

	LESSON PLAN	Date: 04.08.2016
	Sub Name : Advanced Computer Networks Branch: M.Tech	CSE I Semester

S.No	Date	Topics to be covered	Unit No.	Teaching Method	Remarks
1	04-08-2016	Introduction	I	BB	
2		Data transmission		BB	
3	05-08-2016	Transmission impairments		BB	
4		Channel capacity		BB	
5	08-08-2016	Wired transmission(twisted pair,coax)		BB	
6		Optical fiber		BB	
7	09-08-2016	Wireless transmission		BB	
8		Wireless propagation		BB	
9	11-08-2016	Line of sight transmission		BB	
10	22-08-2016	Signal encoding(analog to analog)		BB	
11	23-08-2016	Analog to digital		BB	
12	25-08-2016	Digital to analog		BB	
13	26-08-2016	Digital to digital		BB	
14	29-08-2016	Tutorial		BB	
15	30-08-2016	TCP/IP protocol architecture	II	BB	
16	01-09-2016	Framing		BB	
17	02-09-2016	Framing		BB	
18	06-09-2016	Reliable transmission			
19	08-09-2016	Error detection and correction		BB	
20	09-09-2016	Ethernet			
21	13-09-2016	Ethernet			
22	15-09-2016	Token ring		BB	
23	16-09-2016	Token ring		BB	
24	19-09-2016	CRC		BB	
25	20-09-2016	Hamming distance		BB	
26	22-09-2016	tutorial		BB	
27	23-09-2016	Connecting devices	III	BB	
28	26-09-2016	ARP.RARP		BB	
29	27-09-2016	IP addressing		BB	

	LESSON PLAN	Date: 04.08.2016 To 11.08.2016
	Sub Name : Advanced Computer Networks Branch: M.Tech	CSE I Semester

30	29-09-2016	Packet forwarding classful address	IV	BB		
31	30-09-2016	Classless address		BB		
32	06-10-2016	Datagram fragmentation		BB		
33	07-10-2016	Components in IP software		BB		
34	13-10-2016	Private IP		BB		
35	14-10-2016	NAT		BB		
36	17-10-2016	ICMP		BB		
37	18-10-2016	Distance vector routing		BB		
38	20-10-2016	RIP		BB		
39	21-10-2016	Link state routing		BB		
40	24-10-2016	OSPF		BB		
41	25-10-2016	tutorial		BB		
42	27-10-2016	UDP-Port addressing		BB		
43	28-10-2016	UDP datagram		BB		
44	31-10-2016	UDP operation		BB		
45	01-11-2016	Udp Operation		BB		
46	03-11-2016	TCP services and features		BB		
47	04-11-2016	TCP segment		BB		
48	07-11-2016	TCP connection		BB		
49	08-11-2016	TCP state Transitions		BB		
50	10-11-2016	TCP module algorithm		BB		
51	11-11-2016	Flow and error control		BB		
52	14-11-2016	Congestion control		BB		
53	15-11-2016	SCTP services and features		BB		
54	17-11-2016	Packet format		BB		
55	18-11-2016	SCTP connection		BB		
56	21-11-2016	State transitions		BB		
57	22-11-2016	Flow and Error control		BB		
58	24-11-2016	Tutorial		BB		
59	25-11-2016	DNS-Distribution of name		V	BB	

	LESSON PLAN	Date: 04.08.2016 To 11.08.2016
	Sub Name : Advanced Computer Networks Branch: M.Tech	CSE I Semester

		space		
60	28-11-2016	Name resolution		BB
61	29-11-2016	DNS messages		BB
62	01-12-2016	HTTP Achitecture		BB
63	02-12-2016	HTTP Achitecture(cont)		BB
64	05-12-2016	TTP Transection		BB
65	06-12-2016	DHCP Address allocation		BB
66	08-12-2016	Pacekt format		
67	09-12-2016	Pacekt format		
68	04-08-2016	SNMP-SMI		BB
69		Mib		BB
70	05-08-2016	SNMP PDUs		BB
71		Real time data transfer-RTP		BB
72	08-08-2016	RTCP		BB
73		Voce over IP		BB
74	09-08-2016	Session Initiation Protocol		BB
75		TTP Transection		BB
76	11-08-2016	tutorial		

TEXT BOOK

William Stallings,"Data and Computer Communications",Pearson Education

REFERENCES

1. Behrouz A Forouzan, "TCP/IP Protocol Suite",Tata Mcgraw-Hill.
2. Peterson and Davie , " Computer networks A systems approach", Elsevier.
3. Kurose and Ross, "Computer networks A system approach", Pearson Education.
4. Behurouz A Forouzan, "Data Communications & Networking", 4th Edition,Mcgraw-Hill

	Prepared by	Approved by
Signature		
Name	B SIVARAMAKRISHNA	HOD/CSE
Designation	Asst.Professor/CSE	Professor



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)

L.B.Reddy Nagar, Mylavaram-521 230. Andhra Pradesh, INDIA

Affiliated to JNTUK, Kakinada & Approved by AICTE New Delhi

NAAC Accredited with "A" grade, Accredited by NBA,

New Delhi & Certified by ISO 9001:2008, <http://www.lbrce.ac.in>

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

LESSON PLAN

Dt:3-8-2016

Name of the faculty: K.NAGA PRASANTHI

Semester: I

A.Y:2016-17

Course Title: ADVANCED DATABASE MANAGEMENT SYSTEMS

SNo.	Tentative date	Topics to be covered	Actual date	Number of classes	Teaching Methodology
1	3/8/16	Introduction			DM1
2	4/8/16	Relational data model introduction			DM8
3	8/8/16	Entity relationship model			DM1
4	9/8/16	Entity relationship model examples			DM9
5	10/8/16	Normalization			DM1
6	11/8/16	Various normal forms			DM1
7	16/8/16	Query processing			DM1
8	17/8/16	Query processing algorithms			DM1
9	18/8/16	Query optimization			DM1
10	22/8/16	Techniques for query optimization			DM1
11	23/8/16	Transaction Processing			DM2
12	24/8/16	Properties of transactions			DM1
13	26/8/16	Concurrency control			DM1
14	29/8/16	Concurrency control techniques-			DM1
15	30/8/16	Database recovery			DM1
16	31/8/16	Recovery techniques			DM1
17	1/9/16	Database tuning			DM1
18	1/9/16	Database tuning			DM1
19	2/9/16	Tutorial-1			DM2
20	6/9/16	Tutorial-2			DM2
21	7/9/16	Revision of unit-I			DM1

