



K L Deemed to be University

CSE-1 -- KLBCH

Course Handout

2025-2026, Odd Sem

Course Title	:DESIGN AND ANALYSIS OF ALGORITHMS
Course Code	:24CS2203
L-T-P-S Structure	: 3-0-2-2
Pre-requisite	:
Credits	: 4.5
Course Coordinator	:Dr.JARAJAPU SIRISHA DEVI
Team of Instructors	:
Teaching Associates	:

Syllabus :: Introduction: Definition of an Algorithm- Algorithm Specification - Analysis of Algorithm. PRAM Algorithms: Merging Sorting. String Algorithms: The naïve string matching algorithm, Robin – Karp algorithm. Divide and Conquer: Merge Sort-Quick - Sort- Strassen's Matrix Multiplication – Convex Hull. Greedy Method: The General Method - Job Sequencing with Deadlines -Knapsack Problem - Minimum Cost Spanning Trees - Huffman Codes - Single Source Shortest Path Method. Dynamic Programming: The General Method - Optimal Binary Search Tree - 0/1 Knapsack - Traveling Sales Person Problem. Ford Fulkerson. Backtracking: The Eight Queens Problem - Sum Of Subset Problem - Graph Coloring - Knapsack Problem. Brand Bound: 0/1 Knapsack Problem- Traveling Sales Person Problem. NP-Hard and NP-Complete Problems: Basic Concepts - Cook's Theorem, NP-Hard Graph Problems - CDP, NCDP, AOG

Text Books : 1. Ellis Horowitz, Sartaj Sahni and Sanguthevar Rajasekaran, "Fundamentals of Computer Algorithms", 2nd Edition, University Press, 2008. 2. Cormen, Leizerson & Rivest, "Introduction to algorithms", 3rd Edition, Prentice-Hall, 2002. 3. Jon Kleinberg and Eva Tardos, "Algorithm Design", Pearson Education, 2006.

Reference Books : 1. Robert Sedgewick and Kevin Wayne, "Algorithms", 4th edition, Addison Wesley Prof., (2011). 2. Anny Levitin, "Introduction to Design and Analysis of Algorithms", 2nd Edition, Person Education Press. (2007). 3. Michael T. Goodrich and Roberto Tamassia, Algorithm Design: Foundations, Analysis and Internet Examples, Second Edition, Wiley-India, (2006). 4. Steven S. Skiena, "The Algorithm Design Manual", Second Edition, Springer, (2008)

Web Links : 1. MIT Open Courseware : <https://ocw.mit.edu/courses/6-046j-design-and-analysis-of-algorithmsspring-2015/> 2. Pearson: <https://www.cs.princeton.edu/~wayne/kleinberg-tardos/> 3. Berkeley: <https://www2.eecs.berkeley.edu/Courses/CS170/> 4. Illinois: <https://jeffe.cs.illinois.edu/teaching/algorithms/> 5. Khan Academy: <https://www.khanacademy.org/computing/computer-science/algorithms>

MOOCS : 1. Algorithms Part-1: <https://www.coursera.org/learn/algorithms-part1> 2. Dynamic Programming, Greedy Algorithms: <https://www.coursera.org/learn/dynamic-programming-greedy-algorithms/home/info>

Course Rationale : If we try to identify those contributions of Computer Science, that will be long-lasting, surely one of these will be the refinement of the algorithm concept. Ever since man invented the idea of a machine that could perform basic mathematical operations, the study of what can be computed and how it can be done well was launched. This study, inspired by the computer, has led to the discovery of many important algorithms and design methods. The computer Science and Engineering program has embraced the study of algorithms as its own. The purpose of this course is to learn these methods to devise and analyze new algorithms on their own.

Course Objectives : The objective of this course is to study paradigms and approaches used to analyze and design algorithms and to appreciate the impact of algorithm design in practice.

