V



Course Name: DESIGN AND ANALYSIS OF ALGORITHMS

SEM: Programme: B.Tech Department: IT

Course Educational objectives:

> Students will have an appreciation of the history and evolution of computer graphics, both hardware and software. Assessed by written homework assignment.

- > Students will have an understanding of 2D graphics and algorithms which includes line drawing, polygon filling, clipping, and transformations.
- > Students will understand the concepts of and techniques used in 3D computer graphics, including viewing transformations, hierarchical modelling, colour, lighting and texture mapping.
- > Students will be introduced to algorithms and techniques fundamental to 3D computer graphics and will understand the relationship between the 2D and 3D versions of such algorithms.

Course Outcomes:

This course will enable you to:

- Able to understand the graphics applications and various interactive input and output devices.
- Able to understand and draw line, circle and ellipse using algorithms and functions to implement graphic primitives
- ➤ Able to know different geometrical transformations in 2D
- ➤ Able to learn regarding 2D Coordinate transformation, viewing functions and clipping algorithms
- ➤ Able to understand the 3D display methods, geometrical transformations and coordinate transformations.

Pre requisite: Knowledge of Coordinate system in Mathematics.

S.N0	Tentative Date	Topics to be covered	Actual Date	Num. of classes	Content Delivery Methods
		UNIT-1		Classes	Wittious
1	22-6-15	Introduction	22	1	DM1
2	23-6-15	Algorithm	23	1	DM1/DM6
3	24-6-15	Design & analysis of Algorithms	24	1	DM1/DM6
4	25-6-15	Space Complexity	25	1	DM1/ DM6
5	27-6-15	Time complexity	26	1	DM1/ DM6
6	29-6-15	Asymptotic Notations	27	1	DM1/ DM6
7	30-6-15	Tutorial-1	1	1	DM2
8	1-7-15	Divide & Conquer General method	29	1	DM1/DM6
9	2-7-15	Binary Search	30	1	DM1/DM6
10	4-7-15	Finding Maximun and Minimum	2	1	DM1/DM6
11	6-7-15	Example	4	1	DM1
12	7-7-15	Merge sort	6	1	DM2
13	8-7-15	Example	8	1	DM1
14	9-7-15	Tutorial-2	9	1	DM2
		UNIT-II			
15	11-7-15	Greedy Method General method	11	1	DM1/ DM6
16	13-7-15	Knapsack problem	13	1	DM1/DM6
17	14-7-15	Example	13		
18	15-7-15	Tree Vertex Splitting	15	1	DM1/ DM6
19	16-7-15	Example	16		
20	20-7-15	Job –Sequencing with deadlines	20	1	DM1/ DM6
21	21-7-15	Example	20	1	DM1
22	22-7-15	Tutorial-3	21	1	DM2
23	23-7-15	Minimum cost spanning tree- prims algorithm	25	1	DM1/ DM6
24	25-7-15	Krushkals algorithm	27	1	DM1
25	27-7-15	Optimal Storage on Tapes	27	1	DM1/ DM6
26	28-7-15	Example	29		
27	29-7-15	Optimal Merge Pattern	30	1	DM1
28	30-7-15	Example	1		
29	1-8-15	Single source Shortest path	3	1	DM1
30	3-8-15	Example	4	1	DM1
		Tutorial-4	5	1	DM2
	1	UNIT – III	T		
		Dynamic Programming-General method		1	DM1/ DM6
		Multistage Graph		1	DM1/ DM6
		All pairs Shortest path		1	DM1/ DM6
31	4-8-15	Example		1	DM1
32	5-8-15	Single source Shortest path		1	DM1/ DM6
33	6-8-15	Example		1	DM1

