	LESSON PLAN **Sub Name : Compiler Design** **Branch: B.Tech CSE Semester& Section: VI –A Section**	**Date:** **14.11.2012** **To 23.03.2013**

S.No	Date	Topics to be covered	Unit No.	Teaching Method	Remarks
1.	14-11-2012	Introduction	I	BB	
2.	15-11-2012	**Overview of compilation**		BB	
3.	16-11-2012	Phases of compilation			
4.	19-11-2012	Phases of compilation		BB	
5.	20-11-2012	Lexical analysis-Token Identification			
6.	21-11-2012	Token Identification		BB	
7.	22-11-2012	Regular Expressions and Regular Definitions		BB	
8.	23-11-2012	**Tutorial-1**			
9	26-11-2012	Pass and Phase ,Input Buffering		BB	
10.	27-11-2012	Difference between Interpreter and compiler,Boot strapping		BB	
11.	28-11-2012	Data structures in Compilation		BB	
12.	29-11-2012	LEX-lexical analyzer		BB	
13.	30-11-2012	LEX-lexical analyzer			
14.	03-12-2012	**Revision**		BB	
15.	04-12-2012	**Context free grammars**	II	BB	
16.	05-12-2012	Derivation Trees, Parse Trees		BB	
17.	06-12-2012	Ambiguous Grammars			
18.	07-12-2012	**Tutorial-2**		BB	
19.	10-12-2012	Top down parsing			
20.	11-12-2012	Back tracking			
21.	12-12-2012	First Function			
22.	13-12-2012	Follow Function		BB	
23	14-12-2012	**Tutorial-3**		BB	
24	17-12-2012	LL(1) Parsing			
25	18-12-2012	LL(1) Parsing		BB	
26	19-12-2012	Predicative Parsing		BB	
27	20-12-2012	Recursive decent parsing			
28	21-12-2012	**Tutorial-4**		BB	
29	24-12-2012	**Revision**			
30	26-12-2012	**Bottom up parsing**	III	BB	
31	27-12-2012	Shift reduce parsing			
32	28-12-2012	SLR Parsing			
33	31-12-2012	SLR Parsing		BB	
34	02-01-2013	**Tutorial-5**			
35.	03-01-2013	CLR Parsing			
36	04-01-2013	CLR Parsing		BB	
07-01-2013 to 19-01-2013 (I MID EXAMINATION)					
37	21-01-2013	**Tutorial-6**	III	BB	

	LESSON PLAN	Date: 14.11.2012 To 23.03.2013
	Sub Name : Compiler Design Branch: B.Tech CSE Semester& Section: VI –A Section	

38	22-01-2013	LALR Parsing		BB	
39	23-01-2013	**Tutorial-7**			
40	24-01-2013	Error recovery in parsing		BB	
41	28-01-2013	Handling ambiguous grammar		BB	
42	29-01-2013	Handling ambiguous grammar			
43	30-01-2013	YACC			
44	31-01-2013	YACC			
45	01-02-2013	**Revision**		BB	
46	04-02-2013	**Semantic Analysis**		BB	
47	05-02-2013	Syntax directed translation		BB	
48	06-02-2013	S-attributed grammar		BB	
49	07-02-2013	S-attributed grammar			
50	08-02-2013	L-attributed grammar			
51	11-02-2013	L-attributed grammar		BB	
52	12-02-2013	Type Checker		BB	
53	13-02-2013	Type Conversion		BB	
54	14-02-2013	**Intermediate Code Generation**	IV	BB	
55	15-02-2013	Abstract syntax tree		BB	
56	18-02-2013	Polish notation		BB	
57	19-02-2013	Three address code		BB	
58	20-02-2013	Translation of simple statements		BB	
59	21-02-2013	Translation of Control Statements		BB	
60	22-02-2013	Translation of Control Statements			
61	25-02-2013	**Tutorial-8**		BB	
62	26-02-2013	**Code Optimization**			
63	27-02-2013	Local optimization		BB	
64	28-02-2013	Local optimization			
65	01-03-2013	Loop Optimization		BB	
66	04-03-2013	Loop Optimization			
67	05-03-2013	DAG Representation	V	BB	
68	06-03-2013	**Tutorial-9**		BB	
69	07-03-2013	**Code generation**		BB	
70	11-03-2013	Design Issues		BB	
71	12-03-2013	Generic code generation algorithm		BB	
72	13-03-2013	Register allocation and assignment		BB	
73	14-03-2013	DAG representation		BB	
74	15-03-2013	DAG representation		BB	
75	18-03-2013	**Tutorial-10**		BB	
76	19-03-2013	**Storage Organization**		BB	
77	20-03-2013	Storage allocation strategies	IV	BB	
78	21-03-2013	Storage allocation strategies		BB	
79	22-03-2013	Dynamic storage allocation		BB	

	LESSON PLAN	**Date:** **14.11.2012** **To 23.03.2013**
	Sub Name : Compiler Design **Branch: B.Tech CSE Semester& Section: VI –A Section**	

TEXT BOOK

Compilers Principles, Techniques and Tools Aho, Ullman, Ravisethi, Pearson Education.

REFERENCES

1. Modern Compiler Construction in C , Andrew W.Appel Cambridge University Press.
2. Compiler Construction, LOUDEN, Thomson.

	Prepared by	**Approved by**
Signature		
Name	**S.Nagarjuna Reddy**	**HOD/CSE**
Designation	**Asst.Professor/CSE**	**Professor**
Date	**23-11-2012**	

	LESSON PLAN **Sub Name : Compiler Design** **Branch: B.Tech CSE Semester& Section: VI – B Section**	**Date:** **14.11.2012** **To 23.03.2013**

S.No	Date	Topics to be covered	Unit No.	Teaching Method	Remarks
1.	14-11-2012	Introduction	I	BB	
2.	15-11-2012	**Overview of compilation**		BB	
3.	16-11-2012	Phases of compilation			
4.	19-11-2012	Phases of compilation		BB	
5.	20-11-2012	Lexical analysis-Token Identification			
6.	21-11-2012	Token Identification		BB	
7.	22-11-2012	Regular Expressions and Regular Definitions		BB	
8.	23-11-2012	**Tutorial-1**			
9	26-11-2012	Pass and Phase ,Input Buffering		BB	
10.	27-11-2012	Difference between Interpreter and compiler,Boot strapping		BB	
11.	28-11-2012	Data structures in Compilation		BB	
12.	29-11-2012	LEX-lexical analyzer		BB	
13.	30-11-2012	LEX-lexical analyzer			
14.	03-12-2012	**Revision**		BB	
15.	04-12-2012	**Context free grammars**	II	BB	
16.	05-12-2012	Derivation Trees, Parse Trees		BB	
17.	06-12-2012	Ambiguous Grammars			
18.	07-12-2012	**Tutorial-2**		BB	
19.	10-12-2012	Top down parsing			
20.	11-12-2012	Back tracking			
21.	12-12-2012	First Function			
22.	13-12-2012	Follow Function		BB	
23	14-12-2012	**Tutorial-3**		BB	
24	17-12-2012	LL(1) Parsing			
25	18-12-2012	LL(1) Parsing		BB	
26	19-12-2012	Predicative Parsing		BB	
27	20-12-2012	Recursive decent parsing			
28	21-12-2012	**Tutorial-4**		BB	
29	24-12-2012	**Revision**			
30	26-12-2012	**Bottom up parsing**	III	BB	
31	27-12-2012	Shift reduce parsing			
32	28-12-2012	SLR Parsing			
33	31-12-2012	SLR Parsing		BB	
34	02-01-2013	**Tutorial-5**			
35.	03-01-2013	CLR Parsing			
36	04-01-2013	CLR Parsing		BB	
07-01-2013 to 19-01-2013 (I MID EXAMINATION)					
37	21-01-2013	**Tutorial-6**	III	BB	

	LESSON PLAN	Date: 14.11.2012 To 23.03.2013
	Sub Name : Compiler Design Branch: B.Tech CSE Semester& Section: VI – B Section	

38	22-01-2013	LALR Parsing		BB	
39	23-01-2013	**Tutorial-7**			
40	24-01-2013	Error recovery in parsing		BB	
41	28-01-2013	Handling ambiguous grammar		BB	
42	29-01-2013	Handling ambiguous grammar			
43	30-01-2013	YACC			
44	31-01-2013	YACC			
45	01-02-2013	**Revision**		BB	
46	04-02-2013	**Semantic Analysis**		BB	
47	05-02-2013	Syntax directed translation		BB	
48	06-02-2013	S-attributed grammar		BB	
49	07-02-2013	S-attributed grammar			
50	08-02-2013	L-attributed grammar			
51	11-02-2013	L-attributed grammar		BB	
52	12-02-2013	Type Checker		BB	
53	13-02-2013	Type Conversion		BB	
54	14-02-2013	**Intermediate Code Generation**	IV	BB	
55	15-02-2013	Abstract syntax tree		BB	
56	18-02-2013	Polish notation		BB	
57	19-02-2013	Three address code		BB	
58	20-02-2013	Translation of simple statements		BB	
59	21-02-2013	Translation of Control Statements		BB	
60	22-02-2013	Translation of Control Statements			
61	25-02-2013	**Tutorial-8**		BB	
62	26-02-2013	**Code Optimization**			
63	27-02-2013	Local optimization		BB	
64	28-02-2013	Local optimization			
65	01-03-2013	Loop Optimization		BB	
66	04-03-2013	Loop Optimization			
67	05-03-2013	DAG Representation	V	BB	
68	06-03-2013	**Tutorial-9**		BB	
69	07-03-2013	**Code generation**		BB	
70	11-03-2013	Design Issues		BB	
71	12-03-2013	Generic code generation algorithm		BB	
72	13-03-2013	Register allocation and assignment		BB	
73	14-03-2013	DAG representation		BB	
74	15-03-2013	DAG representation		BB	
75	18-03-2013	**Tutorial-10**		BB	
76	19-03-2013	**Storage Organization**		BB	
77	20-03-2013	Storage allocation strategies	IV	BB	
78	21-03-2013	Storage allocation strategies		BB	
79	22-03-2013	Dynamic storage allocation		BB	

	LESSON PLAN	**Date:** **14.11.2012** **To 23.03.2013**
	Sub Name : Compiler Design **Branch: B.Tech CSE Semester& Section: VI – B Section**	

TEXT BOOK

Compilers Principles, Techniques and Tools Aho, Ullman, Ravisethi, Pearson Education.

REFERENCES

1. Modern Compiler Construction in C , Andrew W.Appel Cambridge University Press.
2. Compiler Construction, LOUDEN, Thomson.

	Prepared by	**Approved by**
Signature		
Name	**S.Nagarjuna Reddy**	**HOD/CSE**
Designation	**Asst.Professor/CSE**	**Professor**

	LESSON PLAN **Sub Name : Computer Graphics** **Branch: B.Tech CSE Semester& Section: VI –A Section**	**Date:** **14.11.2012** **To 23.03.2013**

S.No	Date	Topics to be covered	Unit No.	Teaching Method	Remarks
1.	14-11-2012	Introduction	I	BB	
2.	15-11-2012	Usage of Graphics and their applications		BB	
3.	16-11-2012	Over view of Graphics systems		BB	
4.	17-11-2012	Video Display Devices		BB	
5.	19-11-2012	CRT Monitors- Raster scan		BB	
6.	21-11-2012	Random scan CRT, Plasma panels		BB	
7.	22-11-2012	LED's, LCD's		BB	
8.	23-11-2012	DVST, Color Monitors			
9	24-11-2012	Raster scan system, Random scan system		BB	
10.	26-11-2012	Graphic Monitors & work stations		BB	
11.	28-11-2012	Input devices		BB	
12.	29-11-2012	Points and Lines	II	BB	
13.	30-11-2012	Line Drawing Algorithms			
14.	01-1-2012	DDA		BB	
15.	03-12-2012	Bresenham		BB	
16.	05-12-2012	Loading the Frame buffer- Line function		BB	
17.	06-12-2012	Circle- Generating Algorithms		BB	
18.	07-12-2012	Direct method		BB	
19.	10-12-2012	Bresenham Method		BB	
20.	12-12-2012	Ellipse Generating Algorithms		BB	
21.	13-12-2012	Problems on Algorithms		BB	
22.	14-12-2012	Other Curves		BB	
23	15-12-2012	Parallel Curve Algorithms		BB	
24	17-12-2012	Curve Functions			
25	19-12-2012	Pixel Addressing		BB	
26	20-12-2012	Filled Area Primitives		BB	
27	21-12-2012	Scan Line Polygon fill algorithm		BB	
28	22-12-2012	Inside- Outside Tests		BB	
29	24-12-2012	Boundary fill algorithm & Flood fill algorithm		BB	
30	26-12-2012	Filled Area Functions	III	BB	
31	27-12-2012	**Two Dimensional Geometric Transformations**		BB	
32	28-12-2012	Basic Transformations		BB	
33	29-12-2012	Matrix Representations		BB	
34	31-12-2013	Homogeneous Coordinates		BB	
35.	02-01-2013	Composite Transformations		BB	
36	03-01-2013	General pivot point rotation		BB	

	LESSON PLAN **Sub Name : Computer Graphics** **Branch: B.Tech CSE Semester& Section: VI –A Section**	**Date:** **14.11.2012** **To 23.03.2013**