COURSE OUTCOMES (COs):

CO NO	Course Outcome (CO)	PO/PSO	Blooms Taxonomy Level (BTL)
CO1	Apply concepts of mathematics to find space and time complexities of various algorithms including string-matching algorithm	PO1,PO2,PSO1	3
CO2	Analyze the problems that can be solved by using the Divide and Conquer and the Greedy Method	PSO2,PO2,PO5	4
CO3	Analyze the problems that can be solved by using Dynamic Programming and Backtracking	PSO2,PO2,PO5	4
CO4	Analyze the problems that can be solved by using Branch and Bound and NP-Hard Graph problems	PSO2,PO5,PO2	4
CO5	Analyze the various design techniques to solve any real-world problems.	PSO2,PO2,PO5	4
CO6	Analyze the various design techniques to solve any real-world problems.	PSO2,PO2,PO5	4

COURSE OUTCOME INDICATORS (COIs)::

Outcome No.	Highest BTL	COI-2	COI-3	COI-4
CO1	3	Btl-2 Understanding the concepts of merging and sorting using parallel algorithms	Btl-3 Apply string algorithms to check whether a pattern exists in the text or not.	
CO2	4	Btl-2 Understanding the concepts of the Greedy method.	Btl-3 Apply the divide and conquer technique to solve problems.	Btl-4 Analyze the problems that can be solved by using the greedy method.
CO3	4	Btl-2 Understanding dynamic programming and backtracking Techniques	Btl-3 Apply dynamic Programming to solve problems.	Btl-4 Analyze the state space tree for the problems that can be solved by using the backtracking method.
CO4	4	Btl-2 Understanding the concepts of NP-Hard and NPComplete	Btl-3 Apply branch and bound technique to solve 0/1 knapsack, traveling salesperson problem	Btl-4 Analyze NP-Hard and NPcomplete concepts to solve decision problems
CO5	4			Btl-4 The student will be able to analyze and apply suitable design techniques to implement given real-world problem
CO6	4			Btl-4 The student will be able to analyze and apply suitable design techniques to implement given real-time skilling problems.

PROGRAM OUTCOMES & PROGRAM SPECIFIC OUTCOMES (POs/PSOs)

Po No.	Program Outcome
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Lecture Course DELIVERY Plan:

Sess.No.	CO	COI	Topic	Book No[CH No] [Page No]	Teaching-Learning Methods	EvaluationComponents
1	CO1	COI-2	Course Handout, Definition of An Algorithm, Algorithm specification	T1	Chalk, LTC, PPT, Talk	ALM, End Semester Exam, Global Challenges, MOOCs Review, SEM-EXAM1
2	CO1	COI-2	Space complexity, time complexity of algorithms	T1	Chalk, LTC, PPT, Talk	ALM, End Semester Exam, Global Challenges, MOOCs Review, SEM-EXAM1
3	CO1	COI-2	Asymptotic Notations	T1	Chalk, LTC, PPT, Talk	ALM, End Semester Exam, SEM-EXAM1
4	CO1	COI-2	PRAM Algorithms: Merging, PRAM Algorithms: Sorting	T1	Chalk, LTC, PPT, Talk	ALM, End Semester Exam, SEM-EXAM1
5	CO1	COI-3	Naïve's string algorithm	T1	Chalk, LTC, PPT, Talk	ALM, End Semester Exam, SEM-EXAM1
6	CO1	COI-3	Robin Karp String Algorithm	T1	Chalk, LTC, PPT, Talk	ALM, End Semester Exam, SEM-EXAM1
7	CO1	COI-3	Knuth Morris Pratt algorithm	T1	Chalk, LTC, PPT, Talk	ALM, End Semester Exam, SEM-EXAM1
8	CO2	COI-2	Introduction to Divide and Conquer Method, Merge Sort	T1	Chalk, LTC, PPT, Talk	ALM, End Semester Exam, Global Challenges, MOOCs Review, SEM-EXAM1
9	CO2	COI-2	Quick Sort	T1	Chalk, LTC, PPT, Talk	ALM, End Semester Exam, SEM-EXAM1
10	CO2	COI-2	Strassen's Matrix Multiplication	T2	Chalk, LTC, PPT, Talk	ALM, End Semester Exam, SEM-EXAM1
11	CO2	COI-2	Convex Hull	T2	Chalk, LTC, PPT, Talk	ALM, End Semester Exam, SEM-EXAM1
12	CO2	COI-3	Greedy Method Introduction	T2	Chalk, LTC, PPT, Talk	ALM, End Semester Exam, SEM-EXAM1