34	8-8-15	Optimal Binary Search Trees	1	DM1
35	18-8-15	Tutorial-5	1	DM2
36	19-8-15	String Editing	1	DM1
37	20-8-15	0/1 Knapsack	1	DM1
38	22-8-15	Reliabilty Design	1	DM1
39	24-8-15	Travelling Salesman Problem	1	DM1/ DM6
40	25-8-15	Example	1	DM1
41	26-8-15	Flow shop Scheduling	1	DM1/ DM6
42	27-8-15	Example	1	DM1
43	29-8-15	Tutorial-6	1	DM2
		UNIT – IV		•
44	31-8-15	Techniques for Binary trees	1	DM1/ DM6
45	1-9-15	Techniques for Graphs	1	DM1/ DM6
46	2-9-15	Connected components	1	DM1/ DM6
47	3-9-15	Spanning Trees	1	DM1/ DM6
45	7-9-15	Bi-Connected Components	1	DM1
46	8-9-15	DFS	1	DM1
47	9-9-15	Tutorial-7	1	DM2
48	10-9-15	Back tracking –General method	1	DM1
49	12-9-15	The 8-Queens Problem	1	DM1
50	14-9-15	Sum of Subsets	1	DM1/DM6
48	15-9-15	Graph Coloring	1	DM1
49	16-9-15	Hamiltonian cycle	1	DM1
50	17-9-15	Knapsack problem	1	DM1
51	19-9-15	Example	1	DM1
52	21-9-15	Tutorial-8	1	DM2
		UNIT – V		•
53	22-9-15	Branch and Bound –method	1	DM1
54	23-9-15	0/1 Knapsack Problem	1	DM1/DM6
55	26-9-15	Travelling Sales person	1	DM1/DM6
56	28-9-15	Example	1	DM1
57	29-9-15	Efficiency Considerations	1	DM1/DM6
58	30-9-15	Tutorial-9	1	DM2
59	1-10-15	NP hard and NP complete- Basic	1	DM1
		concepts		
60	3-10-15	Cook's Theorem	1	DM1
61	5-10-15	NP-hard Graph Problems	1	DM1
62	6-10-15	NP –hard Scheduling Problem	1	DM1
63	7-10-15	Example	1	DM1
64	8-10-15	Some Simplified NP –hard	1	DM1/ DM6
		Problems		
65	10-10-15	Examples	1	DM1
66	12-10-15	Tutorial-10	1	DM2
67	13-10-15	Revision	1	DM1/ DM6
68	14-10-15	Revision	1	DM1/ DM6
69	15-10-15	Revision	1	DM1/ DM6
70	17-10-15	Revision	1	DM1/ DM6
TOTAL				
Total nu	umber of classes	required to complete the syllabus	66	

Total number of classes available as per Schedule	70	

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
	Mr. M. Mahesh Kumar	T.V. NAGARAJU	Dr. N. Ravi Sankar



Course Name: T323 Theory of Computations

Programme: B.Tech

SEM: V

Department:IT

S No.	Tentative Date	Topics to be covered	Actual Date	Num. of classes	Content Delivery Methods
	ī	U NIT-I :Fundamentals,Introduction to F	inite Auto	mata	
1.	22/6/2015	Fundamentals:Strings,Alphabet		1	DM1
2.	23/6/2015	Language, Operations, Finite state Machine		1	DM1
3.	25/6/2015	Definitions,Finite Automata model		1	DM1
4.	26/6/2015	DFA and its representation		1	DM1
5.	27/6/2015	Acceptability of strings by DFA		1	DM1
6.	29/6/2015	Construction of DFA		1	DM1
7.	30/6/2015	Construction of DFA		1	DM1
8.	2/7/2015	Construction of DFA DFA vs NFA		1	DM1
9.	3/7/2015	Construction of NFA		1	DM1
10	4/7/2015	Tutorial-1		1	DM2
11	6/7/2015	NFA to DFA Conversion		1	DM1
12	7/7/2015	NFA to DFA Conversion,NFA with ^ε moves		1	DM1
13	9/7/2015	NFA with $^{\varepsilon}$ moves to without $^{\varepsilon}$ moves		1	DM1
14	10/7/2015	Minimisation of FA		1	DM1
15	13/7/2015	Equivalence of two FA's		1	DM1
16	14/7/2015	FA with output		1	DM1
17	16/7/2015	Moore Machine		1	DM1

18	17/7/2015	Mealy Machine	1	DM1
19	20/7/2015	Conversion of moore to mealy M/C	1	DM1
20	21/7/2015	Conversion of Mealy to Moore M/C	1	DM1
21	23/7/2015	Tutorial-2	1	DM2
22	24/7/2015	Conversion of Mealy to Moore M/C	1	DM1
•		UNIT-II Regular Language	s	
23	25/7/2015	Regular languages,Regular sets,R.E	1	DM1
24	27/7/2015	R.E	1	DM1
25	28/7/2015	Writing the R.E	1	DM1
26	30/7/2015	Identity Rules	1	DM1
27	31/7/2015	Conversion of R.E to FA	1	DM1
28	1/8/2015	Conversion of FA to R.E	1	DM1
29	3/8/2015	Pumping lemma of Regular sets	1	DM1
30	4/8/2015	Pumping lemma of Regular sets	1	DM1
31	6/8/2015	Closure Properties of Regular sets	1	DM1
32	7/8/2015	Tutorial-3	1	DM2
33	10/8/2015 to 14/8/2015	I – MID Examination		
		UNIT-III Grammar Formalisa	tion	
34	17/8/2015	Regular Grammars-right linear and left linear grammars	1	DM1
35	18/8/2015	Regular Grammars-right linear and left linear grammars	1	DM1
36	20/8/2015	Equivalence between regular linear grammar and FA	1	DM1
37	21/8/2015	Equivalence between regular linear grammar and FA	1	DM1
38	22/8/2015	Inter Conversion	1	DM1
39	24/8/2015	Inter Conversion	1	DM1