22	8/9/16	Introduction to distributed databases			DM1
23	8/9/16	Parallel databases overview			DM1
24	13/9/16	architectures of parallel databases			DM1
25	14/9/16	Inter query parallelism			DM1
26	15/9/16	Intra query parallelism			DM1
27	19/9/16	Distributed database features			DM1
28	20/9/16	Tutorial-3			DM2
29	21/9/16	Distributed database Architecture			DM1
30	22/9/16	Fragmentation			DM1
31	22/9/16	Types of fragmentation			DM1
32	26/9/16	Distributed query processing			DM1
33	27/9/16	Distributed transaction processing			DM1
34	28/9/16	Concurrency control in distributed			DM1
35	29/9/16	recovery			DM1
36	29/9/16	Commit protocols			DM1
37	6/10/16	Tutorial-4			DM2
38	6/10/16	Introduction to object oriented databases			DM1
39	13/10/16	Approaches			DM1
40	13/10/16	Modelling and design			DM1
41	17/10/16	persistence			DM1
42	18/10/16	Query languages			DM1
43	19/10/16	transaction			DM1
44	20/10/16	concurrency			DM1
45	20/10/16	Tutorial-5			DM2
46	24/10/16	Multi version locks			DM1
47	25/10/16	recovery			DM1
48	26/10/16	POSTGRESS			DM1
49	27/10/16	JASMINE			DM1
50	27/10/16	GEMSTONE			DM1
51	31/10/16	ODMG Model			DM1
52	1/11/16	Revision of unit-3			DM1
53	2/11/16	Emerging systems			DM1
54	3/11/16	Enhanced data models			DM1
55	3/11/16	Client/server model			DM1
56	7/11/16	Data warehousing			DM1
57	8/11/16	Data mining			DM1
58	9/11/16	Web databases			DM1
59	10/11/16	Web databases			DM1
60	10/11/16	Mobile databases			DM1
61	14/11/16	Mobile databases			DM1

62	15/11/16	XML and web databases			DM1
63	16/11/16	Tutorial-6			DM1
64	17/11/16	Revision of unit-4			DM1
65	17/11/16	Current issues			DM1
66	21/11/16	Rules			DM1
67	22/11/16	Knowledge bases			DM8
68	23/11/16	Active and deductive databases			DM8
69	24/11/16	Multimedia databases			DM8
70	24/11/16	Multimedia data structures			DM8
71	29/11/16	Multimedia query languages			DM8
72	30/11/16	Multimedia query languages			DM8
73	1/12/16	Spatial databases			DM8
74	1/12/16	Spatial databases			DM8
75	2/12/16	Tutorial-7			DM2
76	6/12/16	Revision of unit-5			DM8
77	7/12/16	Revision			DM8
78	8/12/16	Revision			DM9
79	8/12/16	Revision			DM9
80	9/12/16	Revision			DM9

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	HOD



LakireddyBalireddy College of Engineering College

L.B.Reddy Nagar, Mylavaram , Krishna District, A.P

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

LESSON PLAN

Subject : **ADAVANCED DATA STRUCTURES(ADS) LAB - MTCS151**

Academic Year :	2016-17	Semester :	I	Date:03.08.2016
Year :	I(2016-18)	Section :	-	To:30.12.2016

MTCS151– ADAVANCED DATA STRUCTURES LAB

Lab. : 3 Periods/week

Internal Marks : 25

Tutorial :

External Marks : 50

Credits : 2

External Examination : 3 Hrs

Lab Programs:

S.No.	Name of the program
1	Write an interactive C program to create a linear linked list of a customer name and telephone number the program should be menu driven and include features for adding a new customer and delete and existing customer and displaying the list of all customers.
2	Write a C program to implement circular linked list.
3	Write a C program to create a circular linked list so that the input order of the data item is maintained. Add the following functions to carry out the following operations on circular linked lists .a) count the number of node.
4	Write a C program that will remove a specified node from a given doubly linked list and insert it at the end of the list. Also write a function to display the contents of the list.
5	Write a C program to implement a queue using arrays and linked list in which insertion, deletion, and display can be performed.
6	Write a C program to implement stack using arrays and linked list in which insertion, deletion, and display can be performed.
7	Write a C program to implement Merge sort
8	Write a C program to evaluating a post fixed expression using the array and linked list implementation of ADT.
9	Write a C program to construct a binary tree and do in order, pre order and post order traversals, printing the sequence of vertices visited in each case.
10	Sort a sequence of n integers using quick sort technique.
11	Write a C program for checking balanced parenthesis using array implementation of stack ADT.
12	Write a C program for checking balanced parenthesis using linked list implementation of stack ADT.



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L.B.Reddy Nagar, Mylavaram , Krishna District, A.P

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

LESSON PLAN

Subject : **ADAVANCED DATA STRUCTURES(ADS) LAB - MTCS151**

Academic Year : **2016-17** Semester : **I** Date:**03.08.2016**

Year : **I(2016-18)** Section : **-** To:**30.12.2016**

13	Write a C program to implement Heap sort
14	Write a C program to implement Double linked list.
15	Write a C program to implement Single linked list.
16	Write a C program to implement polynomial ADT.
17	Write a C Program to implement Hashing methods.
18	Write a C program to implement Insertion sort.