Sess.No.	CO	COI	Topic	Book No[CH No] [Page No]	Teaching-Learning Methods	EvaluationComponents
13	CO2	COI-3	Knapsack Problem	T2	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM1
14	CO2	COI-3	Job Sequencing with Deadlines	T2	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM1
15	CO2	COI-4	Minimum Cost Spanning Trees-Kruskal's algorithm	T2	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM1
16	CO2	COI-4	Minimum Cost Spanning Trees-Prims algorithm	T2	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM1
17	CO2	COI-4	Huffman Codes	T2	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM1
18	CO2	COI-4	Single Source Shortest Path Method	T2	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM1
19	CO3	COI-2	Introduction to Dynamic Programming	T2	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,Global Challenges,MOOCs Review,SEM-EXAM2
20	CO3	COI-2	Optimal Binary search trees	T2	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,Global Challenges,MOOCs Review,SEM-EXAM2
21	CO3	COI-3	0/1 Knapsack problem	T2	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM2
22	CO3	COI-3	Travelling Sales Person Problem	T2	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM2
23	CO3	COI-3	Ford Fulkerson	T3	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM2
24	CO3	COI-3	BFS and DFS Algorithms	T2	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM2
25	CO3	COI-2	Introduction of Backtracking methodology,Solution Space and Tree Organization	T3	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM2
26	CO3	COI-4	8-Queens Problem,Graph coloring	T3	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,Global

Sess.No.	CO	COI	Topic	Book No[CH No] [Page No]	Teaching-Learning Methods	EvaluationComponents
						Challenges,MOOCs Review,SEM-EXAM2
27	CO3	COI-4	Sum of Subsets	T3	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM2
28	CO3	COI-4	0/1 Knapsack problem	T3	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM2
29	CO4	COI-2	Introduction to Branch and Bound Technique	T3	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,Global Challenges,MOOCs Review,SEM-EXAM2
30	CO4	COI-4	0/1 Knapsack problem – FIFO	T3	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM2
31	CO4	COI-4	Travelling salesperson Algorithm	T3	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,Global Challenges,MOOCs Review,SEM-EXAM2
32	CO4	COI-2	NP-H and NP-C Problems: Basic concepts, Cook's Theorem	T3	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM2
33	CO4	COI-3	NP-Hard Graph problems: Clique Decision Problem(CDP), Node Cover Decision Problem (NCDP)	T3	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM2
34	CO4	COI-4	And or Graph Problem (AOG)	T3	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM2
35	CO4	COI-4	Approximation Algorithms:Introduction, Planar Graph Coloring	T3	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM2
36	CO4	COI-4	Maximum Programs Stored Problem, NP-hard Absolute Approximations	T3	Chalk,LTC,PPT,Talk	ALM,End Semester Exam,SEM-EXAM2

Lecture Session wise Teaching – Learning Plan

SESSION NUMBER : 1

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Explanation about course hand out.Definition of an algorithm, characteristics & areas of algorithm	2	PPT	Seminars
20	Representation and structure of an algorithm	2	PPT	Quiz/Test Questions
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 2

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Space Complexity,Time complexity and Finding space for the given algorithm	2	PPT	--- NOT APPLICABLE ---
20	Representation and structure of an algorithm	2	PPT	Quiz/Test Questions
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 3

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Questio	2	Talk	--- NOT APPLICABLE ---
20	Asymptotic notations	2	PPT	--- NOT APPLICABLE ---
20	Problems solving using asymptotic notations	2	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 4

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	PRAM Algorithms: Merging	2	PPT	--- NOT APPLICABLE ---
20	Problem Solving using PRAM Algorithms: Merging	2	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 5

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	String algorithms,Naive's String Algorithm	2	PPT	--- NOT APPLICABLE ---
20	Finding pattern in the given text	3	PPT	Fish Bowl
5	Conclusion & Summary	2	PPT	Quiz/Test Questions

