protocol number Checksum Rooting in an internet Direct and indirect delivery Table driven IP root	Chalk & talk
3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 3.10 3.11 3.12	Connectionless data gram delivery Concept of unreliable delivery Connectionless delivery system Propose of internet protocol IP header Source and destination address Protocol number Checksum Rooting in an internet Direct and indirect delivery Table driven IP root Default root	Chalk & talk
3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 3.10 3.11	Connectionless data gram delivery Concept of unreliable delivery Connectionless delivery system Propose of internet protocol IP header Source and destination address Protocol number Checksum Rooting in an internet Direct and indirect delivery Table driven IP root Default root Host specific roots	Chalk & talk
3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 3.10 3.11 3.12	Connectionless data gram delivery Concept of unreliable delivery Connectionless delivery system Propose of internet protocol IP header Source and destination address Protocol number Checksum Rooting in an internet Direct and indirect delivery Table driven IP root Default root Host specific roots Rooting with IP address	Chalk & talk
3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 3.10 3.11 3.12 3.13	Connectionless data gram delivery Concept of unreliable delivery Connectionless delivery system Propose of internet protocol IP header Source and destination address Protocol number Checksum Rooting in an internet Direct and indirect delivery Table driven IP root Default root Host specific roots Rooting with IP address Revision of Chapter 3	Chalk & talk
3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 3.10 3.11 3.12 3.13	Connectionless data gram delivery Concept of unreliable delivery Connectionless delivery system Propose of internet protocol IP header Source and destination address Protocol number Checksum Rooting in an internet Direct and indirect delivery Table driven IP root Default root Host specific roots Rooting with IP address	Chalk & talk
3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 3.10 3.11 3.12 3.13 3.14	Connectionless data gram delivery Concept of unreliable delivery Connectionless delivery system Propose of internet protocol IP header Source and destination address Protocol number Checksum Rooting in an internet Direct and indirect delivery Table driven IP root Default root Host specific roots Rooting with IP address Revision of Chapter 3	Chalk & talk
3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 3.10 3.11 3.12 3.13 3.14	Connectionless data gram delivery Concept of unreliable delivery Connectionless delivery system Propose of internet protocol IP header Source and destination address Protocol number Checksum Rooting in an internet Direct and indirect delivery Table driven IP root Default root Host specific roots Rooting with IP address Revision of Chapter 3 SUBNET ADDRESS EXTENSION	Chalk & talk
3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 3.10 3.11 3.12 3.13 3.14	Connectionless data gram delivery Concept of unreliable delivery Connectionless delivery system Propose of internet protocol IP header Source and destination address Protocol number Checksum Rooting in an internet Direct and indirect delivery Table driven IP root Default root Host specific roots Rooting with IP address Revision of Chapter 3 SUBNET ADDRESS EXTENSION Introduction to subnet address extension	Chalk & talk
3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 3.10 3.11 3.12 3.13 3.14	Connectionless data gram delivery Concept of unreliable delivery Connectionless delivery system Propose of internet protocol IP header Source and destination address Protocol number Checksum Rooting in an internet Direct and indirect delivery Table driven IP root Default root Host specific roots Rooting with IP address Revision of Chapter 3 SUBNET ADDRESS EXTENSION Introduction to subnet address extension Minimizing network number	Chalk & talk

4.6	SImplementation of subnet with mask	Chalk & talk
4.7	Subnet mask representation	Chalk & talk
4.8	Routing in the presence of subnet	Chalk & talk
	Revision of Chapter 4	
5	UDP	
5.1	Introduction to UDP	Chalk & talk
5.2	Identifying the ultimate destination	Chalk & talk
5.3	Format of UDP message	Chalk & talk
	Revision of Chapter 5	
6	DOMAIN NAMES SYSTEM	
6.1	Hierarchical names	Chalk & talk
6.2.1	Subnet authority	Chalk & talk
6.2.1	Internet domain names	Chalk & talk
6.2.	Mapping of domain name to address	Chalk & talk
6.2.4	Domain name resolution	Chalk & talk
6.2.5	Efficient translation	Chalk & talk
6.2.6	Abbreviation of domain name	Chalk & talk
	Revision of Chapter 6	
7	INTERNET APPLICATIONS & SERVICES	
7.1	E-Mail network	Chalk & talk
7.2	E-Mail protocols	Chalk & talk
7.3	Format of an e-mail message	Chalk & talk
7.4	E-Mail routing	Chalk & talk
7.5	E-Mail clients, POP3, IMAP	Chalk & talk
7.6	Public domain software	Chalk & talk
7.7	Types of FTP servers	Chalk & talk
7.8	FTP clients	Chalk & talk
7.9	Telnet protocol	Chalk & talk
7.10	Server domain	Chalk & talk
7.11	Clients	Chalk & talk
7.12	IRC network & servers	Chalk & talk
7.13	Channels	Chalk & talk
7.14	World wide web	Chalk & talk
7.15	Browser	Chalk & talk
	Revision of Chapter 7	
8	HTML & INTERACTIVE TOOLS	
8.1	Document overview explain header elements	Chalk & talk
8.2	Section heading	Chalk & talk
8.3	Block oriented elements discuss list	Chalk & talk
8.4	Inline elements	Chalk & talk
8.5	Visual markup	Chalk & talk
8.6	Hypertext links	Chalk & talk
8.7	Uniform resource locator discuss imagers	Chalk & talk
8.8	Tables	Chalk & talk
8.9	Special characters	Chalk & talk