Pre-requisites:

- Students should have a good knowledge in C Programming Language

Course Educational Objectives (CEOs):

The course content enables students to:

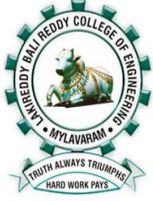
1. Write algorithms to implement various operations involved in different data structures.
2. Implement stacks, queues and apply them to write complex algorithms.
3. Implement different tree structures.

Course Outcomes(COs):

By the completion of the course, the students are able to:

- CO1. Implement various data structures like linked list, stacks, queues and trees.
CO2. Implement various searching, sorting and graph traversal techniques.

Session No	Program to be executed	Date	Remarks
1	Sample programs using Structure, Arrays and pointers.		Cycle-1
2	Write an interactive C program to create a linear linked list of a customer name and telephone number the program should be menu driven and include features for adding a new customer and delete and existing customer and displaying the list of all customers.		
3	Write a C program to implement circular linked list.		



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

LESSON PLAN

Subject : **ADAVANCED DATA STRUCTURES(ADS) LAB - MTCS151**

Academic Year : **2016-17**

Semester : **I**

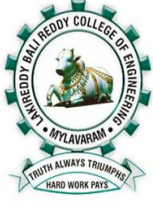
Date: **03.08.2016**

Year : **I(2016-18)**

Section : **-**

To: **30.12.2016**

4	<p>Write a C program to implement Double linked list.</p> <p>Write a C program to create a circular linked list so that the input order of the data item is maintained. Add the following functions to carry out the following operations on circular linked lists .a) count the number of node.</p>		
5	Write a C program that will remove a specified node from a given doubly linked list and insert it at the end of the list. Also write a function to display the contents of the list.		
6	Write a C program to implement a queue using arrays and linked list in which insertion, deletion, and display can be performed.		
7	<p>Write a C program to implement stack using arrays and linked list in which insertion, deletion, and display can be performed.</p> <p>Write a C program to implement Merge sort</p>		
8	<p>Write a C program to evaluating a post fixed expression using the array and linked list implementation of ADT.</p> <p>Write a C program to construct a binary tree and do in order, pre order and post order traversals, printing the sequence of vertices visited in each case.</p>		Cycle-2
9	Sort a sequence of n integers using quick sort technique.		
10	Write a C program for checking		



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

LESSON PLAN

Subject : **ADAVANCED DATA STRUCTURES(ADS) LAB - MTCS151**

Academic Year : **2016-17**

Semester : **I**

Date: **03.08.2016**

Year : **I(2016-18)**

Section : **-**

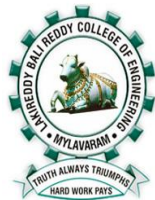
To: **30.12.2016**

	<p>balanced parenthesis using array implementation of stack ADT.</p> <p>Write a C program for checking balanced parenthesis using linked list implementation of stack ADT.</p>		
11	<p>Write a C program to implement Heap sort</p> <p>Write a C program to implement polynomial ADT.</p>		
12	<p>Write a C Program to implement Hashing methods.</p> <p>Write a C program to implement Insertion sort.</p>		

S.No	Teaching Learning Process (TLP)	Delivery Methods (DM)	Assessment Methods (AM)
1	Solving Real world problem	Chalk & Talk	Assignments
2	Explaining application before theory	ICT tools	Quiz
3	Solving problems	Group discussions	Tutorials
4	Designing of experiments	Industrial visit	Surprise Tests
5	Problems on environmental, economics, health & safety	Field work	Mid Exams
6	Problems on professional & ethics	Case studies	Model Exam
7	Seminar	Mini Projects	QAs
8	Problems using software	Numerical treatment	
9	Self study	Design / Exercises	

Assessment Summary:

Assessment Task	Weight age (Marks)	CO1	CO2
Assignments	--		
Quizzes	--		



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

LESSON PLAN

Subject : **ADAVANCED DATA STRUCTURES(ADS) LAB - MTCS151**

Academic Year : **2016-17**

Semester : **I**

Date:**03.08.2016**

Year : **I(2016-18)**

Section : **-**

To:**30.12.2016**

Tutorials	--		
Surprise Tests	--		
Internal Exams	10		
Day-to-Day Evaluation	10		
Lab Record	05		
End Exam	50		
Total	75		

Mapping Course Outcomes with Programme Outcomes:

Course Code	Unit	Course Outcomes		Programme Outcomes										
		1	2	a	b	c	d	e	f	g	h	i	j	k
MTCS151	I	S		M	L									
	II	S			L									
	III		S	L	L									
	IV	S			L									
	V		S		L									

	Instructor	Course Coordinator	Module Coordinator	HOD
Name	K.Rangachary			Dr. N. Ravi Shankar
Sign with Date				



LESSON PLAN

Course Name: ADVANCED DATA STRUCTURES
Programme: M.TECH

CODE: MCS 101
Department: CSE

COURSE EDUCATIONAL OBJECTIVES

1. Introduce the student to the concept of data structures through abstract data structures including list ADT such as singly linked, doubly linked, Circular linked, Stacks and queues.
2. Implementing binary search trees, *M*-way search trees, AVL trees, and Splay trees.
3. Introduce the student to algorithms design including greedy, divide-and-conquer, random and backtracking algorithms and dynamic programming; and specific algorithms including, for example, resizing arrays, balancing search trees, shortest path, and spanning trees.

COURSE OUTCOMES:

After the completion of the course, students should be able to,

CO1: design ADT such as single, double, circular, stack and queue and carryout the applications.

CO2: Construct trees such as AVL, Red-Black, Splay, B, B+, M-Way Search trees.

CO3: know priority queues, leftist, binomial, Fibonacci, symmetric min-max heaps and sorting techniques such as insertion, heap, merge, quick.

CO4: design and analyze various Greedy methods and dynamic programming methods

CO5: implement advanced topics like Branch and bound methods and Back tracking methods.

Prerequisites:

- Knowledge in C and C++ programming languages and algorithm design.