07-01-2013 to 19-01-2013 (I MID EXAMINATION)					
37	04-01-2013	Other Transformations	III	BB	
38	05-01-2013	Transformations between Coordinate Systems		BB	
39	21-01-2013	Affine Transformations		BB	
40	23-01-2013	Error recovery in parsing		BB	
41	24-01-2013	Transformation Functions		BB	
42	25-01-2013	Raster methods for Transformation		BB	
43	28-01-2013	**Two Dimensional Viewing**:	IV	BB	
44	30-01-2013	The viewing Pipeline		BB	
45	31-01-2013	Viewing Coordinate Reference Frame		BB	
46	01-02-2013	Window-to-Viewport Coordinate Transformation		BB	
47	02-02-2013	Two Dimensional Viewing Functions		BB	
48	04-02-2013	Clipping Operations		BB	
49	06-02-2013	Point Clipping		BB	
50	07-02-2013	Line Clipping		BB	
51	08-02-2013	Line Clipping		BB	
52	11-02-2013	Example problems		BB	
53	13-02-2013	Polygon Clipping		BB	
54	14-02-2013	Polygon Clipping		BB	
55	15-02-2013	Example problems		BB	
56	16-02-2013	Example problems		BB	
57	18-02-2013	**Three Dimensional Concepts and Object representations**	V	BB	
58	20-02-2013	3D display methods		BB	
59	21-02-2013	3DGraphics		BB	
60	22-02-2013	Polygon Surfaces			
61	23-02-2013	Polygon Tables		BB	
62	25-02-2013	Curved Lines and Surfaces			
63	27-02-2013	Quadratic Surfaces		BB	
64	28-02-2013	Sphere and Ellipsoid		BB	
65	01-03-2013	Three Dimensional Geometric and Modeling Transformations		BB	
66	02-03-2013	Translation		BB	
67	04-03-2013	Rotation		BB	
68	06-03-2013	Coordinate Axes Rotation		BB	
69	07-03-2013	General 3D Rotation		BB	
70	08-03-2013	scaling		BB	
71	11-03-2013	Other Transformations		BB	
72	13-03-2013	Other Transformations		BB	
73	14-03-2013	3D Transformation Functions		BB	
74	15-03-2013	Modeling & Coordinate		BB	

	LESSON PLAN **Sub Name : Computer Graphics** **Branch: B.Tech CSE Semester& Section: VI –A Section**	**Date:** **14.11.2012** **To 23.03.2013**

		Transformations			
75	16-03-2013	Example problems		BB	
	18-03-2013	Revision			
	20-03-2013	Revision			
	21-03-2013	Revision			
	22-03-2013	Revision			
	23-03-2013	Revision			

TEXT BOOK

Donald Hearn & M. Pauline Baker, "Computer Graphics C Version", Pearson Education, New Delhi, 2004

REFERENCES

1. David F. Rogers; "Procedural Elements for Computer Graphics"; TMH
2. J. D. Foley, S. K Feiner, A Van Dam F. H John; "Computer Graphics: Principles & Practice in C"; Pearson
3. Franscis S Hill Jr; "Computer Graphics using Open GL"; Pearson Education, 2004

	Prepared by	**Approved by**
Signature		
Name	**E. Ravi Kumar**	**HOD/CSE**
Designation	**Asst.Professor/CSE**	**Professor**

	LESSON PLAN **Sub Name : Computer Graphics** **Branch: B.Tech CSE Semester& Section: VI – B Section**	**Date:** **14.11.2012** **To 23.03.2013**

S.No	Date	Topics to be covered	Unit No.	Teaching Method	Remarks
1.	14-11-2012	Introduction	I	BB	
2.	15-11-2012	Usage of Graphics and their applications		BB	
3.	16-11-2012	Over view of Graphics systems		BB	
4.	17-11-2012	Video Display Devices		BB	
5.	19-11-2012	CRT Monitors- Raster scan		BB	
6.	20-11-2012	Random scan CRT, Plasma panels		BB	
7.	22-11-2012	LED's, LCD's		BB	
8.	23-11-2012	DVST, Color Monitors		BB	
9	24-11-2012	Raster scan system, Random scan system		BB	
10.	26-11-2012	Graphic Monitors & work stations		BB	
11.	27-11-2012	Input devices		BB	
12.	28-11-2012	Points and Lines	II	BB	
13.	30-11-2012	Line Drawing Algorithms		BB	
14.	01-12-2012	DDA		BB	
15.	03-12-2012	Bresenham		BB	
16.	04-12-2012	Loading the Frame buffer- Line function		BB	
17.	05-12-2012	Circle- Generating Algorithms		BB	
18.	07-12-2012	Direct method		BB	
19.	10-12-2012	Bresenham Method		BB	
20.	11-12-2012	Ellipse Generating Algorithms		BB	
21.	12-12-2012	Problems on Algorithms		BB	
22.	14-12-2012	Other Curves		BB	
23	15-12-2012	Parallel Curve Algorithms		BB	
24	17-12-2012	Curve Functions		BB	
25	18-12-2012	Pixel Addressing		BB	
26	19-12-2012	Filled Area Primitives		BB	
27	21-12-2012	Scan Line Polygon fill algorithm		BB	
28	22-12-2012	Inside- Outside Tests		BB	
29	24-12-2012	Boundary fill algorithm & Flood fill algorithm		BB	
30	26-12-2012	Filled Area Functions	III	BB	
31	28-12-2012	**Two Dimensional Geometric Transformations**		BB	
32	29-12-2012	Basic Transformations		BB	
33	31-12-2012	Matrix Representations		BB	
34	02-01-2013	Homogeneous Coordinates		BB	
35.	03-01-2013	Composite Transformations		BB	
36	05-01-2013	General pivot point rotation		BB	

	LESSON PLAN **Sub Name : Computer Graphics** **Branch: B.Tech CSE Semester& Section: VI – B Section**	**Date:** **14.11.2012** **To 23.03.2013**

07-01-2013 to 19-01-2013 (I MID EXAMINATION)					
37	21-01-2013	Other Transformations	III	BB	
38	22-01-2013	Transformations between Coordinate Systems		BB	
39	23-01-2013	Affine Transformations		BB	
40	25-01-2013	Error recovery in parsing		BB	
41	24-01-2013	Transformation Functions		BB	
42	28-01-2013	Raster methods for Transformation		BB	
43	29-01-2013	**Two Dimensional Viewing**:	IV	BB	
44	30-01-2013	The viewing Pipeline			
45	01-02-2013	Viewing Coordinate Reference Frame		BB	
46	02-02-2013	Window-to-Viewport Coordinate Transformation		BB	
47	04-02-2013	Two Dimensional Viewing Functions		BB	
48	05-02-2013	Clipping Operations		BB	
49	06-02-2013	Point Clipping		BB	
50	08-02-2013	Line Clipping		BB	
51	11-02-2013	Line Clipping		BB	
52	12-02-2013	Example problems		BB	
53	13-02-2013	Polygon Clipping		BB	
54	15-02-2013	Polygon Clipping		BB	
55	16-02-2013	Example problems		BB	
56	18-02-2013	Example problems		BB	
57	19-02-2013	**Three Dimensional Concepts and Object representations**	V	BB	
58	20-02-2013	3D display methods		BB	
59	22-02-2013	3DGraphics		BB	
60	23-02-2013	Polygon Surfaces		BB	
61	25-02-2013	Polygon Tables		BB	
62	26-02-2013	Curved Lines and Surfaces		BB	
63	27-02-2013	Quadratic Surfaces		BB	
64	01-03-2013	Sphere and Ellipsoid		BB	
65	02-03-2013	Three Dimensional Geometric and Modeling Transformations		BB	
66	04-03-2013	Translation		BB	
67	05-03-2013	Rotation		BB	
68	06-03-2013	Coordinate Axes Rotation		BB	
69	08-03-2013	General 3D Rotation		BB	
70	11-03-2013	scaling		BB	
71	12-03-2013	Other Transformations		BB	
72	13-03-2013	Other Transformations		BB	
73	15-03-2013	3D Transformation Functions		BB	

	LESSON PLAN **Sub Name : Computer Graphics** **Branch: B.Tech CSE Semester& Section: VI – B Section**	**Date:** **14.11.2012** **To 23.03.2013**

74	16-03-2013	Modeling & Coordinate Transformations		BB	
75	18-03-2013	Example problems		BB	
	19-03-2013	Revision			
	20-03-2013	Revision			
	22-03-2013	Revision			
	23-03-2013	Revision			

TEXT BOOK

Donald Hearn & M. Pauline Baker, “Computer Graphics C Version”, Pearson Education, New Delhi, 2004

REFERENCES

1. David F. Rogers; “Procedural Elements for Computer Graphics”; TMH
2. J. D. Foley, S. K Feiner, A Van Dam F. H John; “Computer Graphics: Principles & Practice in C”; Pearson
3. Franscis S Hill Jr; “Computer Graphics using Open GL”; Pearson Education, 2004

	Prepared by	**Approved by**
Signature		
Name	**E. Ravi Kumar**	**HOD/CSE**
Designation	**Asst.Professor/CSE**	**Professor**
Date	**23-11-2012**	

	LESSON PLAN	Date: 21-10-12
	Sub Code & Sub Name : T145 COMPUTER NETWORKS	
	Branch: CSE Year:III.B.Tech (A) Semester : VI	EWD:23-03-13

T314 – SOFTWARE TESTING METHODOLOGIES

Lecture	**: 4 Periods/week**	**Internal Marks**	**: 25**
Tutorial	**: 1**	**External Marks**	**: 75**
Credits	**: 4**	**External Examination**	**: 3 Hrs**

UNIT - I

Introduction: Use of Computer Networks- Network Hardware- Network software-Reference models Example Networks- Network Standardization. Physical Layer: The theoretical basis for Data communication- Guided Transmission Media.

UNIT - II

Data link layer: design issues- framing, error detection and correction, CRC, Elementary data link protocols- sliding window protocols. Medium Access Control Sub layer: Channel allocation problem- multiple access protocols- Ethernet- Data link layer switching.

UNIT – III

Network layer: Network layer design issues- Routing algorithms- congestion control algorithms- Quality of service- Internetworking- network layer in the Internet.

UNIT - IV

Transport layer: Transport service- Elements of transport protocols- Internet transport protocols: TCP & UDP.

UNIT - V

Application Layer: Domain Name System- Electronic Mail -the World Wide Web, Network Security.

TEXT BOOK

Andrews S. Tanenbaum; "Computer Networks"; Fourth Edition, PHI.

REFERENCES

1. William Stallings; "Data and Computer Communications"; seventh Edition, Pearson Education.

2. Behrouz A .Fourouzan; "TCP/IP Protocol Suite"; Fourth Edition, Tata-McGraw Hill.

3. James F.Kurose, Keith W.ROSS; "Computer Networking - A Top-Down Approach featuring the Internet"; Pearson Education.

Course Description
Intended as a first course in communication networks for upper-level undergraduate students. Topics include basic techniques for channel transmission, error control, flow control, multiplexing, switching, routing, signalling, and scheduling. Students will also learn practical aspects of the Internet and telephone Networks

Course Objectives:

- Give students an understanding of the basic principles of computer networking
- Give students an overview of the main technologies used in computer networks.
- Give students an overview of internetworking principles and how the Internet protocols, routing, and applications operate.
- Give students the basic background in computer networks that will allow them to practice in this field, and that will form the foundation for more advanced courses in networking.

Course Outlines:

- Computer Networks and the Internet
- Application Layer
- Transport Layer
- Network Layer
- Data Link Layer and Local Area Networks

Student Learning Outcomes:

Upon the successful completion of this course students will be able to:

- ❖ Evaluate the operation and performance of practical data link protocols using the principles of framing, error detection and correction, ARQ and multiple access control.
- ❖ Apply the principles of network layer design to the analysis and evaluation of routing algorithms, congestion control techniques, internetworking and addressing;
- ❖ Apply the concepts of addressing and address resolution, connection establishment, reliable transport, flow control and congestion control to install a simple client-server network using multiple stations and multiple media types.
- ❖ Understand the legal issues and responsibilities of the trade off between the user's privacy and the organization's ownership of the network and its local and global impact on an organization.

	LESSON PLAN	Date: 21-10-12
	Sub Code & Sub Name : T145 COMPUTER NETWORKS Branch: CSE Year:III.B.Tech (A) Semester : VI	EWD:23-03-13

Unit syllabus: Unit: 1

Introduction: Use of Computer Networks- Network Hardware- Network software-Reference models Example Networks- Network Standardization. Physical Layer: The theoretical basis for Data communication- Guided Transmission Media

Objective:

This unit gives an overview of various network architectures, physical media, channel access techniques and the related link-level protocols.

Session No	Topics to be covered	No. of Classes	Date	Teaching Method
1	**Introduction** Use of Computer Networks	2	14.11.2012 15.11.2012	**BB**
2	Network Hardware	2	16.11.2012 17.11.2012	**BB**
3	Network Software	3	19.11.2012 20.11.2012 21.11.2012	**BB**
4	Reference models	3	22.11.2012 23.11.2012 24.11.2012	**BB**
5	Example Networks	3	26.11.2012 28.11.2012 29.11.2012	**BB**
8	Network Standardization	2	30.11.2012 01.12.2012	**BB**
7	**Physical Layer**：The theoretical basis for Data communication	2	03.12.2012 05.12.2012	**BB**
9	Guided Transmission Media	2	06.12.2012 07.12.2012	**BB**

Unit: II Data link layer: design issues- framing, error detection and correction, CRC, Elementary data link protocols- sliding window protocols. Medium Access Control Sub layer: Channel allocation problem- multiple access protocols- Ethernet- Data link layer switching.

Objective:

This unit gives an in-depth overview of Data Link Layer and medium access protocols for direct link networks.

Session No	Topics to be covered	No. of Classes	Date	Teaching Method
1	**Data link layer**: design issues framing	**2**	08.12.2012 10.12.2012	**BB**
2	Error detection and correction	**2**	12.12.2012 13.12.2012	**BB**
3	CRC	2	14.12.2012 15.12.2012	**BB**
4	Elementary data link protocols	2	17.12.2012 19.12.2012	**BB**
5	Sliding Window Protocols	2	20.12.2012 21.12.2012	**BB**
6	Medium Access Control Sub layer	1	22.12.2012	**BB**
7	Channel allocation problem	2	24.12.2012 26.12.2012	**BB**

8	Multiple Access Protocols	2	27.12.2012 28.12.2012	**BB**
9	Ethernet	1	29.12.2012 31.12.2012	**BB**
10	Data link layer switching	2	02.12.2013 03.12.2013	**BB**

UNIT-III Domain Testing: Domains and paths, Nice and ugly domains, domain testing, domains and interfaces testing, domains and testability

Objective:

The main objective of this unit is to impart a thorough knowledge of Internetworking and Routing Algorithms

Session No	Topics to be covered	No. of Classes	Date	Teaching Method
	Network layer design issues	2	04.01.2013 05.01.2013	**BB**
	Routing algorithms	3	21.01.2013 23.01.2013 24.01.2013	**BB**
	congestion control algorithms	2	25.01.2013 28.01.2013	**BB**
	Quality of service	2	30.01.2013 31.01.2013	**BB**
	Internetworking	2	01.02.2013 02.02.2013	**BB**
	Network layer in the Internet	2	04.02.2013 06.02.2013	**BB**

UNIT-IV Transport layer: Transport service- Elements of transport protocols- Internet transport protocols: TCP & UDP

Objective:

This unit deals with Adaptive Flow control, Adaptive retransmission and congestion avoidance mechanisms in TCP

Session No	Topics to be covered	No. of Classes	Date	Teaching Method
	Transport service	3	07.02.2013 08.02.2013 09.02.2013	**BB**
	Elements of transport protocols	3	11.02.2013 13.02.2013 14.02.2013	**BB**
	Internet transport protocols	3	15.02.2013 16.02.2013 18.02.2013	**BB**
	TCP & UDP	3	20.02.2013 21.02.2013 22.02.2013	**BB**

UNIT-V Application Layer: Domain Name System- Electronic Mail -the World Wide Web, Network Security.