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8.10	CGI ( common gateway interface ) explain active X	Chalk & talk
8.11	VB script	Chalk & talk
8.12	Java script	Chalk & talk
8.13	XML application	Chalk & talk
8.14	XML rules	Chalk & talk
8.15	Displaying XML documents	Chalk & talk
8.16	Parts of XML documents	Chalk & talk
8.17	Concepts of DTD	Chalk & talk
8.18	Entity definition & classification concepts of templates &	
	Its use filtering & sorting.	Chalk & talk
	Revision of Chapter 8	
	BOOKS :-	
1	Internet working with TCP / IP Vol-1; Principles, Protocols &	Architecture
	By Douglas E. Corner - PHI	
2	HTML : The definitive guide – By Chuck Musciano & Kennedy	
3	Internet working with TCP?IP Vol II : Design, implementation	& internals
	By Douglas E. Corner & David L. Stevens - PHI	
4	Internet and web page design By Sisodia : BPB publication	
5	Web technologies By U.K Roy, Oxford Univ. Press	
	7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7	

LESSON PLAN				
JHARSUGUDA ENGINEERING SCHOOL, JHARSUGUDA				
Name of the Faculty : SUNIL KUMAR PAL	Total Hrs planned:60			
	Total Hrs per week: 04			
Course No: HMT 601	Course Name: ENTREPRENEURSHIP & MANAGEMENT			
Programme: Diploma	Branch: Electronics & Telecommunication			
Year/ Semester :VI	Section:			

SI.		Time			Teaching
No	Period	(min)	Unit	Topic to be Covered	Method
1.	1.	55	1	Introduction	Chalk & duster
2.	2.	55	1	Meaning and features and concept of business	Chalk & duster
3.	3.	55	1	Different forms of business organizations with features	Chalk & duster
4.	4.	55	1	-do-	Chalk & duster
5	5	55	1	Meaning, definitions and importance of management	Chalk & duster
6	6	55	1	Difference between management and Administration	Audio -visual
7	7	55	1	Function of management- planning, organizing, staffing, directing,	Chalk & duster
8	8	55	1	-do-	Chalk & duster
9	9	55	1	coordination and controlling	Chalk & duster
10	10	55	1	Principle of scientific management	Chalk & duster
11.	11.	55	1	-do-	Chalk & duster
12.	12.	55	1	-do-	Chalk & duster
13.	13.	55	2	Meaning and need of entrepreneurship	Chalk & duster
14.	14.	55	2	Qualities of an entrepreneur	Chalk & duster
15	15	55	2	Relevance of entrepreneurship of socio-economic gain	Chalk & duster
16	16	55	2	-do-	Chalk & duster
17	17	55	2	Micro, small and medium enterprises.	Audio -visual
18	18	55	2	-do-	Chalk & duster
19	19	55	2	Project Report- PPR & DPR	Audio -visual
20	20	55	2	-do-	Chalk & duster
21.	21.	55	2	Incentives available to MSME as per the latest IPR	Chalk & duster
22.	22.	55	2	Role of DIC, OSFC,OSIC	Chalk & duster
23.	23.	55	2	IDCO, SIDBI,IPICOL and commercial banks in the context of MSME	Chalk & duster
24.	24.	55	2	-do-	Chalk & duster
25	25	55	3	Financial accounting: Double entry system of book-keeping and types of accounts	Chalk & duster
26	26	55	3	-do-	Chalk & duster
27	27	55	3	Journal, ledger	Audio -visual
28	28	55	3	-do-	Chalk & duster
29	29	55	3	Cashbook( different types), Trial balance	Chalk & duster
30	30	55	3	-do-	Chalk & duster
31.	31.	55	3	Components of final accounts- Trading A/C, profit & loss A/C and balance sheet	Audio -visual
32.	32.	55	3	-do-	Chalk & duster
33.	33.	55	3	-do-	Chalk & duster
34	34	55	3	Elements of cost and preparation of cost sheet	Audio -visual
35	35	55	3	Break-even analysis	Chalk & duster