Mapping of CO-PO:

Course outcomes	a	b	c	d	e	f	g	h	i	j	k
CO1	1	2			3			2		2	1
CO2	1	2			1			2	3		1
CO3	1	2	1		1			2			1
CO4	1	2	1		1			2	2		1
CO5	1	2			1			2		3	1

1- Strongly correlated 2-Moderately correlated 3-Lightly correlated



LESSON PLAN

Course Name: ADVANCED DATA STRUCTURES
Programme: M.TECH

CODE: MCS 101
Department: CSE

No.	Tentative Date	Topics to be covered	Actual Date	Num. of classes	Content Delivery Methods
UNIT-I: Introduction					
1.	8/3/2016	Data Structures Introduction		1	DM1
2.	9/3/2016	List ADT		1	DM1,DM5
3.	10/3/2016	Single linked list (create, insertion)		1	DM1
4.	11/3/2016	Single linked list (deletion ,traverse)		1	DM1
5.	14/3/2016	double linked list (create, insertion)		1	DM1
6.	15/3/2016	double linked list (deletion ,traverse)		1	DM1
7.	16/3/2016	Circular linked list(Creation , insertion)		1	DM1
8.	17/3/2016	Circular linked list(deletion ,traverse)		1	DM1
9.	18/3/2016	Stack ADT		1	DM1,DM6
10.	21/3/2016	Stack Applications		1	DM1
11.	22/3/2016	Queue ADT, Circular queue		1	DM1,DM6
12.	23/3/2016	Binary trees		1	DM1
13.	24/3/2016	Binary search trees		1	DM1,DM6
14.	28/3/2016	Threaded Binary Trees, Forests		1	DM1
15.	29/3/2016	Heaps, Selection Trees		1	DM1,DM6
16.	30/3/2016	Test/Assignment/Quiz-1		1	DM2,DM3
31/3/2016		UNIT-II Efficient Binary Search Trees and Searches in Graphs			
17.	1/4/2016	AVL trees rotations		1	DM1,DM6
18.	4/4/2016	Insertion and deletion		1	DM1
19.	5/4/2016	Red-Black trees rotations		1	DM1,DM6
20.	6/4/2016	Insertion and deletion		1	DM1
21.	7/4/2016	Splay trees		1	DM1,DM6
22.	11/4/2016	M-Way search trees		1	DM1,DM6
23.	12/4/2016	Example (operations)		1	DM1
24.	13/4/2016	B-Trees		1	DM1,DM6
25.	14/4/2016	Operations (insertion and deletion)		1	DM1
26.	18/4/2016	B+ Trees		1	DM1
27.	19/4/2016	Depth First Search		1	DM1
28.	20/4/2016	Breadth First Search		1	DM1,DM6
29.	21/4/2016	Test/Assignment/Quiz-2		1	DM2,DM3
30.	21/4/2016	Single Double ended priority queues		1	DM1
31.	22/4/2016	Leftist trees		1	DM1,DM6
32.	22/4/2016	Binomial heaps		1	DM1



LESSON PLAN

Course Name: ADVANCED DATA STRUCTURES
Programme: M.TECH

CODE: MCS 101
Department: CSE

33	2/5/2016	Operations on heaps		1	DM1,DM6
34	3/5/2016	Fibonacci heaps		1	DM1
35	4/5/2016	Symmetric min-max heaps		1	DM1
36	5/5/2016	Insertion sort		1	DM1,DM6
37	6/5/2016	Heap sort		1	DM1
38	9/5/2016	Merge sort		1	DM1
39	10/5/2016	Quick sort		1	DM1
40	11/5/2016	Test/Assignment/Quiz-3		1	DM2,DM3
	12/5/2016	UNIT-IV Greedy methods and Dynamic programming			
41	13/5/2016	Container loading		1	DM1
42	14/5/2016	Knapsack problem		1	DM1,DM6
43	6/6/2016	Example		1	DM1,DM6
44	7/6/2016	Minimum cost spanning trees (Prims algorithm)		1	DM1,DM6
45	8/6/2016	Krushkals algorithm		1	DM1,DM6
46	9/6/2016	0/1 knapsack Algorithm		1	DM1,DM6
47	10/6/2016	Travelling Salesperson problem		1	DM1
48	13/6/2016	Optimal binary search trees		1	DM1,DM6
49	14/6/2016	Test/Assignment/Quiz-4		1	DM2,DM3
	15/6/2016	UNIT-V Branch and Bound and Back Tracking			
50	16/6/2016	The general methods LC and FIFO		1	DM1
51	17/6/2016	0/1 knapsack		1	DM1,DM6
52	20/6/2016	Example		1	DM1,DM6
53	21/6/2016	Travelling salesperson problem		1	DM1,DM6
54	22/6/2016	Example		1	DM1,DM6
55	23/6/2016	N-Queens problem		1	DM1
56	24/6/2016	State space tree		1	DM1
57	27/6/2016	Hamilton cycle		1	DM1
58	28/6/2016	Sum and Subsets problem		1	DM1
59	29/6/2016	State space tree		1	DM1
60	30/6/2016	Test/Assignment/Quiz-5		1	DM2,DM3
			Total	60	
Total number of classes required to complete the syllabus					60
Total number of classes available as per Schedule					60

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



LESSON PLAN

Course Name: ADVANCED DATA STRUCTURES
Programme: M.TECH

CODE: MCS 101
Department: CSE

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
	K.Rangachary		Dr.N.Ravi Sankar



LESSON PLAN

Course Code & Course Name: M.TECH AI ARTIFICIAL INTELLIGENCE

SEM: I

Programme: M.TECH 16-17YEAR

Department: CSE

Faculty Name : M.SRI BALA, ASSIST. PROFESSOR

Subject Name : ARTIFICIAL INTELLIGENCE Code :

Year : I Semester : I

Degree : M.Tech Programme : C.S.E

COURSE EDUCATIONAL OBJECTIVES

1. This course is used to provide the description of agents and various types of agents and how they used to solve various AI problems, solving various problems using various problem solving techniques and constraint satisfaction problems
2. This gives a clear view of issues of knowledge representation, propositional and predicate logic unification, resolution process, types of logic and its algorithms.
3. This course gives better understanding of reasoning, bayes theorem, certainty factors and fuzzy logic etc.
4. It gives a clear view of planning, planning in state search, types of learning, learning decision trees, learning neural net learning and genetic learning.
5. It provides a clear view of various advanced topics like game palying, expert systems, Robotics and swarm intelligence.