40	25/8/2015	Context free grammar	1	DM1
41	26/8/2015	Context free grammar	1	DM1
42	27/8/2015	Derivation trees	1	DM1
43	28/8/2015	Tutorial-IV	1	DM4
44	31/8/2015	Derivation trees	1	DM1
45	1/9/2015	Sentential forms		DM2
46	3/9/2015	Rightmost and Leftmost derivation of Strings	1	DM1
47	4/9/2015	CFG:Ambiquity in CFG	1	DM1
48	7/9/2015	Minimisation of CFG	1	DM1
49	8/9/2015	Tutorial-V	1	DM2
50	10/9/2015	Chomsky normal form	1	DM1
51	11/9/2015	Pumping Lemma for CFL	1	DM3
		UNIT-IV:Push Down Automata		
52	14/9/2015	Push Down Automata, definition	1	DM1
53	15/9/2015	Model,acceptance of CFL	1	DM1
54	18/9/2015	Acceptance by final state	1	DM1
55	19/9/2015	Acceptance by empty state and its equivalence	1	DM2
56	21/9/2015	Equivalence of CFL and PDA		DM1
57	22/9/2015	Equivalence of CFL and PDA	1	DM1
58	24/9/2015	Inter Conversion	1	DM1
59	26/9/2015	Inter Conversion	1	DM1
60	28/9/2015	Chomsky hierarchy of languages	1	DM1
61	29/9/2015	Tutorial-VI	1	DM2
62	1/10/2015	Context sensitive languages	1	DM1
63	3/10/2015	LR(0) grammar	1	DM1
64	5/10/2015	Decidability problems	1	DM1
				

65	6/10/2015	Decidability problems		1	DM1
66	8/10/2015	Tutorial-VII		1	DM2
		UNIT-V: Turing Machine		l	
67	9/10/2015	Definition and Introduction		1	DM1
68	12/10/2015	Computable functions		1	DM1
69	13/10/2015	Recursively enumerable languages		1	DM1
70	15/10/2015	Tutorial-VIII		1	DM2
71	16/10/2015	Design of TM		1	
72	17/10/2015	Tutorial-IX		1	DM2
73	26/10/2015 to 31/10/2015	II-MID EXAMS			
			Total	72	
	Total	number of classes required to complete the	syllabus	L	75
		Total number of classes available as per S	Schedule		70

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



Course Code& Course Name: T267 –OPERATING SYSTEMS Programme: B.Tech **SEM:** V **Department:** IT

S No.	Tentative Date	Topics to be covered	Actual Date	Content Delivery Methods
		UNIT-I		<u> </u>
1.	22/06/2015	Introduction to OS		DM1
2.	23/06/2015	Lab Program Explanation – RR algorithm		DM1
3.	24/06/2015	Computer System Organization		DM1
4.	25/06/2015	Computer System Architecture		DM1
5.	26/06/2015	O.S. Structure		DM1
6.	27/06/2015	O.S. Operations, Process Management		DM1
7.	29/06/2015	Memory Management , Storage Management		DM1
8.	30/06/2015	Caching, I/O Systems, Lab Program Explanation – FCFS		DM1
9.	01/07/2015	Protection & Security, Distributed Systems, Special Purpose Systems		DM1
10.	02/07/2015	Operating System Services		DM1
11.	03/07/2015	System Calls		DM1
12.	04/07/2015	Types of System Calls		DM1
13.	06/07/2015	Tutorial - I		DM2
14.	07/07/2015	Lab Explanation – Priority Scheduling		DM1
15.	08/07/2015	Types of System Calls		DM1, DM8
16.	09/07/2015	System Programs, Design and Implementation of OS		DM1
17.	10/07/2015	OS Structure		DM1
18.	13/07/2015	Virtual machines:- Definition, History, Benefits		DM1