Objective:

This unit deals with the various applications like Email, DNS, SNMP, PGP etc..

Session No	Topics to be covered	No. of Classes	Date	Teaching Method
	Application Layer	4	23.08.2012 25.02.2013 27.02.2013 28.02.2013	**BB**
	Domain Name System	3	01.03.2012 02.03.2013 04.03.2013	**BB**
	Electronic Mail	3	06.03.2013 07.03.2013 08.03.2013	**BB**
	World Wide Web	3	09.03.2013 11.03.2013 13.03.2013	**BB**

	Network Security	3	14.03.2013 15.03.2013 16.03.2013	**BB**

	Prepared by	**Approved by**
Signature		
Name	**G.V.Suresh**	**HOD/CSE**
Designation	**Associate Professor/CSE**	**Professor**
Date		

Unit-Wise Question Bank

UNIT-I

1. Write short notes on the following: a) Client server model b) MAN c) Interfaces and services.
2. a) How Internet does differ from WAN?

   b) What are the two reasons for using layered protocols?
3. a) Explain the reference model of Novell Network.

   b) Explain about the critique of the OSI Model and its protocols.
4. What are the factors that determine whether a communication system is a LAN, MAN or WAN?
5. a) Explain the design of original ARPANET.

   b) What are the three criteria necessary for an effective and efficient network?

UNIT-II

1. (a) Explain one -bit sliding window protocol. Give the advantages and disadvantages of one-bit sliding window protocol?
   (b) Discuss the services provided by the data link layer to the network layer?
2. (a) What is flow control? Why is essential at the data link layer? Mention few techniques for the same?
   (b) Explain how the band width wastage is reduced in case of sliding window protocol with selective repeat?
3. (a) Give the detailed description of PPP frame format?
   (b) Explain the following terms related to the data link layer i) Framing ii) Error control iii) Flow control.
4. (a) What is Hamming Distance? What must be hamming distance of single bit error detecting code?
   (b) Reliability of CRC is better than that of simple parity and LRC. Justify this statement.
   (c) What is meant by bit stuffing? Explain?
5. (a) What is meant by contention systems?
   (b) Explain CSMA/CD protocol.
   (c) Explain any one Collision free protocol.
6. (a) A channel has a bit rate of 4 kbps and a propagation delay of 20 msec. For what range of frame sizes does stop-and-wait give an efficiency of at least 50 percent?
   (b) Discuss about the various types of frames in HDLC protocol?

UNIT-III

1. a) Explain about spanning Tree Bridge.
   b) Explain about carrier sense multiple Access protocols
2. What is non- adaptive routing? Explain any two non- adaptive routing algorithms?
3. (a) Explain Dijkstra's shortest path algorithm.
   (b) Explain about Link State routing
4. (a) With an example, explain Hierarchical Routing Algorithm.
   (b) With an example, explain multicast Routing Algorithm
5. (a) What is Multicasting? How it is different from broadcasting. How do you construct a multicast tree? Explain with an example.
   (b) What are the applications of multicasting? Explain various restrictions at domain testing processes.

UNIT-IV

1. Explain congestion control in datagram subnets?
2. What is congestion? How does it differ from flow control? Discuss about the general principles of congestion? Briefly discuss about policies that affect congestion.
3. Reduction procedure algorithm for the following flow graph
4. (a) Explain in detail about IP addresses formats with a neat sketch.
   (b) Give a note on congestion prevention polices.
5. (a) In TCP Why three-way handshake is required for connection establishment and release.
   (b)Why TCP is not suitable for request-reply type of transfers

UNIT-V

1. What is DNS? What is its use? How DNS works?
2. (a) What is e-mail? How e-mail is different from ordinary file?
   (b) What is the role played by user agent in E-mail system?
3. (a) Briefly discuss about connection less Internetworking.
   (b) Explain firewalls, packet filter and a proxy in detail.
4. Write short notes on:
   (a) Digital signatures.
   (b) DNS.
   (c) Cryptography
5. (a) Explain in detail methods of DES chaining.
   (b) Briefly discuss about IDEA.

UNIT-I (online bits)

1. Which of the following protocols are examples of TCP/IP transport layer protocols?
a. Ethernet
b. HTTP
c. IP
d. UDP
e. SMTP
f. TCP

2. Which of the following protocols are examples of TCP/IP network access layer protocols?
a. Ethernet
b. HTTP
c. IP
d. UDP
e. SMTP
f. TCP
g. PPP

3. The process of HTTP asking TCP to send some data and make sure that it is received correctly is an example of what?
a. Same-layer interaction
b. Adjacent-layer interaction
c. The OSI model
d. All the other answers are correct.

4. The process of TCP on one computer marking a segment as segment 1, and the receiving computer then acknowledging the receipt of segment 1, is an example of what?
a. Data encapsulation
b. Same-layer interaction
c. Adjacent-layer interaction
d. The OSI model
e. None of these answers are correct.

5. The process of a web server adding a TCP header to a web page, followed by adding an IP header, and then a data link header and trailer is an example of what?
a. Data encapsulation
b. Same-layer interaction
c. The OSI model
d. All of these answers are correct.

6. Which of the following terms is used specifically to identify the entity that is created when encapsulating data inside data link layer headers and trailers?
a. Data
b. Chunk
c. Segment
d. Frame
e. Packet
f. None of these— there is any encapsulation by the data link layer.

7. Which OSI layer defines the functions of logical network-wide addressing and routing?
a. Layer 1
b. Layer 2
c. Layer 3
d. Layer 4
e. Layer 5
f. Layer 6
g. Layer 7

8. Which OSI layer defines the standards for cabling and connectors?
a. Layer 1
b. Layer 2
c. Layer 3
d. Layer 4
e. Layer 5
f. Layer 6
g. Layer 7

9. Which OSI layer defines the standards for data formats and encryption?
a. Layer 1
b. Layer 2
c. Layer 3
d. Layer 4
e. Layer 5
f. Layer 6
g. Layer 7

10. Which of the following terms are not valid terms for the names of the seven OSI layers?
a. Application
b. Data link
c. Transmission
d. Presentation
e. Internet
f. Session

Fill In The Blanks:
1. Number of links to connect n nodes in a mesh topology is = _____.
2. Mesh Topology is _____ flexible and has a _____ expandability
3. In BUS topology, at each end of the bus is a _____, which absorbs any signal, removing it from the bus.
4. In BUS topology, One can easily add any new node or delete any node with-out affecting other nodes; this makes this topology easily _____.
5. _____ and _____ will force a maximum length of shared medium which can be used in BUS topology.
6. The two alternatives for the operation of the central node in STAR topology are:
_____ and _____.
7. In Ring Topology, the links are _____; that is, data are transmitted in _____ direction only and all are oriented in the same way
8. _____ topology can be considered as an extension to BUS topology.
9. _____ is suitable for use in star and ring topologies
10. Coaxial cable is suitable for use in _____ topology.

	LESSON PLAN	Date: 21-10-12
	Sub Code & Sub Name : T145 COMPUTER NETWORKS	
	Branch: CSE Year:III.B.Tech(B) Semester : VI	EWD:23-03-13

T314 – SOFTWARE TESTING METHODOLOGIES

Lecture	**: 4 Periods/week**	**Internal Marks**	**: 25**
Tutorial	**: 1**	**External Marks**	**: 75**
Credits	**: 4**	**External Examination**	**: 3 Hrs**

UNIT - I

Introduction: Use of Computer Networks- Network Hardware- Network software-Reference models Example Networks- Network Standardization. Physical Layer: The theoretical basis for Data communication- Guided Transmission Media.

UNIT - II

Data link layer: design issues- framing, error detection and correction, CRC, Elementary data link protocols- sliding window protocols. Medium Access Control Sub layer: Channel allocation problem- multiple access protocols- Ethernet- Data link layer switching.

UNIT – III

Network layer: Network layer design issues- Routing algorithms- congestion control algorithms- Quality of service- Internetworking- network layer in the Internet.

UNIT - IV

Transport layer: Transport service- Elements of transport protocols- Internet transport protocols: TCP & UDP.

UNIT - V

Application Layer: Domain Name System- Electronic Mail -the World Wide Web, Network Security.

TEXT BOOK

Andrews S. Tanenbaum; "Computer Networks"; Fourth Edition, PHI.

REFERENCES

1. William Stallings; "Data and Computer Communications"; seventh Edition, Pearson Education.

2. Behrouz A .Fourouzan; "TCP/IP Protocol Suite"; Fourth Edition, Tata-McGraw Hill.

3. James F.Kurose, Keith W.ROSS; "Computer Networking - A Top-Down Approach featuring the Internet"; Pearson Education.

Course Description
Intended as a first course in communication networks for upper-level undergraduate students. Topics include basic techniques for channel transmission, error control, flow control, multiplexing, switching, routing, signalling, and scheduling. Students will also learn practical aspects of the Internet and telephone Networks

Course Objectives:

- Give students an understanding of the basic principles of computer networking
- Give students an overview of the main technologies used in computer networks.
- Give students an overview of internetworking principles and how the Internet protocols, routing, and applications operate.
- Give students the basic background in computer networks that will allow them to practice in this field, and that will form the foundation for more advanced courses in networking.

Course Outlines:

- Computer Networks and the Internet
- Application Layer
- Transport Layer
- Network Layer
- Data Link Layer and Local Area Networks

Student Learning Outcomes:

Upon the successful completion of this course students will be able to:

- ❖ Evaluate the operation and performance of practical data link protocols using the principles of framing, error detection and correction, ARQ and multiple access control.
- ❖ Apply the principles of network layer design to the analysis and evaluation of routing algorithms, congestion control techniques, internetworking and addressing;
- ❖ Apply the concepts of addressing and address resolution, connection establishment, reliable transport, flow control and congestion control to install a simple client-server network using multiple stations and multiple media types.
- ❖ Understand the legal issues and responsibilities of the trade off between the user's privacy and the organization's ownership of the network and its local and global impact on an organization.

	LESSON PLAN	Date: 21-10-12
	Sub Code & Sub Name : T145 COMPUTER NETWORKS Branch: CSE Year:III.B.Tech (B) Semester : VI	EWD:23-03-13

Unit syllabus: Unit: 1

Introduction: Use of Computer Networks- Network Hardware- Network software-Reference models Example Networks- Network Standardization. Physical Layer: The theoretical basis for Data communication- Guided Transmission Media

Objective:

This unit gives an overview of various network architectures, physical media, channel access techniques and the related link-level protocols.

Session No	Topics to be covered	No. of Classes	Date	Teaching Method
1	**Introduction** Use of Computer Networks	2	14.11.2012 15.11.2012	**BB**
2	Network Hardware	2	16.11.2012 17.11.2012	**BB**
3	Network Software	3	19.11.2012 20.11.2012 21.11.2012	**BB**
4	Reference models	3	22.11.2012 23.11.2012 24.11.2012	**BB**
5	Example Networks	3	26.11.2012 28.11.2012 29.11.2012	**BB**
8	Network Standardization	2	30.11.2012 01.12.2012	**BB**
7	**Physical Layer**：The theoretical basis for Data communication	2	03.12.2012 05.12.2012	**BB**
9	Guided Transmission Media	2	06.12.2012 07.12.2012	**BB**

Unit: II Data link layer: design issues- framing, error detection and correction, CRC, Elementary data link protocols- sliding window protocols. Medium Access Control Sub layer: Channel allocation problem- multiple access protocols- Ethernet- Data link layer switching.

Objective:

This unit gives an in-depth overview of Data Link Layer and medium access protocols for direct link networks.

Session No	Topics to be covered	No. of Classes	Date	Teaching Method
	Data link layer: design issues framing	**2**	08.12.2012 10.12.2012	**BB**
	Error detection and correction	**2**	12.12.2012 13.12.2012	**BB**
	CRC	2	14.12.2012 15.12.2012	**BB**
	Elementary data link protocols	2	17.12.2012 19.12.2012	**BB**
	Sliding Window Protocols	2	20.12.2012 21.12.2012	**BB**
	Medium Access Control Sub layer	1	22.12.2012	**BB**
	Channel allocation problem	2	24.12.2012 26.12.2012	**BB**

	Multiple Access Protocols	2	27.12.2012 28.12.2012	**BB**
	Ethernet	1	29.12.2012 31.12.2012	**BB**
	Data link layer switching	2	02.12.2013 03.12.2013	**BB**

UNIT-III Domain Testing: Domains and paths, Nice and ugly domains, domain testing, domains and interfaces testing, domains and testability

Objective:

The main objective of this unit is to impart a thorough knowledge of Internetworking and Routing Algorithms

Session No	Topics to be covered	No. of Classes	Date	Teaching Method
	Network layer design issues	2	04.01.2013 05.01.2013	**BB**
	Routing algorithms	3	21.01.2013 23.01.2013 24.01.2013	**BB**
	congestion control algorithms	2	25.01.2013 28.01.2013	**BB**
	Quality of service	2	30.01.2013 31.01.2013	**BB**
	Internetworking	2	01.02.2013 02.02.2013	**BB**
	Network layer in the Internet	2	04.02.2013 06.02.2013	**BB**

UNIT-IV Transport layer: Transport service- Elements of transport protocols- Internet transport protocols: TCP & UDP

Objective:

This unit deals with Adaptive Flow control, Adaptive retransmission and congestion avoidance mechanisms in TCP

Session No	Topics to be covered	No. of Classes	Date	Teaching Method
	Transport service	3	07.02.2013 08.02.2013 09.02.2013	**BB**
	Elements of transport protocols	3	11.02.2013 13.02.2013 14.02.2013	**BB**
	Internet transport protocols	3	15.02.2013 16.02.2013 18.02.2013	**BB**
	TCP & UDP	3	20.02.2013 21.02.2013 22.02.2013	**BB**

UNIT-V Application Layer: Domain Name System- Electronic Mail -the World Wide Web, Network Security.