COURSE OUTCOMES:

After the completion of the course, students should be able to,

CO1: Ability to understand AI problems and techniques of solving problems, agents and their types.

CO2: Ability to understand knowledge and its representation techniques, logic and algorithms implementation in different kinds of logic.

CO3: Students able to know uncertainty and certainty, factors and theories and appropriate examples.

CO4: Student can understand various planning techniques and learning techniques.

CO5: 5. He can able to know various advanced topics like expert systems, robotics and swarm intelligent systems.



LESSON PLAN

Course Code& Course Name:M.TECH AI ARTIFICIAL INTELLIGENCE

SEM: I

Programme: M.TECH 16-17YEAR

Department:CSE

swarm intelligent systems.

2



LESSON PLAN

Course Code& Course Name:M.TECH AI ARTIFICIAL INTELLIGENCE

SEM: I

Programme: M.TECH 16-17YEAR

Department:CSE

S No.	Tentative Date	Topics to be covered	Actual Date	Num. of classes	Content Delivery Methods
UNIT-I:Introduction					
1.	3-8-16	History of AI		1	DM1,DM1
2.	3-8-16	History of AI		1	DM1
3.	4-8-16	Intelligent systems		1	DM1
4.	8-8-16	Structure of agents		1	DM1
5.	8-8-16	Functions of agents		1	DM1
6.	9-8-16	Heuristic search techniques		1	DM1
7.	10-8-16	Heuristic search techniques		1	DM1
8.	11-8-16	TUTORIAL-1		1	DM2
9.	16-8-16	Best first search		1	DM1,DM1
10.	17-8-16	Best first search		1	DM1
11.	18-8-16	Problem reduction		1	DM1
12.	22-8-16	Problem reduction		1	DM1
13.	22-8-16	TUTORIAL-2		1	DM2
14.	23-8-16	Constrain satisfaction problem		1	DM1
15.	24-8-16	Constrain satisfaction problem		1	DM1
16.	25-8-16	Means ends analysis		1	DM1
17.	29-8-16	Test-1		1	DM4
UNIT-II:KNOWLEDGE REPRESENTATION					
18	29-8-16	Approaches of knowledgerepresentation and issues		1	DM1
19	30-8-16	Knowledge based agents		1	DM1
20	5-9-16	Knowledge based agents		1	DM1
21	6-9-16	TUTORIAL-3		1	DM2
22	7-9-16	Propositional logic		1	DM1
23	8-9-16	Propositional logic		1	DM1
24	12-9-16	Predicate logic		1	DM1
25	13-9-16	Predicate logic		1	DM1
26	14-9-16	Unification		1	DM1
27	15-9-16	Resolution		1	DM1
28	19-9-16	Resolution		1	DM1
29	20-9-16	TUTORIAL-4		1	DM2
30	21-9-16	Weak slot filler structures		1	DM1
31	22-9-16	Strong slot filler structures		1	DM1
32	26-9-16	Strong slot filler structures		1	DM1
33	27-9-16	Revision for I st mid examination		1	DM1
34	28-9-16	Revision for I st mid examination		1	DM1
35	29-9-16	Test& Quiz		1	DM3,DM4
3-10-2016 TO 5-10-2016 IS 2 MID EXAMINATIONS					
UNIT-III:REASONING UNDER UNCERTAINTY					



LESSON PLAN

Course Code& Course Name:M.TECH AI ARTIFICIAL INTELLIGENCE

SEM: I

Programme: M.TECH 16-17YEAR

Department:CSE

36	6-10-16	Logics of non monotonic reasoning		1	DM1	
37	10-10-16	Logic implementation		1	DM1	
38	11-10-16	Probability notation		1	DM1	
39	12-10-16	Bayes theorem		1	DM1	
40	13-10-16	Bayes rules and networks		1	DM1	
41	17-10-16	TUTORIAL-5		1	DM2	
42	18-10-16	certainty factors and rules		1	DM1	
43	19-10-16	Rule based systems		1	DM1	
44	20-10-16	Dempster shafer theory		1	DM1	
45	24-10-16	Fuzzy logic		1	DM1	
46	25-10-16	TUTORIAL-6		1	DM2	
47	26-10-16	Comparison of various above mentioned methods		1	DM1	
48	27-10-16	Assignment		1	DM4	
UNIT-IV:PLANNING AND LEARNING						
49	31-10-16	Planning with state space search		1	DM1	
50	7-11-16	Conditional planning		1	DM1	
51	8-11-16	Continuous planning		1	DM1	
52	9-11-16	Planning types		1	DM1	
53	10-11-16	Multi agent planning		1	DM1	
54	14-11-16	Types of learning ,inductive learning		1	DM1	
55	15-11-16	TUTORIAL-7		1	DM2	
56	16-11-16	Reinforcement learning		1	DM1	
57	17-11-16	Learning decision trees		1	DM1	
58	21-11-16	Neural net learning and genetic learning		1	DM1	
59	22-11-16	Assignment & Quiz		1	DM1	
UNIT-V: ADVANCED TOPICS						
60	24-11-16	Game playing, min max procedure		1	DM1	
61	28-11-16	Adding alpha-beta cut offs		1	DM1	
62	29-11-16	Expert systems, representation, shells		1	DM1	
63	30-11-16	Knowledge acquisition		1	DM1	
64	1-12-16	Robotics hardware robotic perception		1	DM1	
65	5-12-16	Planning application domains		1	DM1	
66	6-12-16	Swarm intelligent systems		1	DM1	
67	7-12-16	Ant colony system, development		1	DM1	
68	8-12-16	Application and working of ant colony system				
69	12/12/2016	II MID EXAM		1	DM1	
70	13/12/2016	II MID EXAM		1	DM1	
71	14/12/2016	II MID EXAM		1	DM1	
72	15/12/2016	II MID EXAM				
				Total	72	
Total number of classes required to complete the syllabus					72	
Total number of classes available as per Schedule					60	