19.	14/07/2015	Virtual Machines :- Simulation, para- Virtualization, Lab Program Explanation – Seq. File Allocation	DM1, DM8
20.	15/07/2015	OS Generation , System Boot	DM1, DM8
21.	16/07/2015	Lab Explanation – Linked File Allocation	DM1, DM8
	<u> </u>	UNIT - II	
22.	17/07/2015	Process Concept, Process Scheduling	DM1, DM8
23.	20/07/2015	Tutorial-2	DM1, DM8
24.	21/07/2015	Lab Program Explanation – Indexed File Allocation	DM1, DM8
25.	22/07/2015	Revision	DM2
26.	23/07/2015	Lab Program explanation, Doubts clarification	DM5
27.	24/07/2015	Lab Program explanation, Doubts clarification	DM5
28.	25/07/2015	Operations on processes	DM1, DM8
29.	27/07/2015	Inter Process Communication(IPC)	DM1, DM8
30.	29/07/2015	Example IPC Systems	DM1, DM8
31.	30/07/2015	Comm. In Client-Server Systems – Sockets, RPC	DM1,DM8
32.	31/07/2015	Comm. In Client-Server Systems – PIPES	DM1,DM8
33.	01/08/2015	MultiThreading – Overview, Threading Models	DM1, DM8
34.	03/08/2015	MultiThreading - Libraries, Issues.	DM1, DM8
35.	04/08/2015	MultiThreading - Issues	DM1, DM8
36.	05/08/2015	Process Scheduling – Basic Concepts, Criteria	DM1, DM8
37.	06/08/2015	Process Scheduling algo.— FCFS, SJF	DM1, DM8

38.	07/08/2015	Process Scheduling algo. – Priority, RR, Multilevel Queue, Multilevel Feedback Queue, Multiple Processor	DM2
39.	18/08/2015	Scheduling Lab Program Explanation	DM1, DM8
		UNIT - III	I
40.	19/08/2015	Synchronization - The Critical-Section	DM1, DM8
		Problem	
41.	20/08/2015	Peterson's Solution	DM1, DM8
42.	21/08/2015	Synchronization Hardware	DM2
43.	22/08/2015	Semaphores	DM1, DM8
44.	24/08/2015	Classic Problems of Synchronization	DM1, DM8
45.	25/08/2015	Lab Program Explanation	DM1, DM8
46.	26/08/2015	Monitors	DM1, DM8
47.	27/08/2015	Monitors	DM1, DM8
48.	28/08/2015	Synchronization Examples	DM1, DM8
49.	29/08/2015	Synchronization Examples and Atomic Transactions	DM1, DM8
50.	31/08/2015	Atomic Transactions	DM2
51.	01/09/2015	Lab Program Explanation	DM1, DM8
52.	02/09/2015	Tutorial - 3	DM1, DM8
53.	03/09/2015	Deadlocks - System Model, Deadlock Characterization	DM1, DM8
54.	04/09/2015	Methods for handling Deadlocks	DM1, DM8
55.	07/09/2015	Deadlock Prevention	DM1, DM8
56.	08/09/2015	Lab Program Explanation	DM1, DM8
57.	09/09/2015	Deadlock Avoidance	DM1, DM8
58.	10/09/2015	Deadlock Detection	DM1, DM8

59. 11/09/	2015 Recovery from Deadlock	DM2
60. 14/09/	Tutorial -4	DM1, DM8
61. 15/09/	2015 Lab Program Explanation	DM1, DM8
	UNIT – IV	
62. 16/09/	2015 Memory Management Strateg Swapping, Contiguous Memory allocation	, I I I I I I I I I I I I I I I I I I I
63.	Paging, Structure of Page Table	DM1, DM8
64.	Segmentation	DM1, DM8
65. 21/09/	72015 Tutorial-5	DM1, DM8
66. 22/09/	2015 Lab Program Explanation	DM1, DM8
67. 23/09/	2015 Demand Paging	DM1, DM8
68.	Page replacement	DM2
69.	2015 Allocation of Frames	DM1, DM8
70.	72015 Thrashing	DM1, DM8
71.	2015 Memory-Mapped Files	DM1, DM8
72. 30/09/	2015 Allocating Kernel Memory	DM1, DM8
, 2.	UNIT-V	
01/10/	72015 File System - The Concept of a	File, DM1, DM8
73	Access Methods	
03/10/	2015 Directory Structure	DM1, DM8
05/10/	72015 File System Mounting	DM1, DM8
06/10/	File sharing, Protection	DM1, DM8
07/10/	72015 Tutorial-6	
08/10/		em DM1, DM8
78.	Imponientation	
79.	2015 Directory Implementation	DM1, DM8
12/10/	2015 Allocation Methods	DM1, DM8
81.	72015 Free space Management	DM1, DM8
73. 03/10/ 74. 05/10/ 75. 06/10/ 76. 07/10/ 77. 08/10/ 78. 09/10/ 79. 12/10/ 80. 13/10/	Access Methods 2015 Directory Structure 2015 File System Mounting 2015 File sharing, Protection 2015 Tutorial-6 2015 File System Structure, File System Implementation 2015 Directory Implementation 2015 Allocation Methods	DM1, DM8 DM1, DM8 DM1, DM8 DM1, DM8 DM1, DM8 DM1, DM8

82.	14/10/2015	Efficiency and Performance	DM1, DM8
83.	15/10/2015	Recovery	DM1, DM8
84.	16/10/2015	Tutorial-7	DM1, DM8
85.	17/10/2015	Revision	DM1, DM8

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: Group Discussion, DM7: Group Assignment/ Project, DM8: Presentations/PPT, DM9: Asynchronous Discussion.