SESSION NUMBER : 6

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Robin karp introduction and algorithm	3	PPT	--- NOT APPLICABLE ---
20	Finding pattern in the given text	3	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 7**No Session Outcomes are mapped**

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Knuth Morris String Algorithm	3	PPT	--- NOT APPLICABLE ---
20	Finding pattern in the given text	3	PPT	--- NOT APPLICABLE ---
20	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 8**No Session Outcomes are mapped**

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Introduction to Divide and Conquer Method & Master's theore	2	PPT	--- NOT APPLICABLE ---
20	Merge Sort and its time complexity,Sorting numbers using Merge Sort	3	PPT	Quiz/Test Questions
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 9**No Session Outcomes are mapped**

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Quick Sort and Sorting Numbers using Quick Sort	3	PPT	--- NOT APPLICABLE ---
20	Time complexity for Quick Sort	3	PPT	Debate

5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---
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SESSION NUMBER : 10

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Strassen's matrix multiplication using divide and conquer method	3	PPT	--- NOT APPLICABLE ---
20	Finding product of two matrices using strassen's method	3	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 11

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Convex hull problem and Graham's scan algorithm	2	PPT	--- NOT APPLICABLE ---
20	Finding convex hull using Graham Scan algorithm	3	PPT	Quiz/Test Questions
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 12

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Introduction to Optimization problem and Greedy Strategy – Subset paradigm, Ordering paradigm	2	PPT	--- NOT APPLICABLE

20	Applications of Greedy Method	2	PPT	--- NOT APPLICABLE ---
20	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 13

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Knapsack Problem, its solution using Greedy methodology	3	PPT	--- NOT APPLICABLE ---
20	Finding optimal solution for knapsack problem and time complexity	3	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 14

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Job Sequencing problem definition, formulation & Greedy methodology and Finding optimal solution	3	PPT	--- NOT APPLICABLE ---
20	Job sequencing algorithm with time complexity	4	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 15

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
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5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Spanning tree definition,Kruskal's algorithm Explanation	3	PPT	--- NOT APPLICABLE ---
20	Finding MST using Kruskal's algorithm	4	PPT	Quiz/Test Questions
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 16

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Prim's algorithm defination,Finding MST using Prim's algorithm	4	PPT	--- NOT APPLICABLE ---
20	Comparison between Kruskals and prim's algorithm	2	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summar	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 17

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Data compression,Huffman codes	3	PPT	Quiz/Test Questions
20	Generating tree using Huffman codes	4	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 18

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Definition of single source shortest path problem (SSSP) & Greedy methodology for SSSP	3	PPT	Quiz/Test Questions
20	Finding shortest path using Dijkstras algorithm	4	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 19

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Dynamic Programming- Principle of optimality, methodology	3	PPT	--- NOT APPLICABLE ---
20	Differentiate Greedy method, Dynamic Programming and Divide & Conquer	2	PPT	Quiz/Test Questions
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 20

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	binary search trees,optimal binary search trees	2	PPT	--- NOT APPLICABLE ---
20	Generating OBST for the given set of identifiers	3	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 21**No Session Outcomes are mapped**

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Apply dynamic programming for solving 0/1 Knapsack problem	3	PPT	--- NOT APPLICABLE ---
20	Finding optimal solution for knapsack problem	4	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 22**No Session Outcomes are mapped**

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Recursive definition of Travelling Sales Person Problem and time complexity	3	PPT	Quiz/Test Questions
20	Finding optimal solution for TSP	4	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 23**No Session Outcomes are mapped**

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Recursive representation of Max flow and Ford Fulkerson algorithm	3	PPT	Case Study
20	Finding max flow for the given graph	3	PPT	--- NOT APPLICABLE ---

20	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---
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SESSION NUMBER : 24

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	BFS and DFS Concepts with Examples	3	PPT	--- NOT APPLICABLE ---
20	Generating spanning tree using BFS and DFS	4	PPT	Quiz/Test Questions
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 25

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Backtracking methodology and State space tree terminology	3	PPT	--- NOT APPLICABLE ---
20	Applications of backtracking	2	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 26

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	8-Queen's Problem definition and Graph colouring problem and boundary conditions	3	PPT	--- NOT APPLICABLE