Objective:

This unit deals with the various applications like Email, DNS, SNMP, PGP etc..

Session No	Topics to be covered	No. of Classes	Date	Teaching Method
	Application Layer	4	23.08.2012 25.02.2013 27.02.2013 28.02.2013	**BB**
	Domain Name System	3	01.03.2012 02.03.2013 04.03.2013	**BB**
	Electronic Mail	3	06.03.2013 07.03.2013 08.03.2013	**BB**
	World Wide Web	3	09.03.2013 11.03.2013 13.03.2013	**BB**

	Network Security	3	14.03.2013 15.03.2013 16.03.2013	**BB**

	Prepared by	**Approved by**
Signature		
Name	**G.V.Suresh**	**HOD/CSE**
Designation	**Associate Professor/CSE**	**Professor**
Date		

Unit-Wise Question Bank

UNIT-I

1. Write short notes on the following: a) Client server model b) MAN c) Interfaces and services.
2. a) How Internet does differ from WAN?

   b) What are the two reasons for using layered protocols?
3. a) Explain the reference model of Novell Network.

   b) Explain about the critique of the OSI Model and its protocols.
4. What are the factors that determine whether a communication system is a LAN, MAN or WAN?
5. a) Explain the design of original ARPANET.

   b) What are the three criteria necessary for an effective and efficient network?

UNIT-II

1. (a) Explain one -bit sliding window protocol. Give the advantages and disadvantages of one-bit sliding window protocol?
   (b) Discuss the services provided by the data link layer to the network layer?
2. (a) What is flow control? Why is essential at the data link layer? Mention few techniques for the same?
   (b) Explain how the band width wastage is reduced in case of sliding window protocol with selective repeat?
3. (a) Give the detailed description of PPP frame format?
   (b) Explain the following terms related to the data link layer i) Framing ii) Error control iii) Flow control.
4. (a) What is Hamming Distance? What must be hamming distance of single bit error detecting code?
   (b) Reliability of CRC is better than that of simple parity and LRC. Justify this statement.
   (c) What is meant by bit stuffing? Explain?
5. (a) What is meant by contention systems?
   (b) Explain CSMA/CD protocol.
   (c) Explain any one Collision free protocol.
6. (a) A channel has a bit rate of 4 kbps and a propagation delay of 20 msec. For what range of frame sizes does stop-and-wait give an efficiency of at least 50 percent?
   (b) Discuss about the various types of frames in HDLC protocol?

UNIT-III

1. a) Explain about spanning Tree Bridge.
   b) Explain about carrier sense multiple Access protocols
2. What is non- adaptive routing? Explain any two non- adaptive routing algorithms?
3. (a) Explain Dijkstra's shortest path algorithm.
   (b) Explain about Link State routing
4. (a) With an example, explain Hierarchical Routing Algorithm.
   (b) With an example, explain multicast Routing Algorithm
5. (a) What is Multicasting? How it is different from broadcasting. How do you construct a multicast tree? Explain with an example.
   (b) What are the applications of multicasting? Explain various restrictions at domain testing processes.

UNIT-IV

1. Explain congestion control in datagram subnets?
2. What is congestion? How does it differ from flow control? Discuss about the general principles of congestion? Briefly discuss about policies that affect congestion.
3. Reduction procedure algorithm for the following flow graph
4. (a) Explain in detail about IP addresses formats with a neat sketch.
   (b) Give a note on congestion prevention polices.
5. (a) In TCP Why three-way handshake is required for connection establishment and release.
   (b)Why TCP is not suitable for request-reply type of transfers

UNIT-V

1. What is DNS? What is its use? How DNS works?
2. (a) What is e-mail? How e-mail is different from ordinary file?
   (b) What is the role played by user agent in E-mail system?
3. (a) Briefly discuss about connection less Internetworking.
   (b) Explain firewalls, packet filter and a proxy in detail.
4. Write short notes on:
   (a) Digital signatures.
   (b) DNS.
   (c) Cryptography
5. (a) Explain in detail methods of DES chaining.
   (b) Briefly discuss about IDEA.

UNIT-I (online bits)

1. Which of the following protocols are examples of TCP/IP transport layer protocols?
a. Ethernet
b. HTTP
c. IP
d. UDP
e. SMTP
f. TCP

2. Which of the following protocols are examples of TCP/IP network access layer protocols?
a. Ethernet
b. HTTP
c. IP
d. UDP
e. SMTP
f. TCP
g. PPP

3. The process of HTTP asking TCP to send some data and make sure that it is received correctly is an example of what?
a. Same-layer interaction
b. Adjacent-layer interaction
c. The OSI model
d. All the other answers are correct.

4. The process of TCP on one computer marking a segment as segment 1, and the receiving computer then acknowledging the receipt of segment 1, is an example of what?
a. Data encapsulation
b. Same-layer interaction
c. Adjacent-layer interaction
d. The OSI model
e. None of these answers are correct.

5. The process of a web server adding a TCP header to a web page, followed by adding an IP header, and then a data link header and trailer is an example of what?
a. Data encapsulation
b. Same-layer interaction
c. The OSI model
d. All of these answers are correct.

6. Which of the following terms is used specifically to identify the entity that is created when encapsulating data inside data link layer headers and trailers?
a. Data
b. Chunk
c. Segment
d. Frame
e. Packet
f. None of these— there is any encapsulation by the data link layer.

7. Which OSI layer defines the functions of logical network-wide addressing and routing?
a. Layer 1
b. Layer 2
c. Layer 3
d. Layer 4
e. Layer 5
f. Layer 6
g. Layer 7

8. Which OSI layer defines the standards for cabling and connectors?
a. Layer 1
b. Layer 2
c. Layer 3
d. Layer 4
e. Layer 5
f. Layer 6
g. Layer 7

9. Which OSI layer defines the standards for data formats and encryption?
a. Layer 1
b. Layer 2
c. Layer 3
d. Layer 4
e. Layer 5
f. Layer 6
g. Layer 7

10. Which of the following terms are not valid terms for the names of the seven OSI layers?
a. Application
b. Data link
c. Transmission
d. Presentation
e. Internet
f. Session

Fill In The Blanks:
1. Number of links to connect n nodes in a mesh topology is = _____.
2. Mesh Topology is _____ flexible and has a _____ expandability
3. In BUS topology, at each end of the bus is a _____, which absorbs any signal, removing it from the bus.
4. In BUS topology, One can easily add any new node or delete any node with-out affecting other nodes; this makes this topology easily _____.
5. _____ and _____ will force a maximum length of shared medium which can be used in BUS topology.
6. The two alternatives for the operation of the central node in STAR topology are:
_____ and _____.
7. In Ring Topology, the links are _____; that is, data are transmitted in _____ direction only and all are oriented in the same way
8. _____ topology can be considered as an extension to BUS topology.
9. _____ is suitable for use in star and ring topologies
10. Coaxial cable is suitable for use in _____ topology.

LESSON PLAN

Course Code& Course Name: T238 LINUX INTERNALS **SEM:** VI

Programme: B.Tech **Department:** CSE – A Sec.

S No.	Tentative Date	Topics to be covered	Actual Date	Num. of classes	Content Delivery Methods
		UNIT-I: INTRODUCTION			
1.		OPERATING SYSTEM CONCEPTS	07.06.2012	1	DM1
2.		INTRODUCTION TO LINUX	08.06.2012	1	DM1
3.		TERMINALS AND SHELL	11.06.2012	1	DM1
4.		LINUX FILE SYSTEM	12.06.2012	1	DM1
5.		LINUX FILE SYSTEM	14.06.2012	1	DM1
6.		CONCEPTS OF LINUX	15.06.2012	1	DM1
7.		CONCEPTS OF LINUX	16.06.2012	1	DM1
8.		VI EDITOR	18.06.2012	1	DM1
9.		VI EDITOR	19.06.2012	1	DM1
10.		TUTORIAL	21.06.2012	1	DM2
11.		FILE COMMANDS	22.06.2012	1	DM1
12.		FILE COMMANDS	23.06.2012	1	DM1
13.		FILE COMMANDS	25.06.2012	1	DM1
14.		BASIC COMMANDS	26.06.2012	1	DM1
15.		BASIC COMMANDS	28.06.2012	1	DM1
16.		BASIC COMMANDS	29.06.2012	1	DM1
17.		PROCESS COMMANDS	30.06.2012	1	DM1
18.		PROCESS COMMANDS	02.07.2012	1	DM1
19.		FILTER COMMANDS	03.07.2012	1	DM1
20.		FILTER COMMANDS	05.07.2012	1	DM1
21.		REGULAR EXPRESSIONS	06.07.2012	1	DM1
22.		REGULAR EXPRESSIONS	07.07.2012	1	DM1
		UNIT-II: SHELL PROGRAMMING / SCRIPTS			
23.		SHELL OVERVIEW	09.07.2012	1	DM1
24.		USER	10.07.2012	1	DM1
25.		SHELL	12.07.2012	1	DM1
26.		VARIABLES, READ-ONLY VARIABLES	13.07.2012	1	DM1
27.		POSITIONAL PARAMETERS	14.07.2012	1	DM1
28.		CONTROL STRUCTURE	16.07.2012	1	DM1
29.		CONDITIONAL STRUCTURES	17.07.2012	1	DM1
30.		SCRIPTS	19.07.2012	1	DM1
31.		SCRIPTS	20.07.2012	1	DM1
32.		SYNCHRONIZATION IN THE KERNEL	21.07.2012	1	DM1
33.		COMMUNICATION VIA FILES	23.07.2012	1	DM1
34.		PIPES, REDIRECTIONS	24.07.2012	1	DM1
35.		DEBUGGING	26.07.2012	1	DM1
36.		SYSTEM V IPC, IPC WITH SOCKETS	27.07.2012	1	DM1
		UNIT-III: LINUX INTERNALS			
37.		LINUX KERNEL STRUCTURES	28.07.2012	1	DM1
38.		SYSTEM CALLS	06.08.2012	1	DM1
39.		FILE SUB-SYSTEM	07.08.2012	1	DM1
40.		PROCESS SUB-SYSTEM	09.08.2012	1	DM1
41.		LINUX SIGNALS	11.08.2012	1	DM1
42.		CLOCK & TIMERS	13.08.2012	1	DM1

43.		MEMORY MANAGEMENT	14.08.2012	1	DM1
44.		TUTORIAL	16.08.2012	1	DM2
45.		CHARACTERS AND BLOCK DEVICES	17.08.2012	1	DM1
46.		POLLING AND INTERRUPTS	18.08.2012	1	DM1
47.		ASSIGNMENT/TEST	21.08.2012	1	DM4
48.		HARDWARE	23.08.2012	1	DM1
49.		IMPLEMENTING A DRIVER	24.08.2012	1	DM1
50.		TUTORIAL	25.08.2012	1	DM2
51.		DMA OPERATION	27.08.2012	1	DM1
52.		DMA OPERATION	28.08.2012	1	DM2
53.		EXAMPLES OF DMA OPERATION	30.08.2012		DM1
54.		ASSIGNMENT/TEST	31.08.2012	1	DM4
	UNIT-IV: NETWORK IMPLEMENTATION				
55.		IMPORT STRUCTURES	01.09.2012	1	DM1
56.		NETWORK DEVICES UNDER LINUX	03.09.2012	1	DM1
57.		NETWORK DEVICES UNDER LINUX	04.09.2012	1	DM1
58.		ADDRESS RESOLUTION PROTOCOL	06.09.2012	1	DM1
59.		IP	07.09.2012	1	DM1
60.		UDP	08.09.2012	1	DM1
61.		TCP	10.09.2012	1	DM1
62.		TUTORIAL	11.09.2012	1	DM2
63.		WHAT IS MODULE	13.09.2012	1	DM1
64.		PARAMETER PASSING	14.09.2012	1	DM1
65.		KERNEL DAEMON	15.09.2012	1	DM1
66.		ASSIGNMENT/TEST	17.09.2012	1	DM4
67.		MODULE DEBUGGING	18.09.2012	1	DM1
68.		EXAMPLE MODULE DEBUGGING	18.09.2012	1	DM1
69.		TUTORIAL	20.09.2012	1	DM2
	UNIT-V: INTEL MULTI PROCESSOR				
70.		INTEL MULTI PROCESSOR	20.09.2012	1	DM1
71.		PROCESSOR SPECIFICATIONS	21.09.2012	1	DM1
72.		PROCESSOR SPECIFICATIONS	21.09.2012	1	DM1
73.		TUTORIAL	22.09.2012	1	DM2
74.		ADVANTAGES WITH MULTI PROCESSOR	22.09.2012	1	DM1
75.		DISADVANTAGES WITH PROCESSOR	24.09.2012	1	DM1
76.		ASSIGNMENT/TEST	24.09.2012	1	DM4
77.		CHANGE TO THE KERNEL	25.09.2012	1	DM1
78.		COMPILATION	25.09.2012	1	DM1
79.		COMPILING LINUX SMP	27.09.2012	1	DM1
80.		TUTORIAL	27.09.2012	1	DM2
81.		AWK LOOPS	28.09.2012	1	DM1
82.		AWK BUILT-IN VARIABLES	28.09.2012	1	DM1
83.		AWK ARRAYS	29.09.2012	1	DM1
				80	
Total number of classes required to complete the syllabus					**80**
Total number of classes available as per Schedule					**83**

	LESSON PLAN	
	Course Code& Course Name:T238 LINUX INTERNALS	**SEM:** VI
	Programme: B.Tech	**Department:** CSE – A Sec.