LESSON PLAN

Course Code& Course Name:M.TECH AI ARTIFICIAL INTELLIGENCE

SEM: I

Programme: M.TECH 16-17YEAR

Department:CSE

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
	M.Sri Bala		



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)

L.B.Reddy Nagar, Mylavaram-521 230. Andhra Pradesh, INDIA
Affiliated to JNTUK, Kakinada & Approved by AICTE New Delhi
NAAC Accredited with "A" grade, Accredited by NBA,
New Delhi & Certified by ISO 9001:2008, <http://www.lbrce.ac.in>

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

LESSON PLAN

Dt: 03-08-2016

Name of the faculty: G.V.RAJYA LAKSHM

Semester: I

A.Y: 2016-17

Course Title & Code: DATA MINING & MTCS103

SNo.	Tentative date	Topics to be covered	Actual date	Number of classes	Teaching Methodology
1	04-08-2016	UNIT- 1 : Introduction to datamining			DM1
2	05-08-2016	Different types of Data			DM8
3 3	08-08-2016	Data Quality, parameters			DM 1
4	09-08-2016	Data processing techniques			DM9
5	11-08-2016	Various measures in processing			DM1
6	22-08-2016	Similarity measures			DM1
7	23-08-2016	Dissimilarity measures			DM1
8	25-08-2016	Examples on measures			DM1
9	26-08-2016	Exploring data of different kind			DM1
10	29-08-2016	Data sets			DM4
11	30-08-2016	Summary of statistics			DM4
12	01-09-2016	Visualization of OLAP model			DM8
13	02-09-2016	Multi dimensional data analysis			DM1
14	06-09-2016	Unit-II: Classification Meaning			DM1
15	08-09-2016	Basic concepts of classification,			DM1
16	09-09-2016	Decision tree introduction			DM1
17	13-09-2016	Model evaluation on training set			DM1
18	15-09-2016	General approach for solving classification problem			DM1
19	16-09-2016	Decision tree induction			DM2

20	19-09-2016	Model over fitting: presence of noise			DM2
21	20-09-2016	Model over fitting: Lack of samples			DM1
22	22-09-2016	Evaluating performance of classifier			DM2
23	23-09-2016	Alternative techniques for classification			DM2
24	26-09-2016	Nearest neighbourhood classifier, Bayesian classifier			DM1
25	27-09-2016	Support vector machines, Linear SVM			DM4
26	29-09-2016	Support vector machines- Non separable case, Tutorial			DM4
27	30-09-2016	Unit- III: Introduction to association analysis. problem definition			DM1
28	06-10-2016	Frequent item set generation			DM2
29	07-10-2016	Rule generation – methods			DM1
30	13-10-2016	Algorithm on rule generation			DM1
31	14-10-2016	Compact representation of Frequent			DM2
32	17-10-2016	FP- growth algorithm, examples			DM2
33	18-10-2016	Categorical and continuous data for association analysis			DM2
34	20-10-2016	Conceptual data, hierarchies			DM1
35	21-10-2016	Sequential data – rules forming			DM1
36	24-10-2016	Sub-graphs patterns			DM1
37	25-10-2016	Generation of rules on subgraphs			DM2
38	27-10-2016	Examples on rule generation			DM4
39	28-10-2016	Tutorial on Unit - III			DM1
40	31-10-2016	Unit – IV: Introduction to clustering			DM1
41	01-11-2016	Various type of clustering			DM1
42	03-11-2016	K-means algorithm, clustering data			DM1
43	04-11-2016	Agglomerative Clustering			DM8
44	07-11-2016	DBScan clustering			DM8
45	08-11-2016	Evaluating clustering methods			DM2
46	10-11-2016	Unsupervised cluster evaluation			DM8
47	11-11-2016	Cohesion and separation techniques			DM8
48	14-11-2016	Evaluation using Proximity matrix			DM1
49	15-11-2016	Scalable clustering algorithms			DM1
50	17-11-2016	Tutorial and revision on unit iv			DM2,DM4
51	18-11-2016	Unit- V: Introduction to web mining,			DM1
52	21-11-2016	Web mining terminology, characteristics			DM1

53	22-11-2016	Web content mining, formats			DM1
54	24-11-2016	Web usage mining, procedure			DM1
55	25-11-2016	Web structure mining methods			DM1
56	28-11-2016	Introduction to search engines			DM1
57	29-11-2016	Characteristics and limitations of search engine			DM1
58	01-12-2016	Functionality and architecture of search engines			DM8
59	02-12-2016	Ranking of web pages searched			DM8
60	05-12-2016	Page searching methods			DM8
61	06-12-2016	Enterprise search methods			DM8
62	08-12-2016	Revision & tutorial of Unit – V			DM4
63	09-12-2016	Revision of all units			DM4

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	HOD
	G.V.Rajya Lakshmi	

COURSE HANDOUT

PROGRAM : M. Tech., I-Sem., CSE
ACADEMIC YEAR : 2016-17
COURSE NAME & CODE : Software Project Management & MTCS1054
L-T-P STRUCTURE : 4-1-0
COURSE CREDITS : 3
COURSE INSTRUCTOR : Mr. Lella Kranthi Kumar
COURSE COORDINATOR : Dr. Ch Venkata Narayana
PRE-REQUISITE: Basic knowledge regarding computer, graphics and screen designs.

COURSE OBJECTIVE:

1. Define and highlight importance of software project management.
2. To Describe and understand the software project management activities
3. To implement project plans through managing people, communications and change
4. To Select and employ mechanisms for tracking your software projects
5. Control your software projects Development
6. Learn how to apply the techniques and develop the documents related to IT project management.