20	Generating state space tree for 4-Queens problem	4	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 27

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Sum of subsets problem definition and Boundary condition formulation	2	PPT	--- NOT APPLICABLE ---
20	Generating state space tree for sum of subsets problem	3	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 28

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Questio	2	Talk	--- NOT APPLICABLE ---
20	0/1 knapsack problem using Backtracking methodology	3	PPT	--- NOT APPLICABLE ---
20	Generating state space tree for 0/1 Knapsack problem	3	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 29

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
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5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Branch and Bound Technique and its variations and LC Search	2	PPT	Quiz/Test Questions
20	Applications of branch and bound	2	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 30

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	0/1 knapsack problem and algorithm	3	PPT	--- NOT APPLICABLE ---
20	Finding optimal solution for knapsack problem	4	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 31

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Travelling salesperson Problem and boundary condition	3	PPT	--- NOT APPLICABLE ---
20	Difference between dynamic TSP and branch and bound TSP	4	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 32

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Introduction and Relationship between P,NP,NP-Hard and NP-Complete	3	PPT	--- NOT APPLICABLE ---
20	Cooks theorem	3	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 33

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	CDP definition & Prove that CDP is NP-Hard and V	3	PPT	Statement-Opinion-Summary
20	Prove that NCDP is NP-Hard	4	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 34

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	And or Graph Decision Problem(AOG) Theore,Finding optimal solution for AOG graph	3	PPT	Quiz/Test Questions
20	Prove that AOG is NP-Hard	4	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 35**No Session Outcomes are mapped**

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Introduction and algorithm for Planar Graph Coloring	3	PPT	--- NOT APPLICABLE ---
20	Problem Solving on Planar Graph Coloring	4	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 36**No Session Outcomes are mapped**

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	2	Talk	--- NOT APPLICABLE ---
20	Problems on Maximum Programs Stored Problem, NP-hard Absolute Approximations	3	PPT	Quiz/Test Questions
20	Problems on NP-hard Absolute Approximation	4	PPT	--- NOT APPLICABLE ---
5	Conclusion & Summary	2	PPT	--- NOT APPLICABLE ---

Tutorial Course DELIVERY Plan: NO Delivery Plan Exists**Tutorial Session wise Teaching – Learning Plan**

No Session Plans Exists

Practical Course DELIVERY Plan:

Tutorial Session no	Topics	CO-Mapping
1	Implement on Basic Programs on Arrays	CO5
2	Implement programs on Performance analysis of Time and Space complexity	CO5

Tutorial Session no	Topics	CO-Mapping
3	Implementation of programs on Sorting and Searching problems.	CO5
4	Implementation of Program on Naïve Based and KMP Algorithm.	CO5
5	Implementation of Programs on Divide and Conquer Problems.	CO5
6	Implement logic building or programs on Greedy Method: The General Method-Job Sequencing with Deadlines, Knapsack Problem	CO5
7	Implement programs on Minimum Spanning Tree, Single Source Shortest Path Method	CO5
8	Implement the programs on Dynamic Programming - OBST, 0/1 knapsack problem, TSP	CO5
9	Implement programs on Graph Coloring Problem. Sum of subset problem	CO5
10	Implement Programs on Backtracking problem-eight queen problem, 0/1 knapsack problem	CO5
11	Implementation Programs on the branch and Bound problems - TSP and 0/1 knapsack	CO5
12	Implement programs on NP-Hard and NP-Complete Problems	CO5
13	Implement Programs on CDP, NCDP and ANDOR Graph Problem (AOG)	CO5

Practical Session wise Teaching – Learning Plan

SESSION NUMBER : 1

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ /Poll/Pop Question	1	Talk	--- NOT APPLICABLE ---
45	Basic Programs on Arrays	4	PPT	--- NOT APPLICABLE ---
50	Advanced Programs on Ayyays	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 2

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance/ Recap /Poll/Pop Question	1	Talk	--- NOT APPLICABLE ---
45	Programs on Time Complexity	4	PPT	--- NOT APPLICABLE ---
50	Programs on Space Complexity	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 3