NOTE: DELIVERY METHODS : **DM1**: Lecture interspersed with discussions/BB, **DM2:** Tutorial, **DM3:** Lecture with a quiz, **DM4**: Assignment/Test, **DM5**: Demonstration (laboratory, field visit), **DM6:** Presentations/PPT

At the End of the course, students attained the **Course Outcomes:CO1,CO2,CO3,CO4,CO5** & sample proofs are enclosed in Course file.

Signature			
	Name of the Faculty	**Name of Course Co-ordinator**	**HOD**

LESSON PLAN

Course Code& Course Name: T238 LINUX INTERNALS **SEM:** VI

Programme: B.Tech **Department:** CSE – A Sec.

S No.	Tentative Date	Topics to be covered	Actual Date	Num. of classes	Content Delivery Methods
		UNIT-I: INTRODUCTION			
1.		OPERATING SYSTEM CONCEPTS	07.06.2012	1	DM1
2.		INTRODUCTION TO LINUX	08.06.2012	1	DM1
3.		TERMINALS AND SHELL	11.06.2012	1	DM1
4.		LINUX FILE SYSTEM	12.06.2012	1	DM1
5.		LINUX FILE SYSTEM	14.06.2012	1	DM1
6.		CONCEPTS OF LINUX	15.06.2012	1	DM1
7.		CONCEPTS OF LINUX	16.06.2012	1	DM1
8.		VI EDITOR	18.06.2012	1	DM1
9.		VI EDITOR	19.06.2012	1	DM1
10.		TUTORIAL	21.06.2012	1	DM2
11.		FILE COMMANDS	22.06.2012	1	DM1
12.		FILE COMMANDS	23.06.2012	1	DM1
13.		FILE COMMANDS	25.06.2012	1	DM1
14.		BASIC COMMANDS	26.06.2012	1	DM1
15.		BASIC COMMANDS	28.06.2012	1	DM1
16.		BASIC COMMANDS	29.06.2012	1	DM1
17.		PROCESS COMMANDS	30.06.2012	1	DM1
18.		PROCESS COMMANDS	02.07.2012	1	DM1
19.		FILTER COMMANDS	03.07.2012	1	DM1
20.		FILTER COMMANDS	05.07.2012	1	DM1
21.		REGULAR EXPRESSIONS	06.07.2012	1	DM1
22.		REGULAR EXPRESSIONS	07.07.2012	1	DM1
		UNIT-II: SHELL PROGRAMMING / SCRIPTS			
23.		SHELL OVERVIEW	09.07.2012	1	DM1
24.		USER	10.07.2012	1	DM1
25.		SHELL	12.07.2012	1	DM1
26.		VARIABLES, READ-ONLY VARIABLES	13.07.2012	1	DM1
27.		POSITIONAL PARAMETERS	14.07.2012	1	DM1
28.		CONTROL STRUCTURE	16.07.2012	1	DM1
29.		CONDITIONAL STRUCTURES	17.07.2012	1	DM1
30.		SCRIPTS	19.07.2012	1	DM1
31.		SCRIPTS	20.07.2012	1	DM1
32.		SYNCHRONIZATION IN THE KERNEL	21.07.2012	1	DM1
33.		COMMUNICATION VIA FILES	23.07.2012	1	DM1
34.		PIPES, REDIRECTIONS	24.07.2012	1	DM1
35.		DEBUGGING	26.07.2012	1	DM1
36.		SYSTEM V IPC, IPC WITH SOCKETS	27.07.2012	1	DM1
		UNIT-III: LINUX INTERNALS			
37.		LINUX KERNEL STRUCTURES	28.07.2012	1	DM1
38.		SYSTEM CALLS	06.08.2012	1	DM1
39.		FILE SUB-SYSTEM	07.08.2012	1	DM1
40.		PROCESS SUB-SYSTEM	09.08.2012	1	DM1
41.		LINUX SIGNALS	11.08.2012	1	DM1
42.		CLOCK & TIMERS	13.08.2012	1	DM1

43.		MEMORY MANAGEMENT	14.08.2012	1	DM1
44.		TUTORIAL	16.08.2012	1	DM2
45.		CHARACTERS AND BLOCK DEVICES	17.08.2012	1	DM1
46.		POLLING AND INTERRUPTS	18.08.2012	1	DM1
47.		ASSIGNMENT/TEST	21.08.2012	1	DM4
48.		HARDWARE	23.08.2012	1	DM1
49.		IMPLEMENTING A DRIVER	24.08.2012	1	DM1
50.		TUTORIAL	25.08.2012	1	DM2
51.		DMA OPERATION	27.08.2012	1	DM1
52.		DMA OPERATION	28.08.2012	1	DM2
53.		EXAMPLES OF DMA OPERATION	30.08.2012		DM1
54.		ASSIGNMENT/TEST	31.08.2012	1	DM4
	UNIT-IV: NETWORK IMPLEMENTATION				
55.		IMPORT STRUCTURES	01.09.2012	1	DM1
56.		NETWORK DEVICES UNDER LINUX	03.09.2012	1	DM1
57.		NETWORK DEVICES UNDER LINUX	04.09.2012	1	DM1
58.		ADDRESS RESOLUTION PROTOCOL	06.09.2012	1	DM1
59.		IP	07.09.2012	1	DM1
60.		UDP	08.09.2012	1	DM1
61.		TCP	10.09.2012	1	DM1
62.		TUTORIAL	11.09.2012	1	DM2
63.		WHAT IS MODULE	13.09.2012	1	DM1
64.		PARAMETER PASSING	14.09.2012	1	DM1
65.		KERNEL DAEMON	15.09.2012	1	DM1
66.		ASSIGNMENT/TEST	17.09.2012	1	DM4
67.		MODULE DEBUGGING	18.09.2012	1	DM1
68.		EXAMPLE MODULE DEBUGGING	18.09.2012	1	DM1
69.		TUTORIAL	20.09.2012	1	DM2
	UNIT-V: INTEL MULTI PROCESSOR				
70.		INTEL MULTI PROCESSOR	20.09.2012	1	DM1
71.		PROCESSOR SPECIFICATIONS	21.09.2012	1	DM1
72.		PROCESSOR SPECIFICATIONS	21.09.2012	1	DM1
73.		TUTORIAL	22.09.2012	1	DM2
74.		ADVANTAGES WITH MULTI PROCESSOR	22.09.2012	1	DM1
75.		DISADVANTAGES WITH PROCESSOR	24.09.2012	1	DM1
76.		ASSIGNMENT/TEST	24.09.2012	1	DM4
77.		CHANGE TO THE KERNEL	25.09.2012	1	DM1
78.		COMPILATION	25.09.2012	1	DM1
79.		COMPILING LINUX SMP	27.09.2012	1	DM1
80.		TUTORIAL	27.09.2012	1	DM2
81.		AWK LOOPS	28.09.2012	1	DM1
82.		AWK BUILT-IN VARIABLES	28.09.2012	1	DM1
83.		AWK ARRAYS	29.09.2012	1	DM1
				80	
Total number of classes required to complete the syllabus					**80**
Total number of classes available as per Schedule					**83**

	LESSON PLAN	
	Course Code& Course Name:T238 LINUX INTERNALS	**SEM:** VI
	Programme: B.Tech	**Department:** CSE – A Sec.

NOTE: DELIVERY METHODS : **DM1**: Lecture interspersed with discussions/BB, **DM2:** Tutorial, **DM3:** Lecture with a quiz, **DM4**: Assignment/Test, **DM5**: Demonstration (laboratory, field visit), **DM6:** Presentations/PPT

At the End of the course, students attained the **Course Outcomes:CO1,CO2,CO3,CO4,CO5** & sample proofs are enclosed in Course file.

Signature			
	Name of the Faculty	**Name of Course Co-ordinator**	**HOD**

LAKIREDDY BALIREDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

MYLAVARAM

P848 - LINUX INTERNALS LAB

Name of the faculty : Mr.K.Kotaiah Swammy **LESSON PLAN** A.Y.2014-2015

COMPUTER SCIENCE AND ENGINEERING VI SEMESTER A - SECTION

SNO.	DATE	TOPIC COVERED	MODE	REMARKS
1.	15.06.2012	**Cycle 1** Session-1 a)Log into the system b)Use vi editor to create a file called myfile.txt which contains some text. c)correct typing errors during creation. d)Save the file e)logout of the system Session-2 a)Log into the system b)open the file created in session 1 c)Add some text d)Change some text e)Delete some text f)Save the Changes g)Logout of the system Session-3 Practicing the commands PATH, man, echo, printf,script, passwd, uname, who, date, stty, pwd, cd, mkdir, rmdir, ls, cp, mv, rm, cat, more, wc, lp, od, tar, gzip and other commands.	DEMO AT LAB	
2.	22.06.2012	**Cycle 2** Session-1 a)Log into the system. b)Use the cat command to create a file containing the following data. Call it mytable use tabs to separate the fields. 1425 Ravi 15.65 4320 Ramu 26.27 6830 Sita 36.15 1450 Raju 21.86 c)Use the cat command to display the file, mytable. d)Use the vi command to correct any errors in the file, mytable. e)Use the sort command to sort the file mytable according to the first field. Call the sorted file my table (same name) f)Print the file mytable g)Use the cut and paste commands to swap fields 2 and 3 of mytable. Call it my table (same name) h)Print the new file, mytable i)Logout of the system. Session-2 Practicing the commands unlink, du, df, mount, umount, find, unmask, ulimit, ps,w, finger, arp, ftp, telnet, rlogin	DEMO AT LAB	
3.	29.06.2012	**Cycle 3** Session-1 Practicing the commands tail, head, nl, uniq, tee, pg, comm, cmp, diff, tr,cpio. Session-2 1) a)Login to the system b)Use the appropriate command to determine your login shell	DEMO AT LAB	
4.	06.07.2012	c)Use the /etc/passwd file to verify the result of step b. d)Use the who command and redirect the result to a file called myfile1. Use the more command to see the contents of myfile1. e)Use the date and who commands in sequence (in one line) such that the output of date will display on the screen and the output of who will be redirected to a file called myfile2. Use the more command to check the contents of myfile2. 2) Pipe your/etc/passwd file to awk, and print out the home directory of each user.	DEMO AT LAB	
5.	13.07.2012	**Cycle 4** a)Develop an interactive grep script that asks for a word and a file name and then tells how many lines contain that word b)Write a sed command that deletes the first character in each line in a file. c)Write a sed command that deletes the character before the last character in each line in a file. d)Write a sed command that swaps the first and second words in each line in a file.	DEMO AT LAB	
6.	20.07.2012	**Cycle 5** a)Write a shell script that takes a command –line argument and reports on whether it is directory, a file, or something else. b)Write a shell script that accepts one or more file name as arguments and converts all of them to uppercase, provided they exist in the current directory.	DEMO AT LAB	
7.	27.07.2012	**Cycle 6** a)Write a shell script that determines the period for which a specified user is working on the system b)Write a shell script that accepts a file name starting and ending line numbers as arguments and displays all the lines between the given line numbers.	DEMO AT LAB	
8.	03.08.2012	**Cycle 7** a)Write a shell script that deletes all lines containing a specified word in one or more files supplied as arguments to it. b)Write a shell script that computes the gross salary of a employee according to the following rules: i)If basic salary is < 1500 then HRA =10% of the basic and DA =90% of the basic. ii)If basic salary is >=1500 then HRA =Rs500 and DA=98% of the basic The basic salary is entered interactively through the key board.	DEMO AT LAB	
9.	17.08.2012	**Cycle 8** a)Write a shell script that accepts two integers as its arguments and computers the value of first number raised to the power of the second number. b)Write an interactive file-handling shell program. Let it offer the user the choice of copying, removing, renaming, or linking files. Once the user has made a choice, have the program ask the user for the necessary information, such as the file name, new name and so on.	DEMO AT LAB	
10.	24.08.2012	**Cycle 9** a)Write shell script that takes a login name as command – line argument and reports when that person logs in b)Write a shell script which receives two file names as arguments. It should check whether the two file contents are same or not. If they are same then second file should be deleted.	DEMO AT LAB	
11.	31.08.2012	**Cycle 10** a)Write a shell script that displays a list of all the files in the current directory to which the user has read, write and execute permissions. b)Develop an interactive script that ask for a word and a file name and then tells how many times that word occurred in the file. c)Write a shell script to perform the following string operations: i)To extract a sub-string from a given string. ii)To find the length of a given string.	DEMO AT LAB	
12.	07.09.2012	REVISION	PRACTICE	
13.	14.09.2012	REVISION		
14.	21.09.2012	REVISION	ON PAPER & ON SYSTEM	
15.	28.09.2012	INTERNAL LAB EXAM		
16.				