Signature			
	Name of the Faculty	Name of Course Co-ordinator	HOD
	Michael Sadgun Rao		Dr. D. Naga Raju
	Kona		

Course Code& C

LESSON PLAN

Course Code& Course Name: T308 –SOFTWARE ENGINEERING SEM: V

Programme: B.Tech Department: IT

Course : III/IV B TECH(V SEM)

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)

Department of Information Technology LESSON PLAN

S.no		DATE	TOPIC TO BE COVERED	ACTUAL DATE	CONTENT DELIVERY METHODS
	I	-1	UNIT-I		
1		22/06/2015	Introduction to s/w engineering		DM1,DM8
2	-	24/06/2015	The evolving role of s/w		DM1
3	WEEK1	25/06/2015	Definition of s/w, changing the nature of s/w		DM1
4	>	26/06/2015	changing the nature of s/w		DM1
5	_	27/06/2015	Legacy s/w, Software myths		DM1
6		29/06/2015	Software myths		DM1
7	2	01/07/2015	Introduction to s/w process and process layered technology		DM1
8	WEEK2	02/07/2015	Tutorial-l		DM2
9	>	03/07/2015	Process patterns, different types		DM1,DM8
10	-	04/07/2015	Process framework & Its phases		DM1,DM8
11		06/07/2015	A Process framework & Its phases		DM1
12	-	08/07/2015	Umbrella activities of process framework		DM1
13	WEEK3	09/07/2015	Umbrella activities of process framework		DM8
14	>	10/07/2015	S/W process assessment & its principles		DM1
15	-	11/07/2015	CMMI, Process patterns		DM8
16		13/07/2015	Tutorial-II		DM2
17	4 4	15/07/2015	Process assessment		DM1
18	WEEK4	16/07/2015	Personal and team process models		DM1
19	-	17/07/2015	Process technology		DM1,DM8

20		20/07/2015	Product process	DM2
21			UNIT-II	I
22	_	22/07/2015	Process Models Introduction	DM1,DM8
23	_	23/07/2015	Prospective models	DM1,DM8
24		24/07/2015	Water fall model its merits and demerits	DM1,DM8
		25/07/2015	V-shaped Model and its merits and demerits	DM1,DM8
25	WEEKS	25/07/2015	RAD Model ,component based model	DM1
26		27/07/2015	Tutorial-3	DM2
27	9	29/07/2015	Concurrent development model	DM1,DM8
28		31/07/2015	Incremental model its merits and demerits	DM1,DM8
29	WEEK	01/07/2015	Prototype model its merits demerits	DM8
30		03/08/2015	Spiral model its merits and demerits	DM8
31		05/08/2015	Functional requirements and Non functional requirements	DM8
32		06/08/2015	Functional requirements and Non functional requirements	DM1
33	EK7	07/08/2015	Tutorial-4	DM2
34	WEEK	08/08/2015	Review of Unit-2	DM1,DM8
35			MID-I(10/08/2015 TO 17/08/2015)	I
			UNIT-III	
36		19/08/2015	Introduction to requirements engineering	DM1,DM8
37		20/08/2015	RE tasks	DM1,DM8
38	8	21/08/2015	Initiating the RE process	DM1,DM8
39	WEEK8	22/08/2015	Eliciting requirements	DM1

	24/08/2015	Developing Use cases	DM8
	26/08/2015	Building the analysis models	DM1
	27/08/2015	Negotiating and validating requirements	DM1
	28/08/2015	Tutorial-5	DM2
/ЕЕК9	29/08/2015	Introduction to requirement analysis	DM8
>	31/08/2015		DM8
			DM1,DM8
10	03/09/2015	Data modeling concepts, OOA, scenario based modeling	DM1,DM8
WEEK	04/09/2015	Flow based Modeling	DM1,DM8
	07/09/2015	Class based modeling, Creating a behavior	DM8
-	09/09/2015	Review of Unit-3	DM8
(11		UNIT-IV	
WEEI	10/09/2015	Introduction to Design Engineering	DM1
	11/09/2015	Design process and design concepts	DM1,DM8
	12/09/2015	Design models	DM1,DM8
	14/09/2015	Design Models	DM1,DM8
	16/09/2015	Pattern based software design	DM1
EK12	17/09/2015	Creating an architectural design	DM1
₹	18/09/2015	Software architecture	DM1,DM8
	19/09/2015	Data design	DM1,DM8
	21/09/2015	Architectural styles and patterns	DM1,DM8
13	23/09/2015	Architectural design	DM1,DM8
WEEK	25/10/2015	Tutorial-6	DM2
_	26/10/2015	Review of Unit-4	DM1,DM8
	WEEK13 WEEK12 WEEK9 WEEK9	26/08/2015 27/08/2015 28/08/2015 28/08/2015 29/08/2015 31/08/2015 02/09/2015 03/09/2015 04/09/2015 09/09/2015 10/09/2015 11/09/2015 12/09/2015 16/09/2015 18/09/2015 18/09/2015 19/09/2015 21/09/2015 22/09/2015	26/08/2015 Building the analysis models