26	20		1	l de	Chalk & duster
36	36	55	3	-do-	
37	37	55	4	Financial management: meaning and importance	Chalk & duster
38	38	55	4	Finance functions	Chalk & duster
39	39	55	4	Types of capitals- Fixed & working capital	Chalk & duster
40	40	55	4	Components of working capital, working capital cycle.	Chalk & duster
41	41	55	5	Inventory Control: Importance & Techniques	Chalk & duster
42	42	55	5	Purchase management-Principles & Procedures	Chalk & duster
43	43	55	5	-do-	Chalk & duster
44	44	55	5	Important Store Records (Bin Card, Stores Ledger& GRN)	Audio -visual
45	45	55	5	-do-	Audio -visual
46	46	55	6	Production & Productivity	Chalk & duster
47	47	55	6	-do-	Chalk & duster
48	48	55	6	Production , Planning & Control-(meaning & steps)	Audio -visual
49	49	55	6	-do-	Audio -visual
50	50	55	7	Sales & Marketing Management-Meaning & Importance	Chalk & duster
51	51	55	7	Selling Methods	Chalk & duster
52	52	55	7	Product Policy-(Branding, Packaging, Labeling)	Chalk & duster
53	53	55	7	do-	Chalk & duster
54	54	55	7	Product-mix, Pricing methods and Sales Promotion	Chalk & duster
				including its techniques	
55	55	55	7	-do-	Chalk & duster
56	56	55	7	Advertising & its media	Audio -visual
57	57	55	7	-do-	Chalk & duster
58	58	55	8	Need & Importance	Chalk & duster
59	59	55	8	Recruitment & its sources	Chalk & duster
60	60	55	8	-do-	Chalk & duster
61	61	55	8	Selection-Methods	Chalk & duster
62	62	55	8	Training-Need, & Methods	Audio -visual
63	63	55	8	Need of Performance Appraisal	Chalk & duster
64	64	55	9	Meaning & Symptoms of Sickness	Chalk & duster
65	65	55	9	Causes of Industrial Sickness	Chalk & duster
66	66	55	9	-do-	Chalk & duster
67	67	55	9	Remedial measures of Sickness	Chalk & duster
68	68	55	10	Major Provisions of Factories Act relating to Health,	Audio -visual
				Welfare, Safety, Accidents, Hours of Work, employment of	
				Women	
69	69	55	10	-do-	Chalk & duster
70	70	55	10	-do-	Chalk & duster
71	71	55	10	Duties and Power of Factory Inspector	Chalk & duster
72	72	55	10	-do-	Chalk & duster
73	73	55	10	Major Provisions of Employee's Compensation Act.	Chalk & duster
74	74	55	10	Revision Chalk & duster	
75	75	55	10	Previous year questions discussion	Chalk & duster
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#### Lesson Plan

Name	SABYASACHI SARANGI	Total Hrs planned:60 Total Hrs per week: 04
Designation	PTGF	Pre requisite :
Subject: Code/Name	ITT-601	Mobile Computing
Semester/Programme/ Department	6 <sup>th</sup> Sem / Diploma/ Information Technology	
Course Objective	<ol> <li>To understand basics of Wireless networks &amp; Mobile Compute.</li> <li>To be able to Mobile Development Frameworks</li> <li>To learn about Wireless Transmission, Wireless LANs</li> <li>To understand various Mobile IP, Wireless Telecomm Networks Messaging Services.</li> </ol>	