LAKIREDDY BALIREDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

MYLAVARAM

P848 - LINUX INTERNALS LAB

Name of the faculty : Mr.K.Kotaiah Swammy **LESSON PLAN** A.Y.2014-2015

COMPUTER SCIENCE AND ENGINEERING VI SEMESTER A - SECTION

SNO.	DATE	TOPIC COVERED	MODE	REMARKS
1.	15.06.2012	**Cycle 1** Session-1 a)Log into the system b)Use vi editor to create a file called myfile.txt which contains some text. c)correct typing errors during creation. d)Save the file e)logout of the system Session-2 a)Log into the system b)open the file created in session 1 c)Add some text d)Change some text e)Delete some text f)Save the Changes g)Logout of the system Session-3 Practicing the commands PATH, man, echo, printf,script, passwd, uname, who, date, stty, pwd, cd, mkdir, rmdir, ls, cp, mv, rm, cat, more, wc, lp, od, tar, gzip and other commands.	DEMO AT LAB	
2.	22.06.2012	**Cycle 2** Session-1 a)Log into the system. b)Use the cat command to create a file containing the following data. Call it mytable use tabs to separate the fields. 1425 Ravi 15.65 4320 Ramu 26.27 6830 Sita 36.15 1450 Raju 21.86 c)Use the cat command to display the file, mytable. d)Use the vi command to correct any errors in the file, mytable. e)Use the sort command to sort the file mytable according to the first field. Call the sorted file my table (same name) f)Print the file mytable g)Use the cut and paste commands to swap fields 2 and 3 of mytable. Call it my table (same name) h)Print the new file, mytable i)Logout of the system. Session-2 Practicing the commands unlink, du, df, mount, umount, find, unmask, ulimit, ps,w, finger, arp, ftp, telnet, rlogin	DEMO AT LAB	
3.	29.06.2012	**Cycle 3** Session-1 Practicing the commands tail, head, nl, uniq, tee, pg, comm, cmp, diff, tr,cpio. Session-2 1) a)Login to the system b)Use the appropriate command to determine your login shell	DEMO AT LAB	
4.	06.07.2012	c)Use the /etc/passwd file to verify the result of step b. d)Use the who command and redirect the result to a file called myfile1. Use the more command to see the contents of myfile1. e)Use the date and who commands in sequence (in one line) such that the output of date will display on the screen and the output of who will be redirected to a file called myfile2. Use the more command to check the contents of myfile2. 2) Pipe your/etc/passwd file to awk, and print out the home directory of each user.	DEMO AT LAB	
5.	13.07.2012	**Cycle 4** a)Develop an interactive grep script that asks for a word and a file name and then tells how many lines contain that word b)Write a sed command that deletes the first character in each line in a file. c)Write a sed command that deletes the character before the last character in each line in a file. d)Write a sed command that swaps the first and second words in each line in a file.	DEMO AT LAB	
6.	20.07.2012	**Cycle 5** a)Write a shell script that takes a command –line argument and reports on whether it is directory, a file, or something else. b)Write a shell script that accepts one or more file name as arguments and converts all of them to uppercase, provided they exist in the current directory.	DEMO AT LAB	
7.	27.07.2012	**Cycle 6** a)Write a shell script that determines the period for which a specified user is working on the system b)Write a shell script that accepts a file name starting and ending line numbers as arguments and displays all the lines between the given line numbers.	DEMO AT LAB	
8.	03.08.2012	**Cycle 7** a)Write a shell script that deletes all lines containing a specified word in one or more files supplied as arguments to it. b)Write a shell script that computes the gross salary of a employee according to the following rules: i)If basic salary is < 1500 then HRA =10% of the basic and DA =90% of the basic. ii)If basic salary is >=1500 then HRA =Rs500 and DA=98% of the basic The basic salary is entered interactively through the key board.	DEMO AT LAB	
9.	17.08.2012	**Cycle 8** a)Write a shell script that accepts two integers as its arguments and computers the value of first number raised to the power of the second number. b)Write an interactive file-handling shell program. Let it offer the user the choice of copying, removing, renaming, or linking files. Once the user has made a choice, have the program ask the user for the necessary information, such as the file name, new name and so on.	DEMO AT LAB	
10.	24.08.2012	**Cycle 9** a)Write shell script that takes a login name as command – line argument and reports when that person logs in b)Write a shell script which receives two file names as arguments. It should check whether the two file contents are same or not. If they are same then second file should be deleted.	DEMO AT LAB	
11.	31.08.2012	**Cycle 10** a)Write a shell script that displays a list of all the files in the current directory to which the user has read, write and execute permissions. b)Develop an interactive script that ask for a word and a file name and then tells how many times that word occurred in the file. c)Write a shell script to perform the following string operations: i)To extract a sub-string from a given string. ii)To find the length of a given string.	DEMO AT LAB	
12.	07.09.2012	REVISION	PRACTICE	
13.	14.09.2012	REVISION		
14.	21.09.2012	REVISION	ON PAPER & ON SYSTEM	
15.	28.09.2012	INTERNAL LAB EXAM		
16.				

SCHOOL OF MANAGEMENT STUDIES

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

L.B.REDDY NAGAR, MYLAVARAM – 521 230

Professional Ethics Sec –A-Lesson Plan

S.No.	Date	Topics to be covered
1	14-11-12	Discussion about Syllabus
2	14-11-12	Introduction to Professional Ethics
	16-11-12	**Unit 1:** Scope & Approaches, Senses of 'Engineering Ethics'
3	19-11-12	Variety of moral issues, Types of inquiry
4	21-11-12	Moral dilemmas ,Moral autonomy
	23-11-12	Kohlberg's theory & Gilligan's theory
5	26-11-12	consensus and controversy, Models of Professional Roles
7	28-11-12	Utilitarian theory, duty ethics Theory.
8	30-11-12	Right theory, justice theory
9	03-12-12	Virtue theory & Self realization ethics
10	05-12-12	Self interest ,customs & religions
11	07-12-12	Tutorial
12	10-12-12	**Unit 2:** Introduction, Morals, Values and Ethics,
13	12-12-12	Integrity, Work Ethics, Service Learning,
14	14-12-12	Civic Virtue, Respect for Others, Courage
15	17-12-12	Living Peacefully ,Caring, Sharing, Honesty, valuing time
16	19-12-12	Empathy, Self Confidence, co-operation
17	21-12-12	Character, Spirituality, Values ,Commitment
18	24-12-12	Tutorial
19	26-12-12	**Unit3**: Engineering as experimentation, engineering projects (vs) standard projects
20	28-12-12	Engineers as responsible experimenters
21	31-12-12	Codes of ethics, a balanced outlook on law
22	02-01-13	The challenger case study
23	04-01-13	Tutorial
24	21-01-13	Mid papers discrimination
25	23-01-13	**Unit 4:** Introduction to Safety and risk assessment of safety and risk.
26	25-01-13	risk benefit analysis and reducing risk, Collegiality and loyalty
27	28-01-13	Respect for authority collective bargaining
28	30-01-13	Confidentiality, conflicts of interest & types, Occupational crime
29	1-02-13	Professional rights, employee rights.
30	04-02-13	Intellectual Property Rights (IPR) discrimination.
31	06-02-13	Intellectual Property Rights (IPR) discrimination

32	08-02-13	The Three Mile Island and Chernobyl case studies
33	11-02-13	Tutorial
34	13-02-13	**Unit 5:**Introduction, multinational organisations,
35	15-02-13	Computer ethics
36	18-02-13	computer crimes ,privacy &anonymity
37	20-02-13	Environmental ethics
38	22-02-13	Weapons development
39	25-02-13	Consulting engineers,
40	27-02-13	engineers as managers
41	01-03-13	Engineers as expert witnesses and advisors
42	04-03-13	Moral leadership
43	06-03-13	Sample code of Ethics in general
44	08-03-13	Sample code of ethics specific to EIE
45	11-03-13	Tutorial
46	13-03-13	Advanced topics
47	15-03-13	Advanced topics
48	18-03-13	Advanced topics
49	20-03-13	Advanced topics
50	22-03-13	Advanced topics

Signature of the faculty **Head of the Department**

SCHOOL OF MANAGEMENT STUDIES

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

L.B.REDDY NAGAR, MYLAVARAM – 521 230

Professional Ethics Sec –B-Lesson Plan

S.No.	Date	Topics to be covered
1	15-11-12	Introduction to Professional Ethics
2	17-11-12	**Unit 1:** Scope & Objectives of Engineering Ethics.
3	20-11-12	Approaches, Senses of 'Engineering Ethics'
4	22-11-12	Variety of moral issues, Types of inquiry
5	24-11-12	Moral dilemmas ,Moral autonomy
7	27-11-12	Kohlberg's theory & Gilligan's theory
8	29-11-12	consensus and controversy, Models of Professional Roles
9	01-11-12	Utilitarian theory, duty ethics Theory.
10	04-11-12	Right theory, justice theory
11	06-12-12	Virtue theory & Self realization ethics
12	08-12-12	Self interest ,customs & religions
13	11-12-12	Tutorial
14	13-12-12	**Unit 2:** Introduction, Morals, Values and Ethics,
15	15-12-12	Integrity, Work Ethics, Service Learning,
16	18-12-12	Civic Virtue, Respect for Others, Courage
17	20-12-12	Living Peacefully ,Caring, Sharing, Honesty, valuing time
18	22-12-12	Empathy, Self Confidence, co-operation
19	27-12-12	Character, Spirituality, Values ,Commitment
20	29-12-12	Tutorial
21	01-01-13	**Unit3**: Engineering as experimentation, engineering projects (vs) standard projects
22	03-01-13	Engineers as responsible experimenters
23	05-01-13	Codes of ethics, a balanced outlook on law
24	22-01-13	The challenger case study
25	24-01-13	Tutorial
26	29-01-13	Mid papers discrimination
27	31-01-13	**Unit 4:** Introduction to Safety and risk assessment of safety and risk.
28	02-02-13	risk benefit analysis and reducing risk, Collegiality and loyalty
29	05-02-13	Respect for authority collective bargaining
30	07-02-13	Confidentiality, conflicts of interest & types, Occupational crime
31	09-02-13	Professional rights, employee rights.
32	12-02-13	Intellectual Property Rights (IPR) discrimination.
33	14-02-13	Intellectual Property Rights (IPR) discrimination
34	16-02-13	The Three Mile Island and Chernobyl case studies

35	19-02-13	Tutorial
36	21-02-13	**Unit 5:**Introduction, multinational organisations,
37	23-02-13	Computer ethics
38	26-02-13	computer crimes ,privacy &anonymity
39	28-02-13	Environmental ethics
40	02-03-13	Weapons development
41	05-03-13	Consulting engineers,
42	07-03-13	engineers as managers
43	09-03-13	Engineers as expert witnesses and advisors
44	12-03-13	Moral leadership
45	14-03-13	Sample code of Ethics in general
46	16-03-13	Sample code of ethics specific to EIE
47	19-03-13	Tutorial
48	21-03-13	Advanced topics
49	23-03-13	Advanced topics

Signature of the faculty **Head of the Department**

	Sub Name : **WEB TECHNOLOGIES LAB** **Branch: B.Tech CSE** **Semester& Section: VI –A Section** Faculty name: B.Shyamala	

1) Syllabus credits: 4

Week-1:
Design the following static web pages required for an online book store web site.
1) **HOME PAGE:**
The static home page must contain three **frames**.
Top frame: Logo and the college name and links to Home page, Login page, Registration page, Catalogue page and Cart page (the description of these pages will be given below).
Left frame: At least four links for navigation, which will display the catalogue of respective links.
For e.g.: When you click the link **"CSE"** the catalogue for **CSE** Books should be displayed in the Right frame.
Right frame: The *pages to the links in the left frame must be loaded here*. Initially this page contains description of the web site.

2) LOGIN PAGE:
3) CATOLOGUE PAGE:
The catalogue page should contain the details of all the books available in the web site in a table.
The details should contain the following:
1. Snap shot of Cover Page.
2. Author Name.
3. Publisher.
4. Price.
5. Add to cart button.
Note: Week 2 contains the remaining pages and their description.

Week-2:
4) CART PAGE:
The cart page contains the details about the books which are added to the cart.
5) REGISTRATION PAGE:
Create a "*registration form* "with the following fields
1) Name (Text field)
2) Password (password field)
3) E-mail id (text field)
4) Phone number (text field)
5) Sex (radio button)
6) Date of birth (3 select boxes)
7) Languages known (check boxes – English, Telugu, Hindi, Tamil)
8) Address (text area)

WEEK 3:
VALIDATION:
Write *JavaScript* to validate the following fields of the above registration page.
1. Name (Name should contains alphabets and the length should not be less than 6 characters).
2. Password (Password should not be less than 6 characters length).
3. E-mail id (should not contain any invalid and must follow the standard pattern name@domain.com)
4. Phone number (Phone number should contain 10 digits only).
Note : You can also validate the login page with these parameters.

	Sub Name : **WEB TECHNOLOGIES LAB** **Branch: B.Tech CSE** **Semester& Section: VI –A Section** Faculty name: B.Shyamala	

Week-4:
Design a web page using **CSS (C**ascading **S**tyle **S**heets**)** which includes the following:
1) Use different font, styles:
In the style definition you define how each selector should work (font, color etc.).
Then, in the body of your pages, you refer to these selectors to activate the styles.

2) Set a background image for both the page and single elements on the page.

3) Control the repetition of the image with the background-repeat property.
As background-repeat: repeat
Tiles the image until the entire page is filled, just like an ordinary background image in plain HTML.

4) Define styles for links as
A:link
A:visited
A:active
A:hover

5) Work with layers:

6) Add a customized cursor:
Selector {cursor:value}

Week-5:
Write an XML file which will display the Book information which includes the following:
1) Title of the book
2) Author Name
3) ISBN number
4) Publisher name
5) Edition
6) Price
Write a Document Type Definition (DTD) to validate the above XML file.
Display the XML file as follows.
The contents should be displayed in a table. The header of the table should be in color GREY. And the Author names column should be displayed in one color and should be capitalized and in bold. Use your own colors for remaining columns.
Use XML schemas XSL and CSS for the above purpose.
Note: Give at least for 4 books. It should be valid syntactically.
Hint: You can use some xml editors like XML-spy

Week-6:
VISUAL BEANS:
Create a simple visual bean with a area filled with a color.
The shape of the area depends on the property shape. If it is set to true then the shape of the area is Square and it is Circle, if it is false.
The color of the area should be changed dynamically for every mouse click. The color should also be changed if we change the color in the “property window “.

Week-7:
1) Install TOMCAT web server and APACHE.
While installation assign port number 4040 to TOMCAT and 8080 to APACHE. Make sure that these ports are available i.e., no other process is using this port.
2) Access the above developed static web pages for books web site, using these servers by

putting the web pages developed in week-1 and week-2 in the document root.
Access the pages by using the urls : http://localhost:4040/rama/books.html (for tomcat)
http://localhost:8080/books.html (for Apache)

Week-8:
User Authentication :
Assume four users user1,user2,user3 and user4 having the passwords pwd1,pwd2,pwd3 and pwd4 respectively. Write a servelet for doing the following.
1. Create a Cookie and add these four user id's and passwords to this Cookie.
2. Read the user id and passwords entered in the Login form (week1) and authenticate with the values (user id and passwords) available in the cookies.
If he is a valid user(i.e., user-name and password match) you should welcome him by name(user-name) else you should display " You are not an authenticated user ".
Use init-parameters to do this. Store the user-names and passwords in the webinf.xml and access them in the servlet by using the getInitParameters() method.