			UNIT-V	
63		28/10/2015	Introduction to testing strategies	DM1
64	<14	30/10/2015	Strategic issues for software testing	DM1
65	WEEK14	01/10/2015	Test strategies for conventional software	DM1,DM8
66		03/10/2015	Object oriented software	DM1,DM8
67		05/10/2015	Validation testing	DM1,DM8
68		07/10/2015	System testing, Debugging	DM1,DM8
69	_	08/10/2015	Tutorial-7	DM2
70	K15	09/10/2015	Software testing fundamentals	DM1
71	WEEK15	10/10/2015	White box testing	DM1
72		12/10/2015	Black box testing	DM8
73		14/10/2015	Basis path testing	DM8
74		15/10/2015	OO Testing Methods	DM8
75	K16	16/10/2015	OO Testing Methods	DM8
76	WEEK16	17/10/2015	Review of Unit-5	DM8

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: Group Discussion, DM7: Group Assignment/ Project, DM8: Presentations/PPT, DM9:Asynchronous Discussion..

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

T254 - MICROPROCESSORS AND INTERFACING

Lecture : 4 Periods/week Internal Marks : 25

Tutorial : 1 Period/Week External Marks : 75

Credits : 4 External Examination : 3 Hrs

LESSON PLAN-MICROPROCESSORS AND INTERFACING

S No.	Tentativ e Date	Topics to be covered	Actual Date	Num. of classes	Content Delivery Methods
		UNIT – I			L
1.	24-06-15	Architecture of 8086 Microprocessor		1	DM4
2.	26-06-15	Special functions of General purpose registers		1	DM1,DM2
3.	27-06-15	8086 flag register and function of 8086 Flags		1	DM1
4.	29-06-15	Addressing modes of 8086,		2	DM1, DM4
5.	01-07-15	Instruction set of 8086.		3	DM1
6.	03-07-15	Tutorial-I			DM2
7.	06-07-15	Assembler directives, simple programs, procedures, and macros		2	DM1,DM2
8.	08-07-15	Assembly language programs involving logical, Branch & Call instructions,		3	DM1,DM4
9.		Sorting, evaluation of arithmetic expressions, string manipulation.		2	DM1
	09-07-15				

10.	10-07-15	Tutorial-II		DM2
		UNIT – II		
11.	11-07-15	Pin diagram of 8086	2	DM1
	11 07 13			
12.	15 07 15	Minimum mode and maximum mode of	2	DM1,DM
	15-07-15	operation,		
13.	17-07-15	Tutorial-III		DM2
14.		Timing diagram, Memory interfacing to	3	DM1,DM
	20-07-15	8086 (Static RAM & EPROM)		
15.		Need for DMA. DMA data transfer	3	DM1,DM
	24-07-15	Method,		,
16.	26-07-15	Tutorial-IV		DM2
	20.07-13			
17.		Interfacing with 8237/8257.	2	DM1,DM
	29-07-15			
		UNIT – III		
18.		8255 PPI – various modes of operation	2	DM1,DM
	31-07-15	and interfacing to 8086		
19.	03-08-15	Interfacing Keyboard	2	DM1
20.	04-08-15	Tutorial-V		DM2
21.	05-08-15	Displays	2	DM1,DM
22.	07-08-15	8279	2	DM1
23.	10-08-	I-Mid Examinations		
	2015 to			
	16-08-			
	2015			
24.	18-08-15	Stepper Motor and actuators	2	DM1,DM
25.	19-08-15	Tutorial-VI		DM2
26.		D/A and A/D converter interfacing	2	DM1,DM
	20 00 15			
	20-08-15			
	_	UNIT-IV		