COURSE OUTCOMES (CO)

CO1: Identify the basic concepts and issues of software project management , Parameters to be considered to improve the software economics.

CO2: Apply SDLC methodology for development and identification of artifacts for each lifecycle phases.

CO3: Apply activities necessary to successfully complete and close the software projects using all the checkpoints in development process.

CO4: Apply the metrics for assessing the quality and cost; Acquire knowledge about automation building blocks and organization structure.

CO5: Identify the elements of tailoring process and future software project management along with case study (CCPDS).

COURSE ARTICULATION MATRIX (Correlation between COs&POs,PSOs):

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1	2	-	-	-	-	-	-	-	-	-	2	-	-	-	2
CO2	2	-	-	-	-	-	-	-	-	-	3	-	-	-	3
CO3	1	-	-	-	-	-	-	-	-	-	3	-	-	-	1
CO4	2	-	-		3	-	-	-	-	-	2	-	-	-	2
CO5	3	-	-	-	2	-	-	-	-	-	3	-	-	-	3

Note: Enter Correlation Levels 1 or 2 or 3. If there is no correlation, put '-'
1- Slight(Low), 2 - Moderate(Medium), 3 - Substantial (High).

BOS APPROVED TEXT BOOKS:

T1 "Software Project Management ", walker Royce, Pearson Education, 2009.

COURSE DELIVERY PLAN (LESSON PLAN):**UNIT-I : Conventional software Project management, Evaluation of software Economics, Improving Software Economics, The old way and new way.**

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
1.	Introduction	1	04.07.2016		TLM1	CO1	T1	
2.	Introduction	1	05.07.2016		TLM1	CO1	T1	
3.	Development Life Cycle	1	06.07.2016		TLM1	CO1	T1	
4.	Process Models	1	07.07.2016		TLM1	CO1	T1	
5.	Process Models	1	08.07.2016		TLM1	CO1	T1	
6.	CMMI		11.07.2016		TLM1,TLM2	CO1	T1	
7.	Waterfall Model	1	12.07.2016		TLM1,TLM2	CO1	T1	
8.	Conventional Software Management Performance	1	13.07.2016		TLM1,TLM2	CO1	T1	
9.	Software Economics ,Pragmatic Software Cost Estimation	1	14.07.2016		TLM1,TLM1	CO1	T1	
10.	TUTORIAL	1	15.07.2016		TLM3	CO1	T1	
11.	Reducing Software Product Size	1	18.07.2016		TLM1,TLM2	CO1	T1	
12.	Improving Software Processes	1	19.07.2016		TLM1,TLM2	CO1	T1	
13.	Improving Team Effectiveness	1	20.07.2016		TLM1,TLM2	CO1	T1	
14.	Improving Automation	1	21.07.2016		TLM1,TLM2	CO1	T1	
15.	Achieving Required Quality & Peer Inspections	1	22.07.2016		TLM1,TLM2	CO1	T1	
16.	Principles of Conventional Software Engineering	1	25.07.2016		TLM1,TLM2	CO1	T1	
17.	Principles of Modern Software Management	1	26.07.2016		TLM3	CO1	T1	
18.	Transition to an iterative process	1	27.07.2016		TLM6	CO1	T1	
No. of classes required to complete UNIT-I		18			No. of classes taken:			

UNIT-II : Life cycle Phases, Artifacts of the process, Model based Software Architecture.

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
19.	Engineering and Production Stages	1	28.07.2016		TLM1	CO2	T1	
20.	Inception	1	29.07.2016		TLM1	CO2	T1	
21.	Elaboration	1	01.08.2016		TLM1,TLM2	CO2	T1	
22.	Construction	1	02.08.2016		TLM1,TLM2	CO2	T1	
23.	Transition	1	03.08.2016		TLM1,TLM2	CO2	T1	
24.	Artifact Sets Introduction	1	04.08.2016		TLM1,TLM2	CO2	T1	
25.	Management Artifacts		05.08.2016		TLM1,TLM2	CO2	T1	
26.	TUTORIAL	1	08.08.2016		TLM3	CO2	T1	
27.	Engineering Artifacts	1	09.08.2016		TLM1,TLM2	CO2	T1	
28.	Requirements Artifacts	1	10.08.2016		TLM1,TLM2	CO2	T1	
29.	Design Artifacts	1	11.08.2016		TLM1,TLM2	CO2	T1	
30.	Implementation Artifacts	1	12.08.2016		TLM1,TLM2	CO2	T1	
31.	Construction Artifacts	1	15.08.2016		TLM1,TLM2	CO2	T1	
32.	Programmatic Artifacts	1	16.08.2016		TLM1,TLM2	CO2	T1	
33.	Management Perspective	1	17.08.2016		TLM1,TLM2	CO2	T1	
34.	Technical Perspective	1	18.08.2016		TLM1.TLM2	CO2	T1	
35.	TUTORIAL	1	19.08.2016		TLM3	CO2	T1	
No. of classes required to complete UNIT-II		17			No. of classes taken:			

UNIT-III: Workflows of the process, Check Points of the process, Iterative Process Planning.