Week-9:
Install a database(Mysql or Oracle).
Create a table which should contain at least the following fields: name, password, email-id, phone number(these should hold the data from the registration form).
Practice 'JDBC' connectivity.
Write a java program/servlet/JSP to connect to that database and extract data from the tables and display them. Experiment with various SQL queries.
Insert the details of the users who register with the web site, whenever a new user clicks the submit button in the registration page (week2).

Week-10:
Write a JSP which does the following job:
Insert the details of the 3 or 4 users who register with the web site (week9) by using registration form. Authenticate the user when he submits the login form using the user name and password from the database (similar to week8 instead of cookies).
Week-11:
Create tables in the database which contain the details of items (books in our case like Book name , Price, Quantity, Amount)) of each category. Modify your catalogue page (week 2)in such a way that you should connect to the database and extract data from the tables and display them in the catalogue page using JDBC.
Week-12:
HTTP is a stateless protocol. Session is required to maintain the state.
The user may add some items to cart from the catalog page. He can check the cart page for the selected items. He may visit the catalogue again and select some more items. Here our interest is the selected items should be added to the old cart rather than a new cart. Multiple users can do the same thing at a time(i.e., from different systems in the LAN using the ip-address instead of localhost). This can be achieved through the use of sessions. Every user will have his own session which will be created after his successful login to the website. When the user logs out his session should get invalidated (by using the method session.invalidate()).
Modify your catalogue and cart JSP pages to achieve the above mentioned functionality using sessions.

	Sub Name : **WEB TECHNOLOGIES LAB** **Branch: B.Tech CSE** **Semester& Section: VI –A Section** Faculty name: B.Shyamala	

2) Course EducationObjective (CEO)

To build a website, you need deep mastery of various technologies like HTMl, javascript, Servlets, JSP and JDBC.

To teach students various technologies like HTML, JavaScript, XML,Java Beans, Servlets, JSP and JDBC. In this lab we teach how to design a basic web site and how to design dynamic web pages using HTML and Java Script languages. We employ basic XML specifications, technologies and applications, including XML Schema, XSLT.Writing Servlets using java programming language and how to deploy Servelts using Apache Tomcat Web server. Developing dynamic contents using JSP. To provide database connectivity using JDBC. The main objective behind introduction of this course is to develop web sites which are secure and dynamic in nature

Student Learning Outcomes:

Upon the successful completion of this lab students will be able to:

1. Design web pages using HTML language.
2. Design dynamic web pages using Java Script language.
3. Design and deploy XML applications.
4. Design and deploy Servlets using Tomcat Server.
5. Design JSP pages.
6. Provide Database Connectivity using JDBC.

	Sub Name : **WEB TECHNOLOGIES LAB** **Branch: B.Tech CSE** **Semester& Section: VI –A Section** Faculty name: B.Shyamala	

Session No	Program to be executed	Date	Remarks
1		15-11-2012	Cycle-1
2	Sample programs using basic HTML tags	22-11-2012	
3	Sample programs using CSS and Java Script	29-11-2012	
4	Design a home page, login page, catalogue page	06-12-2012	
5	Design a cart page, registration page	13-12-2012	
6	Perform validation on registration page using JavaScript	20-12-2012	
7	Design a web page using CSS	27-12-2012	
8	Write an XML file which will display the book information	03-01-2013	
9	Create a simple visual bean with a area filled with a color.	24-01-2013	Cycle-2
10	Install TOMCAT web server and APACHE.	31-01-2013	
11	Perform user authentication using servlets	07-02-2013	
12	Install a database(Mysql or Oracle) and Write a java program/servlet/JSP to connect to that database and extract data from the tables and display them.	14-02-2013	
13	Write a JSP to perform user authentication.	21-02-2013	
14	Modify catalogue page (week 2)in such a way that you should connect to the database and extract data from the tables and display them in the catalogue page using JDBC.	28-02-2013	
15	Modify catalogue and cart JSP pages using sessions.	07-03-2013	
16	Internal exam	14-03-2013	
17	Exam	21-03-2013	

	Sub Name : **WEB TECHNOLOGIES LAB** **Branch: B.Tech CSE** **Semester& Section: VI –A Section** Faculty name: B.Shyamala	

Session No	Program to be executed	Date	Remarks
1	Sample programs using basic HTML tags	15.06.2012	Cycle-1
2	Sample programs using CSS and Java Script	22.06.2012	
3	Design a home page, login page, catalogue page	29.06.2012	
4	Design a cart page, registration page	06.07.2012	
5	Perform validation on registration page using JavaScript	13.07.2012	
6	Design a web page using CSS	20.07.2012	
7	Write an XML file which will display the book information	27.07.2012	
8	Create a simple visual bean with a area filled with a color.	03.08.2012	
9	Install TOMCAT web server and APACHE.	17.08.2012	Cycle-2
10	Perform user authentication using servlets	24.08.2012	
11	Install a database(Mysql or Oracle) and Write a java program/servlet/JSP to connect to that database and extract data from the Tables and display them.	31.08.2012	
12	Write a JSP to perform user authentication.	07.09.2012	
13	Modify catalogue page (week 2)in such a way that you should connect to the database and extract data from the tables and display them in the catalogue page using JDBC.	14.09.2012	
14	Modify catalogue and cart JSP pages using sessions.	21.09.2012	
15	exam	28.09.2012	

	Sub Name : **WEB TECHNOLOGIES LAB** **Branch: B.Tech CSE** **Semester& Section: VI –B Section** Faculty name: B.Shyamala	

1) Syllabus credits: 4

Week-1:
Design the following static web pages required for an online book store web site.
1) **HOME PAGE:**
The static home page must contain three **frames**.
Top frame: Logo and the college name and links to Home page, Login page, Registration page, Catalogue page and Cart page (the description of these pages will be given below).
Left frame: At least four links for navigation, which will display the catalogue of respective links.
For e.g.: When you click the link **"CSE"** the catalogue for **CSE** Books should be displayed in the Right frame.
Right frame: The *pages to the links in the left frame must be loaded here*. Initially this page contains description of the web site.

2) LOGIN PAGE:
3) CATOLOGUE PAGE:
The catalogue page should contain the details of all the books available in the web site in a table.
The details should contain the following:
1. Snap shot of Cover Page.
2. Author Name.
3. Publisher.
4. Price.
5. Add to cart button.
Note: Week 2 contains the remaining pages and their description.

Week-2:
4) CART PAGE:
The cart page contains the details about the books which are added to the cart.
5) REGISTRATION PAGE:
Create a "*registration form* "with the following fields
1) Name (Text field)
2) Password (password field)
3) E-mail id (text field)
4) Phone number (text field)
5) Sex (radio button)
6) Date of birth (3 select boxes)
7) Languages known (check boxes – English, Telugu, Hindi, Tamil)
8) Address (text area)

WEEK 3:
VALIDATION:
Write *JavaScript* to validate the following fields of the above registration page.
1. Name (Name should contains alphabets and the length should not be less than 6 characters).
2. Password (Password should not be less than 6 characters length).
3. E-mail id (should not contain any invalid and must follow the standard pattern name@domain.com)
4. Phone number (Phone number should contain 10 digits only).
Note : You can also validate the login page with these parameters.

	Sub Name : **WEB TECHNOLOGIES LAB** **Branch: B.Tech CSE** **Semester& Section: VI –B Section** Faculty name: B.Shyamala	

Week-4:
Design a web page using **CSS (C**ascading **S**tyle **S**heets**)** which includes the following:
1) Use different font, styles:
In the style definition you define how each selector should work (font, color etc.).
Then, in the body of your pages, you refer to these selectors to activate the styles.

2) Set a background image for both the page and single elements on the page.

3) Control the repetition of the image with the background-repeat property.
As background-repeat: repeat
Tiles the image until the entire page is filled, just like an ordinary background image in plain HTML.

4) Define styles for links as
A:link
A:visited
A:active
A:hover

5) Work with layers:

6) Add a customized cursor:
Selector {cursor:value}

Week-5:
Write an XML file which will display the Book information which includes the following:
1) Title of the book
2) Author Name
3) ISBN number
4) Publisher name
5) Edition
6) Price
Write a Document Type Definition (DTD) to validate the above XML file.
Display the XML file as follows.
The contents should be displayed in a table. The header of the table should be in color GREY. And the Author names column should be displayed in one color and should be capitalized and in bold. Use your own colors for remaining columns.
Use XML schemas XSL and CSS for the above purpose.
Note: Give at least for 4 books. It should be valid syntactically.
Hint: You can use some xml editors like XML-spy

Week-6:
VISUAL BEANS:
Create a simple visual bean with a area filled with a color.
The shape of the area depends on the property shape. If it is set to true then the shape of the area is Square and it is Circle, if it is false.
The color of the area should be changed dynamically for every mouse click. The color should also be changed if we change the color in the “property window “.

Week-7:
1) Install TOMCAT web server and APACHE.
While installation assign port number 4040 to TOMCAT and 8080 to APACHE. Make sure that these ports are available i.e., no other process is using this port.
2) Access the above developed static web pages for books web site, using these servers by

putting the web pages developed in week-1 and week-2 in the document root.
Access the pages by using the urls : http://localhost:4040/rama/books.html (for tomcat)
http://localhost:8080/books.html (for Apache)

Week-8:
User Authentication :
Assume four users user1,user2,user3 and user4 having the passwords pwd1,pwd2,pwd3 and pwd4 respectively. Write a servelet for doing the following.
1. Create a Cookie and add these four user id's and passwords to this Cookie.
2. Read the user id and passwords entered in the Login form (week1) and authenticate with the values (user id and passwords) available in the cookies.
If he is a valid user(i.e., user-name and password match) you should welcome him by name(user-name) else you should display " You are not an authenticated user ".
Use init-parameters to do this. Store the user-names and passwords in the webinf.xml and access them in the servlet by using the getInitParameters() method.

Week-9:
Install a database(Mysql or Oracle).
Create a table which should contain at least the following fields: name, password, email-id, phone number(these should hold the data from the registration form).
Practice 'JDBC' connectivity.
Write a java program/servlet/JSP to connect to that database and extract data from the tables and display them. Experiment with various SQL queries.
Insert the details of the users who register with the web site, whenever a new user clicks the submit button in the registration page (week2).

Week-10:
Write a JSP which does the following job:
Insert the details of the 3 or 4 users who register with the web site (week9) by using registration form. Authenticate the user when he submits the login form using the user name and password from the database (similar to week8 instead of cookies).
Week-11:
Create tables in the database which contain the details of items (books in our case like Book name , Price, Quantity, Amount)) of each category. Modify your catalogue page (week 2)in such a way that you should connect to the database and extract data from the tables and display them in the catalogue page using JDBC.
Week-12:
HTTP is a stateless protocol. Session is required to maintain the state.
The user may add some items to cart from the catalog page. He can check the cart page for the selected items. He may visit the catalogue again and select some more items. Here our interest is the selected items should be added to the old cart rather than a new cart. Multiple users can do the same thing at a time(i.e., from different systems in the LAN using the ip-address instead of localhost). This can be achieved through the use of sessions. Every user will have his own session which will be created after his successful login to the website. When the user logs out his session should get invalidated (by using the method session.invalidate()).
Modify your catalogue and cart JSP pages to achieve the above mentioned functionality using sessions.

	Sub Name : **WEB TECHNOLOGIES LAB** **Branch: B.Tech CSE** **Semester& Section: VI –B Section** Faculty name: B.Shyamala	

2) Course EducationObjective (CEO)

To build a website, you need deep mastery of various technologies like HTMl, javascript, Servlets, JSP and JDBC.

To teach students various technologies like HTML, JavaScript, XML,Java Beans, Servlets, JSP and JDBC. In this lab we teach how to design a basic web site and how to design dynamic web pages using HTML and Java Script languages. We employ basic XML specifications, technologies and applications, including XML Schema, XSLT.Writing Servlets using java programming language and how to deploy Servelts using Apache Tomcat Web server. Developing dynamic contents using JSP. To provide database connectivity using JDBC. The main objective behind introduction of this course is to develop web sites which are secure and dynamic in nature

Student Learning Outcomes:

Upon the successful completion of this lab students will be able to:

1. Design web pages using HTML language.
2. Design dynamic web pages using Java Script language.
3. Design and deploy XML applications.
4. Design and deploy Servlets using Tomcat Server.
5. Design JSP pages.
6. Provide Database Connectivity using JDBC.