27.		Interrupt structure of 8086.	1	DM1
	22-08-15			
28.	24-08-15	Vector interrupt table. Interrupt service routines	2	DM1
29.	27-08- 2015	Introduction to DOS and BIOS interrupts	2	DM1
30.	29-08-15	8259 PIC Architecture and interfacing cascading of interrupt controller and its importance,	3	DM1
31.	30-08-15	Tutorial-VII		DM2
32.	03-09-15	Serial data transfer schemes. Asynchronous and Synchronous data transfer schemes	2	DM1
33.	07-09-15	8251 USART architecture and interfacing,	2	DM1
34.	09-09-15	TTL to RS 232C and RS232C to TTL conversion	2	DM1
35.	11-09-15	Sample program of serial data transfer,	2	DM1
36.	14-09-15	Introduction to High-speed serial communications standards, USB.	2	DM1
37.	15-09-15	Tutorial-VIII		DM2
		UNIT-V		
38.	16-09-15	Introduction to 80286, Salient features of 80386	2	DM1
39.	18-09-15	Real and Protected mode	5	DM1
40.	26-09-15	Segmentation & Paging, Salient Features of Pentium	3	DM1
41.	1-10-15	Branch Prediction	2	DM1
42.	3-10-15	Tutorial-IX		DM2
43.	5-10-15	8051 Microcontroller Architecture,	2	DM1
44.	07-10-15	Register set of 8051, Modes of timer operation,	2	DM1

	Total num		81	
Tot	al number		69	
		Total	81	
48.	17-10-15	Tutorial-X		DM2
47.	16-10-15	Memory and I/O interfacing of 8051.	2	DM1
46.	15-10-15	Interrupt structure of 8051	1	DM1
45.	10-10-15	Serial port operation	3	DM1

NOTE: DELIVERY METHODS: **DM1**: Lecture interspersed with discussions/BB, **DM2**: Tutorial, **DM3**: Assignment/Test, **DM4**: Presentations/PPT

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

Signature			
	Course Co-coordinator	Instructor	HOD



Course Code& Course Name: T862 – OPERATING SYSTEMS LAB
Programme: B.Tech
SEM: V
Department: IT

S No.	Date	Topics to be covered Hrs		Batch	Remarks
1.	23/06/2015	Practice programs on C	3	A,B	
2.	25/06/2015	Simulate Round Robin Scheduling	3	A,B	
3.	30/06/2015	Simulate FCFS	3	А	
4.	02/07/2015	Simulate FCFS	3	В	
5.	07/07/2015	Simulate SJF, Priority	3	Α	
6.	09/07/2015	Simulate SJF, Priority	3	В	
7.	14/07/2015	Simulate Sequential File Allocation	3	Α	
8.	16/07/2015	Simulate Sequential File Allocation	3	В	
9.	21/07/2015	Simulate Linked File Allocation	3	Α	
10.	23/07/2015	Simulate Linked File Allocation	3	В	
11.	28/07/2015	Simulate Indexed File Allocation	3	А	
12.	30/07/2015	Simulate Indexed File Allocation	3	В	
13.	04/08/2015	Simulate MVT and MFT (Batch A)	3	Α	
14.	06/08/2015	Simulate MVT and MFT	3	В	
	I.	MID – I EXAMS 10-08-2015 To 17-08-	2015	I.	
15.	18/08/2015	Simulate File Organization Techniques – Single Level and Two Level	3	А	
16.	20/08/2015	Simulate File Organization Techniques – Single Level and Two Level	3	В	
17.	25/08/2015	Simulate File Organization Techniques- Hierarchical and DAG	3	А	
18.	27/08/2015	Simulate File Organization Techniques- Hierarchical and DAG	3	В	
19.	01/09/2015	Simulate Banker's Algorithm for Dead Lock Avoidance	3	А	
20.	03/09/2015	Simulate Banker's Algorithm for Dead Lock Avoidance	3	В	
21.	08/09/2015	Simulate Banker's Algorithm for Dead Lock Prevention	3	А	
22.	10/09/2015	Simulate Banker's Algorithm for Dead Lock Prevention	3	В	
23.	15/09/2015	Simulate Page Replacement Algorithms	3	А	

24.	22/09/2015	Simulate Page Replacement Algorithms	3	В		
25.	29/09/2015	Simulate Paging Technique of Memory Management	3	А		
26.	01/10/2015	Simulate Paging Technique of Memory Management	3	В		
27.	06/10/2015	Practice Pending Experiments (or) Revision	3	А		
28.	08/10/2015	Practice Pending Experiments (or) Revision	3	В		
29.	13/10/2015	INTERNAL LAB EXAM	3	А		
30.	15/10/2015	INTERNAL LAB EXAM	3	В		
	MID – II EXAMS 26-10-2015 To 31-10-2015					

TEXT BOOK:

1. Silberschatz & Galvin, 'OPERATING SYSTEM CONCEPTS', 7th edition, Wiley.

REFERENCES:

- 1. William Stallings-"OPERATING SYSTEMS"-5th Edition-PHI 2. Charles Crowley, 'OPERATING SYSTEMS: A DESIGN-ORIENTED APPROACH', Tata McGraw Hill Co.,1998 edition
- 3. Andrew S. Tanenbaum, 'MODERN OPERATING SYSTEMS', 2nd edition, 1995, PHI.