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
36.	Workflows	1	22.08.2016		TLM1	CO3	T1	
37.	software process workflows	1	23.08.2016		TLM1,TLM2	CO3	T1	
38.	Iteration Workflows	1	24.08.2016		TLM1,TLM2	CO3	T1	
39.	Iteration Workflows	1	25.08.2016		TLM1,TLM2	CO3	T1	
40.	Major & Minor Milestones	1	26.08.2016		TLM1,TLM2	CO3	T1	

41.	Periodic Status Assessments	1	29.08.2016		TLM1,TLM2	CO3	T1	
42.	Periodic Status Assessments	1	30.08.2016		TLM3	CO3	T1	
43.	Work breakdown structure	1	31.08.2016		TLM1,TLM2	CO3	T1	
44.	Work breakdown structure	1	06.09.2016		TLM1,TLM2	CO3	T1	
45.	Planning guidelines	1	07.09.2016		TLM1,TLM2	CO3	T1	
46.	TUTORIAL	1	12.09.2016		TLM3	CO3	T1	
47.	Cost & Schedule Estimating	1	13.09.2016		TLM1,TLM2	CO3	T1	
48.	Cost & Schedule Estimating	1	14.09.2016		TLM1,TLM2	CO3	T1	
49.	Iteration Planning Process	1	15.09.2016		TLM1,TLM2	CO3	T1	
50.	Pragmatic planning	1	16.09.2016		TLM1,TLM2	CO3	T1	
51.	Use of software to assist in project planning activities	1	19.09.2016		TLM1,TLM2	CO3	T1	
No. of classes required to complete UNIT-III		15			No. of classes taken:			

UNIT-IV: Project Organizations and Responsibilities, Process Automation, Project Control and Process Instrumentation.

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
52.	Line-of-Business Organization	1	20.09.2016		TLM1	CO4	T1	
53.	Project Organizations	1	21.09.2016		TLM1,TLM2	CO4	T1	
54.	Evolution of Organizations	1	22.09.2016		TLM1,TLM2	CO4	T1	
55.	Evolution of Organizations	1	23.09.2016		TLM1,TLM2	CO4	T1	
56.	Automation Building Blocks	1	26.09.2016		TLM1,TLM2	CO4	T1	
57.	Project Environment	1	27.09.2016		TLM1,TLM2	CO4	T1	
58.	Seven Core Metrics	1	28.09.2016		TLM1,TLM2	CO4	T1	
59.	TUTORIAL	1	29.09.2016		TLM3	CO4	T1	
60.	Management Indicators	1	30.09.2016		TLM1,TLM2	CO4	T1	
61.	Quality Indicators	1	03.10.2016		TLM1,TLM2	CO4	T1	
62.	Life Cycle Expectations	1	04.10.2016		TLM1,TLM2	CO4	T1	
63.	Pragmatic Software Metrics	1	05.10.2016		TLM1,TLM2	CO4	T1	
64.	Pragmatic Software Metrics	1	06.10.2016		TLM1,TLM2	CO4	T1	
65.	Metrics automation	1	07.10.2016		TLM1,TLM2	CO4	T1	

66.	Metrics automation	1	17.10.2016		TLM1,TLM2	CO4	T1	
67.	TUTORIAL	1	18.10.2016		TLM3	CO4	T1	
No. of classes required to complete UNIT-IV		16			No. of classes taken:			

UNIT-V: Tailoring the Process, Future Software Project Management, Case Study.

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
68.	Process Discriminants	1	19.10.2016		TLM1	CO5	T1	
69.	Process Discriminants	1	20.10.2016		TLM1,TLM2	CO5	T1	
70.	TUTORIAL	1	21.10.2016		TLM1,TLM2	CO5	T1	
71.	Modern Project Profiles	1	22.10.2016		TLM1,TLM2	CO5	T1	
72.	Next Generation Software Economics	1	24.10.2016		TLM1,TLM2	CO5	T1	
73.	Modern Process Transitions	1	25.10.2016		TLM1,TLM2	CO5	T1	
74.	Modern Process Transitions	1	26.10.2016		TLM1,TLM2	CO5	T1	
75.	CCPDS Case Study	1	27.10.2016		TLM1,TLM2	CO5	T1	
76.	CCPDS Case Study	1	28.10.2016		TLM1,TLM2	CO5	T1	
77.	CCPDS Case Study	1	31.10.2016		TLM1,TLM2	CO5	T1	
78.	Revision	1	01.11.2016		TLM1,TLM2	CO5	T1	
79.	TUTORIAL	1	02.11.2016		TLM3	CO5	T1	
No. of classes required to complete UNIT-V		11			No. of classes taken:			

Contents beyond the Syllabus

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	Learning Outcome COs	Text Book followed	HOD Sign Weekly
80.	Software Engineering.	1	01-07-16		TLM1			
81.	Software Testing Methodologies.	1	04-07-16		TLM1			

Teaching Learning Methods

TLM1	Chalk and Talk	TLM4	Problem Solving	TLM7	Seminars or GD
TLM2	PPT	TLM5	Programming	TLM8	Lab Demo
TLM3	Tutorial	TLM6	Assignment or Quiz	TLM9	Case Study

ACADEMIC CALENDAR:

Description	From	To	Weeks
I Phase of Instructions-1	04-07-2016	31-08-2016	8 1/2W
I Mid Examinations	01-09-2016	03-09-2016	1/2W
II Phase of Instructions I	06-09-2016	08-10-2016	5W
Vijaya Dasami Holidays	10-10-2016	15-10-2016	1W
II Phase of Instructions-II	17-10-2016	12-11-2016	4 W
II Mid Examinations	14-11-2016	16-11-2016	1/2W
Preparation and Practicals	17-11-2016	26-11-2016	1 1/2W
Semester End Examinations	28-11-2015	07-12-2015	1 1/2W

EVALUATION PROCESS:

Evaluation Task	COs	Marks
Assignment/Quiz – 1	1	A1=5
Assignment/Quiz – 2	2	A2=5
I-Mid Examination	1,2	B1=20
Assignment/Quiz – 3	3	A3=5
Assignment/Quiz – 4	4	A4=5
Assignment/Quiz – 5	5	A5=5
II-Mid Examination	3,4,5	B2=20
Evaluation of Assignment/Quiz Marks: $A=(A1+A2+A3+A4+A5)/5$	1,2,3,4,5	A=5
Evaluation of Mid Marks: $B=75\%$ of Max(B1,B2)+25% of Min(B1,B2)	1,2,3,4,5	B=20
Cumulative Internal Examination : A+B	1,2,3,4,5	A+B=25
Semester End Examinations	1,2,3,4,5	C=75
Total Marks: A+B+C	1,2,3,4,5	100

Course Instructor

Course Coordinator

Module Coordinator

HOD