G1.31	Detail Description of	Mode of
Sl.No	Topics/Subtopics	Lecture
1	Chapter1: Introduction to Wireless networks & Mobile	Chalk & talk
	Computing	
2	Networks	Chalk & talk
3	Wireless Networks	Chalk & talk
4	Mobile Computing	PPT
5	Mobile Computing Characteristics	PPT
6	Application of Mobile Computing	NPTEL VIDEO
7	Revision of Chapter 1	Questionnaires & Class Test
8	Chapter2: Introduction to Mobile Development Frameworks	Chalk & talk
9	C/S architecture	NPTEL VIDEO
10	n-tier architecture	PPT
11	n-tier architecture and www	NPTEL VIDEO
12	Peer-to Peer architecture	Chalk & talk
13	Mobile agent architecture	NPTEL VIDEO
14	Revision of Chapter 2	Questionnaires & Class Test
15	Chapter 3: Wireless Transmission	Chalk & talk
16	Introduction	Chalk & talk
17	Signals	PPT
18	Period, Frequency and Bandwidth.	Chalk & talk
19	Antennas	Chalk & talk
20	Signal Propagation	Chalk & talk
21	Multiplexing	NPTEL VIDEO
22	Modulation	Chalk & talk
23	Spread Spectrum	NPTEL VIDEO
24	Cellular System	NPTEL VIDEO
25	Revision of Chapter 3	Questionnaires & Class Test
26	Chapter 4: Medium Access Control	Chalk & talk
27	Introduction	PPT
28	Hidden/ Exposed Terminals	Chalk & talk
29	The basic Access Method	Chalk & talk
30	Near / Far Terminals	NPTEL VIDEO
31	SDMA, FDMA,TDMA, CDMA	NPTEL VIDEO
32	Revision of Chapter 4	Questionnaires & Class Test

33	Chapter 5: Wireless LANs	Chalk & talk
34	Wireless LAN and communication	PPT
35	Infrared	Chalk & talk
36	Radio Frequency	NPTEL VIDEO
37	IR Advantages and Disadvantages	Chalk & talk
38	RF Advantages and Disadvantages	Chalk & talk
39	Wireless Network Architecture Logical	Chalk & talk
40	Types of WLAN	Chalk & talk
41	IEEE 802.11	Chalk & talk
42	MAC layer	Chalk & talk
43	Security	NPTEL VIDEO
44	Synchronization	NPTEL VIDEO
45	Power Management	NPTEL VIDEO
46	Roaming	NPTEL VIDEO
47	Bluetooth Overview	NPTEL VIDEO
48	Revision of Chapter 5	Questionnaires & Class Test
49	Chapter 6: Ubiquitous Wireless Communication	Chalk & talk
50	Introduction	Chalk & talk
51	Scenario of Mobile Communication	NPTEL VIDEO
52	Mobile Communication Generations 1G to 3G	Chalk & talk
53	3rd Generation Mobile Communication Network	PPT
54	Universal Mobile telecommunication System (UMTS	Chalk & talk
55	Revision of Chapter 6	Questionnaires & Class Test
56	Chapter 7: Mobile IP	Chalk & talk
57	Overview	Chalk & talk
58	Working with mobile IP	NPTEL VIDEO
59	Mobile IP Entities	PPT
60	Mobility Agents	NPTEL VIDEO
61	Components of Mobile IP	NPTEL VIDEO
62	Mobile IPv6 Features	NPTEL VIDEO
63	Mobile IPv6 Address Types	NPTEL VIDEO
64	Mobile IPv6 Address Scope	NPTEL VIDEO
65	Revision of Chapter 7	Questionnaires & Class Test

66	Chapter 8 : Mobile Computing	Chalk & talk
67	WWW architecture for Mobile computing	Chalk & talk
68	Need of WAP	Chalk & talk
69	Benefits of WAP	Chalk & talk
70	Examples of WAP	Chalk & talk
71	WAP- Architecture	Chalk & talk
72	WAP protocols	Chalk & talk
73	WML	Chalk & talk
74	WAP Push architecture	Chalk & talk
75	Push-Pull based data acquisition	Chalk & talk
76	I-mode	Chalk & talk
77	WAP 2.x	Chalk & talk
78	Revision of Chapter 8	Questionnaires &
		Class Test
79	Chapter 9: Wireless Telecomm	Chalk & talk
	Networks	
80	GSM	Chalk & talk
81	GPRS	Chalk & talk
82	IS-95	Chalk & talk
83	CDMA-2000	Chalk & talk
84	W-CDMA	NPTEL VIDEO
85	Wireless Sensor Networks	NPTEL VIDEO
86	Revision of Chapter 9	Questionnaires &
		Class Test
87	<b>Chapter 10: Messaging Services</b>	Chalk & talk
89	Short Message Services (SMS)	Chalk & talk
90	Multimedia Message Services (MMS)	NPTEL VIDEO
91	Multimedia transmission over wireless	NPTEL VIDEO
92	Revision of Chapter 10	Questionnaires &
		Class Test

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1. Mobile Computing ; By : Dr. N.NJani, Kamaljit I. Lakhtaria, Dr. Ashish N. Jani & Nita Kanabar (S.Chand & Company Ltd.)