Signature			
	Name of the Faculty	Name of Course Co-ordinator	HOD
	Michael Sadgun Rao Kona	Koneru Anu Priya	Dr. D. Naga Raju



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

L.B.REDDY NAGAR, MYLAVARAM-521 230.

AUTONOMOUS & Approved by AICTE, New Delhi
Accredited by NBA of AICTE & Certified by ISO 9001:2008

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

http://www.lbrce.ac.in, ece.lbce@gmail.com Phone: 08659-222933, Fax: 08659-222931

Faculty Name:,K.V.ASHOK,R.HARI KISHAN LAB SCHEDULE Date: 22-06-2015.

Year: B.Tech - V SEM MICROPROCESSORS & INTERFACING IT

S.NO. UNI	UNIT	INIT DESCRIPTION	II Batch(TUE)		I Batch(THU)		Signature
		DESCRIPTION	Planned	Performed	Planned	Performed	
1.		Introduction to 8086 Kits & Debug	23/06/15		25/06/15		
2.		Programs on Data Transfer & Exchange	30/06/15		02/07/15		
3.		Programs on ADD,ADC,SUB	7/7/15		09/07/15		
4.		Programs on MUL & DIV	21/07/15		23/07/15		
5.		Programs on code Conversion	04/08/15		06/08/15		
6.		Programs on Sorting	18/08/15		20/08/15		
7.		Programs on String	25/08/15		27/08/15		
8.		Programs on Subroutines, MASM	01/09/15		03/09/15		
9.		DAC Interfacing- Generation of Waveforms	08/09/15		10/09/15		
10.	Cycle	ADC Interfacing	15/09/15		17/09/15		
11.	Cycle	Stepper Motor Interfacing	22/09/15		24/09/15		
12.	Cycle	Key Board Interfacing	29/09/15		1/10/15		
13.	Cycle	Display Interfacing	06/10/15		08/10/15		
14.	Cycle	8051 Program- Program & IO	13/10/15		13/10/15		
15.	Cycle	INTERNAL EXAM	15/10/15		15/10/15		
		ı		L			1

Signature of the Faculty
HEAD OF THE DEPARTMENT, IT

Faculty Name: K.V.ASHOK, R.HARI KISHAN

Lakireddy Bali Reddy College of Engineering

(Autonomous)

Affiliated to JNTUK, Kakinada & Approved by AICTE,New Delhi NAAC Accredited with "A" grade, Accredited by NBA, New Delhi & Certified by ISO 9001:2008

DEPARTMENT OF INFORMATION TECHNOLOGY

Subject: Design And Analysis Of Algorithms Lab Course: B.TECH V SEM

Lab Code: P818 Credits: 2

Faculty: Mahesh Kumar.M, K.Purushottam Academic Year: 2014-15

Notification Of cycles and schedules for conduction

S.No	CYCLE	DATE	List Of Programmes	SIGN
1			To write a program and analyze Time	
	Cycle-1		Complexity and Space Complexity of	
			MergeSort	
2			To write a program and analyze Time	
			Complexity and Space Complexity of	
			BinarySearch	
3			To write a program and analyze Time	
			Complexity and Space Complexity of	
	Cycle-2		Knapsack Problem	
4	-		To write a program and analyze Time	
			Complexity and Space Complexity of	
			Kruskal's Algorithm	
5			To write a program and analyze Time	
			Complexity and Space Complexity of	
			Prim;s Algorithm	
6			To write a program and analyze Time	
			Complexity and Space Complexity of All	
	Cycle-3		Pair Shortest path	
7	ř		To write a program and analyze Time	
			Complexity and Space Complexity of	
			Travelling Sales Person Problem	
8			To write a program and analyze Time	
	Cycle-4		Complexity and Space Complexity of	
	·		Graph coloring	
9			To write a program and analyze Time	
			Complexity and Space Complexity of	
			8Queen Problem	
10	Cycle-5		To write a program and analyze Time	
	•		Complexity and Space Complexity of NP-	
			Graph hard Problem	
11			To write a program and analyze Time	
			Complexity and Space Complexity of	
			finding the maximum and minimum	

	LabWork	element using Divide and Conquer	
	Beyond	Strategy	
12	Curriculum	Write a program to implement Dijkstra's	
		Algorithm	
13	Practise	Practise Lab Cycles	
	Session		
14	Exam	Internal Lab Examination	

Faculty Names: Mahesh.M, Purushottam.K Head of the Department