	Sub Name : **WEB TECHNOLOGIES LAB** **Branch: B.Tech CSE** **Semester& Section: VI –B Section** Faculty name: B.Shyamala	

Session No	Program to be executed	Date	Remarks
1	Sample programs using basic HTML tags	19-11-2012	Cycle-1
2	Sample programs using basic HTML tags	26-11-2012	
3	Sample programs using CSS and Java Script	03-12-2012	
4	Design a home page, login page, catalogue page	10-12-2012	
5	Design a cart page, registration page	17-12-2012	
6	Perform validation on registration page using JavaScript	24-12-2012	
7	Design a web page using CSS	31-12-2012	
8	Write an XML file which will display the book information	07-01-2013	
9	Create a simple visual bean with a area filled with a color.	14-01-2013	Cycle-2
10	Install TOMCAT web server and APACHE.	21-01-2013	
11	Perform user authentication using servlets	28-01-2013	
12	Install a database(Mysql or Oracle) and Write a java program/servlet/JSP to connect to that database and extract data from the tables and display them.	04-02-2013	
13	Write a JSP to perform user authentication.	11-02-2013	
14	Modify catalogue page (week 2)in such a way that you should connect to the database and extract data from the tables and display them in the catalogue page using JDBC.	18-02-2013	
15	Modify catalogue and cart JSP pages using sessions.	25-02-2013	
16	Internal exam	04-03-2013	
17	Exam	11-03-2013	

	Sub Name : **WEB TECHNOLOGIES LAB** **Branch: B.Tech CSE** **Semester& Section: VI –B Section** Faculty name: B.Shyamala	

Session No	Program to be executed	Date	Remarks
1	Sample programs using basic HTML tags	15.06.2012	Cycle-1
2	Sample programs using CSS and Java Script	22.06.2012	
3	Design a home page, login page, catalogue page	29.06.2012	
4	Design a cart page, registration page	06.07.2012	
5	Perform validation on registration page using JavaScript	13.07.2012	
6	Design a web page using CSS	20.07.2012	
7	Write an XML file which will display the book information	27.07.2012	
8	Create a simple visual bean with a area filled with a color.	03.08.2012	
9	Install TOMCAT web server and APACHE.	17.08.2012	Cycle-2
10	Perform user authentication using servlets	24.08.2012	
11	Install a database(Mysql or Oracle) and Write a java program/servlet/JSP to connect to that database and extract data from the Tables and display them.	31.08.2012	
12	Write a JSP to perform user authentication.	07.09.2012	
13	Modify catalogue page (week 2)in such a way that you should connect to the database and extract data from the tables and display them in the catalogue page using JDBC.	14.09.2012	
14	Modify catalogue and cart JSP pages using sessions.	21.09.2012	
15	exam	28.09.2012	

LESSON PLAN

Sub Name : WEB TECHNOLOGIES

Faculty Name: B.Shyamala **Branch: CSE-A**

Class: III B.Tech **Semester: II**

Date: 14.11.12

No. of Periods	Date	Unit	Topic to be Covered	Teaching Aid
1.	14-11-12	**UNIT-I**	Introduction class	
2.	16-11-12		HTML Common tags- List	**Black Board**
3.	17-11-12		Tables, images, links, example	**Black Board**
4.	19-11-12		Frames; HTML programs	**Black Board**
5.	20-11-12		Cascading Style sheets	**Black Board**
6.	21-11-12		Types of style sheets	**Black Board**
7.	23-11-12		Introduction to Java Scripts	**Black Board**
8.	24-11-12		Basic objects, functions	**Black Board**
9.	26-11-12		Arrays, Events	**Black Board**
10.	27-11-12		Recursion in JavaScript	**Black Board**
11.	28-11-12		Differences between recursion and iteration	**Black Board**
12.	30-11-12		JavaScript example programs	**Black Board**
13.	01-12-12		Objects in Java Script	**Black Board**
14.	03-12-12		Dynamic HTML with Java Script	**Black Board**
15.	04-12-12		Event Handling, filters and transitions	**Black Board**
16.	05-12-12	**UNIT-II**	**XML**: Introduction to XML	**Black Board**
17.	07-12-12		Differences between XML and HTML	**Black Board**
18.	10-12-12		XML features, elements and attributes	**Black Board**
19.	11-12-12		Document type definition	**Black Board**
20.	12-12-12		XML Schemas	**Black Board**
21.	14-12-12		Document Object model	**Black Board**
22.	15-12-12		Presenting XML	**Black Board**
23.	17-12-12		Using XML Processors: DOM and SAX	**Black Board**
24.	18-12-12		**Java Beans**: Introduction to Java Beans	**Black Board**
25.	19-12-12		Advantages of Java Beans,	**Black Board**
26.	21-12-12		BDK, BDK introspection	**Black Board**
27.	22-12-12		Using the bean info interface	**Black Board**
28.	24-12-12		Constrained properties	**Black Board**
29.	26-12-12		Customizers	**Black Board**
30.	28-12-12		Persistence	**Black Board**
31.	29-12-12		Java Beans API	**Black Board**
32.	31-12-12		Introduction to EJB's	**Black Board**
33.	01-01-13	**UNIT-III**	**Servlets:** Introduction to Servlet	**Black Board**
34.	02-01-13		Servlets	**Black Board**
35.	04-01-13		Lifecycle of a Servlet	**Black Board**
36.	05-01-13		The Servlet API	**Black Board**
37.	21-01-13		The javax.servlet Package	**Black Board**
38.	22-01-13		Servlet parameters	**Black Board**
39.	23-01-13		Initialization parameters	**Black Board**
40.	25-01-13		The javax.servlet HTTP package	**Black Board**
41.	26-01-13		Http Request & Responses	**Black Board**

42.	28-01-13		Cookies- Session Tracking	**Black Board**
43.	29-01-13		Security Issues	**Black Board**
44.	30-01-13	**UNIT-IV**	Introduction to JSP	**Black Board**
45.	01-02-13		Problems with servlets	**Black Board**
46.	02-02-13		The anatomy of JSP page	**Black Board**
47.	04-02-13		JSP application design with MVC	**Black Board**
48.	05-02-13		Components of JSP	**Black Board**
49.	06-02-13		Implicit objects	**Black Board**
50.	08-02-13		Conditional Processing	**Black Board**
51.	11-02-13		Conditional Processing(cont.)	**Black Board**
52.	12-02-13		Displaying Values Using an Expression to Set an Attribute	**Black Board**
53.	13-02-13		Declaring Variables and Methods	**Black Board**
54.	15-02-13		Directives (page, include taglib directives)	**Black Board**
55.	16-02-13		Error Handling	**Black Board**
56.	18-02-13		Debugging	**Black Board**
57.	19-02-13	**UNIT-V**	Sharing Data between JSP	**Black Board**
58.	20-02-13		Introduction to Database Access	**Black Board**
59.	22-02-13		Database Programming using JDBC	**Black Board**
60.	23-02-13		Registering database aas an ODBC data source	**Black Board**
61.	25-02-13		Javax.sql.* package	**Black Board**
62.	26-02-13		Accessing a Database from a servlet	**Black Board**
63.	27-02-13		Accessing a Database from a JSP Page	**Black Board**
64.	01-03-13		Application – Specific Database Actions	**Black Board**
65.	02-03-13		Deploying JAVA Beans in a JSP Page	**Black Board**
66.	04-03-13		Struts Framework: Introduction to Struts	**Black Board**
67.	05-03-13		Overview of MVC Design Pattern	**Black Board**
68.	06-03-13		Struts main Components	**Black Board**
69.	08-03-13		Controller components	**Black Board**
70.	11-03-13		Action Servlet, Request Processor	**Black Board**
71.	12-03-13		Action Mapping	**Black Board**
72.	13-03-13		Action Form Beans	**Black Board**
73.	15-03-13		Struts Configuration files	**Black Board**
74.	16-03-13	Content beyond the syllabus	An introduction to PHP	
75.	18-03-13	Content beyond the syllabus	Installation of MYSQL	
76.	19-03-13	Content beyond the syllabus	CGI Scripting	
77.	20-03-13	Content beyond the syllabus	Introduction to Perl	
78.	22-03-13	Content beyond the syllabus	Protocols: HTTP, TCP/TP	

TEXT BOOKS:

1. Web Programming, building internet applications, Chris Bates 2nd edition, WILEY Dreamtech.
2. The complete Reference Java 2 Fifth Edition by Patrick Naughton and Herbert Schildt. TMH
3. Java Server Pages –Hans Bergsten, SPD O'Reilly

REFERENCE BOOKS:

1. Programming world wide web-Sebesta, Pearson
2. Core SERVLETS ANDJAVASERVER PAGES VOLUME 1: CORE TECHNOLOGIES By Marty Hall and Larry Brown Pearson
3. Internet and World Wide Web – How to program by Dietel and Nieto PHI/Pearson Education Asia.
4. Jakarta Struts Cookbook , Bill Siggelkow, S P D O'Reilly
5. Programming world wide web-Sebesta,Pearson
6. Java Server Pages, Pekowsky, Pearson.

	Prepared by	**Approved by**
Signature		
Name	**Mrs B.Shyamala**	**HOD/CSE**
Designation	**Asst.Professor/CSE**	**Professor**
Date	**14.11.2012**	**20.11.2012**

LESSON PLAN

Sub Name : WEB TECHNOLOGIES

Faculty Name: B.Shyamala **Branch: CSE-B**

Class: III B.Tech **Semester: II**

Date: 14.11.12

No. of Periods	Date	Unit	Topic to be Covered	Teaching Aid
1.	14-11-12	**UNIT-I**	Introduction class	
2.	15-11-12		HTML Common tags- List	**Black Board**
3.	17-11-12		Tables, images, links, example	**Black Board**
4.	19-11-12		Frames; HTML programs	**Black Board**
5.	20-11-12		Cascading Style sheets	**Black Board**
6.	21-11-12		Types of style sheets	**Black Board**
7.	22-11-12		Introduction to Java Scripts	**Black Board**
8.	24-11-12		Basic objects, functions	**Black Board**
9.	26-11-12		Arrays, Events	**Black Board**
10.	27-11-12		Recursion in JavaScript	**Black Board**
11.	28-11-12		Differences between recursion and iteration	
12.	29-11-12		JavaScript example programs	
13.	01-12-12		Objects in Java Script	**Black Board**
14.	03-12-12		Dynamic HTML with Java Script	**Black Board**
15.	04-12-12		Event Handling, filters and transitions	**Black Board**
16.	05-12-12	**UNIT-II**	**XML**: Introduction to XML	**Black Board**
17.	06-12-12		Differences between XML and HTML	**Black Board**
18.	10-12-12		XML features, elements and attributes	**Black Board**
19.	11-12-12		Document type definition	**Black Board**
20.	12-12-12		XML Schemas	**Black Board**
21.	13-12-12		Document Object model	**Black Board**
22.	15-12-12		Presenting XML	**Black Board**
23.	17-12-12		Using XML Processors: DOM and SAX	**Black Board**
24.	18-12-12		**Java Beans**: Introduction to Java Beans	**Black Board**
25.	19-12-12		Advantages of Java Beans,	**Black Board**
26.	20-12-12		BDK, BDK introspection	**Black Board**
27.	22-12-12		Using the bean info interface	**Black Board**
28.	24-12-12		Constrained properties	**Black Board**
29.	26-12-12		Customizers	**Black Board**
30.	27-12-12		Persistence	**Black Board**
31.	29-12-12		Java Beans API	**Black Board**
32.	31-12-12	**UNIT-III**	Introduction to EJB's	**Black Board**
33.	01-01-13		**Servlets:** Introduction to Servlet	**Black Board**
34.	02-01-13		Servlets	**Black Board**
35.	03-01-13		Lifecycle of a Servlet	**Black Board**
36.	05-01-13		The Servlet API	**Black Board**
37.	21-01-13		The javax.servlet Package	**Black Board**
38.	22-01-13		Servlet parameters	**Black Board**
39.	23-01-13		Initialization parameters	**Black Board**
40.	24-01-13		The javax.servlet HTTP package	**Black Board**
41.	26-01-13		Http Request & Responses	**Black Board**

42.	28-01-13		Cookies- Session Tracking	**Black Board**
43.	29-01-13		Security Issues	**Black Board**
44.	30-01-13	**UNIT-IV**	Introduction to JSP	**Black Board**
45.	31-01-13		Problems with servlets	**Black Board**
46.	02-02-13		The anatomy of JSP page	**Black Board**
47.	04-02-13		JSP application design with MVC	**Black Board**
48.	05-02-13		Components of JSP	**Black Board**
49.	06-02-13		Implicit objects	**Black Board**
50.	07-02-13		Conditional Processing	
51.	11-02-13		Conditional Processing(cont.)	**Black Board**
52.	12-02-13		Displaying Values Using an Expression to Set an Attribute	**Black Board**
53.	13-02-13		Declaring Variables and Methods	**Black Board**
54.	14-02-13		Directives (page, include taglib directives)	**Black Board**
55.	16-02-13		Error Handling	**Black Board**
56.	18-02-13		Debugging	**Black Board**
57.	19-02-13	**UNIT-V**	Sharing Data between JSP	**Black Board**
58.	20-02-13		Introduction to Database Access	**Black Board**
59.	21-02-13		Database Programming using JDBC	**Black Board**
60.	23-02-13		Registering database aas an ODBC data source	**Black Board**
61.	25-02-13		Javax.sql.* package	**Black Board**
62.	26-02-13		Accessing a Database from a servlet	**Black Board**
63.	27-02-13		Accessing a Database from a JSP Page	**Black Board**
64.	28-02-13		Application – Specific Database Actions	**Black Board**
65.	02-03-13		Deploying JAVA Beans in a JSP Page	**Black Board**
66.	04-03-13		Struts Framework: Introduction to Struts	**Black Board**
67.	05-03-13		Overview of MVC Design Pattern	**Black Board**
68.	06-03-13		Struts main Components	**Black Board**
69.	07-03-13		Controller components	**Black Board**
70.	11-03-13		Action Servlet, Request Processor	**Black Board**
71.	12-03-13		Action Mapping	**Black Board**
72.	13-03-13		Action Form Beans	**Black Board**
73.	14-03-13		Struts Configuration files	**Black Board**
74.	16-03-13		Struts Configuration files(cont.)	**Black Board**
75.	18-03-13	Content beyond the syllabus	An introduction to PHP	
76.	19-03-13	Content beyond the syllabus	Installation of MYSQL	
77.	20-03-13	Content beyond the syllabus	CGI Scripting	
78.	21-03-13	Content beyond the syllabus	Introduction to Perl	
79.	23-03-12	Content beyond the syllabus	Protocols: HTTP, TCP/TP	

TEXT BOOKS:

1. Web Programming, building internet applications, Chris Bates 2nd edition, WILEY Dreamtech.
2. The complete Reference Java 2 Fifth Edition by Patrick Naughton and Herbert Schildt. TMH
3. Java Server Pages –Hans Bergsten, SPD O'Reilly

REFERENCE BOOKS:

1. Programming world wide web-Sebesta, Pearson
2. Core SERVLETS ANDJAVASERVER PAGES VOLUME 1: CORE TECHNOLOGIES By Marty Hall and Larry Brown Pearson
3. Internet and World Wide Web – How to program by Dietel and Nieto PHI/Pearson Education Asia.
4. Jakarta Struts Cookbook , Bill Siggelkow, S P D O'Reilly
5. Programming world wide web-Sebesta,Pearson
6. Java Server Pages, Pekowsky, Pearson.

	Prepared by	**Approved by**
Signature		
Name	**Mrs B.Shyamala**	**HOD/CSE**
Designation	**Asst.Professor/CSE**	**Professor**
Date	**14.11.2012**	**20.11.2012**