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Chalk	--- NOT APPLICABLE ---
45	Programs on Sortings	4	PPT	--- NOT APPLICABLE ---
50	Programs on Searching	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 4

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	Programs on Strings	4	PPT	--- NOT APPLICABLE ---
50	Finding pattern matching using string algorithms	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 5

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
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5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	programs on Divide and conquer	4	PPT	--- NOT APPLICABLE ---
50	programs on Divide and conquer	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 6

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	Programs on Greedy Method - Job Sequence With Deadlines	4	PPT	--- NOT APPLICABLE ---
50	Programs on Greedy Method - Knapsack Problem	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 7

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	Programs on Greedy Method - Minimum Spanning Tree	4	PPT	--- NOT APPLICABLE ---
50	Programs on Greedy Method - Single Source Shortest Path	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 8

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---

45	Programs on Dynamic Programming - Optimal BinarySearch Tree	4	PPT	--- NOT APPLICABLE ---
50	Programs on Dynamic Programming - 0/1 KnapsackProblem Programs on Dynamic Programming - Travelling SalesPerson Problem	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 9

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	programs on Graph Coloring Problem. Sum of subsetproblem	4	PPT	--- NOT APPLICABLE ---
50	programs on Graph Coloring Problem. Sum of subsetproblem	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 10

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	Programs on Back Tracking - eight queen problem	4	PPT	--- NOT APPLICABLE ---
50	Programs on Back Tracking - 0/1 knapsack problem	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 11

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	Programs on branch and bound technique - Travelling SalesPerson	4	PPT	--- NOT APPLICABLE ---

45	Programs on branch and bound technique - 0/1 Knapsack	4	PPT	--- NOT APPLICABLE ---
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SESSION NUMBER : 12

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	Programs on Non-Deterministic Algorithms	4	PPT	--- NOT APPLICABLE ---
50	Programs on Non-Deterministic Algorithms	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 13

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	Programs on Clique Decision Problems	4	PPT	--- NOT APPLICABLE ---
50	Program on Node Cover Decision Problems Programs on And Or Graph Problem	4	PPT	--- NOT APPLICABLE ---

Skilling Course DELIVERY Plan:

Skilling session no	Topics/Experiments	CO-Mapping
1	Basic data structures	CO6
2	strings and pattern-matching problems	CO6
3	Sorting and Searching	CO6
4	Divide and conquer	CO6
5	Greedy Method	CO6

Skilling session no	Topics/Experiments	CO-Mapping
6	Greedy Method	CO6
7	Dynamic Programming	CO6
8	Dynamic Programming	CO6
9	Dynamic Programming	CO6
10	Backtracking	CO6
11	Branch and Bound	CO6
12	Non-Deterministic Algorithms	CO6

Skilling Session wise Teaching – Learning Plan

SESSION NUMBER : 1

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	Programs on Arrays	4	PPT	--- NOT APPLICABLE ---
50	Programs on Basic data structures	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 2

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	programs on strings	4	PPT	--- NOT APPLICABLE ---
50	programs on strings	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 3**No Session Outcomes are mapped**

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	Programs on Sortings	4	PPT	--- NOT APPLICABLE ---
50	Programs on Searching	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 4**No Session Outcomes are mapped**

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	programs on Divide and conquer	4	PPT	--- NOT APPLICABLE ---
50	programs on Divide and conquer	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 5**No Session Outcomes are mapped**

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	Programs on Greedy Method	4	PPT	--- NOT APPLICABLE ---
50	Programs on Greedy Method	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 6**No Session Outcomes are mapped**

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	Programs on Greedy Method	4	PPT	--- NOT APPLICABLE ---
50	Programs on Greedy Method	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 7

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	Programs on Dynamic Programming	4	PPT	--- NOT APPLICABLE ---
50	Programs on Dynamic Programming	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 8

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	Programs on Dynamic Programming	4	PPT	--- NOT APPLICABLE ---
50	Programs on Dynamic Programming	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 9

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
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5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	programs on Graph Coloring Problem. Sum of subsetproblem	4	PPT	--- NOT APPLICABLE ---
50	programs on Graph Coloring Problem. Sum of subsetproblem	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 10

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	Programs on Back Tracking	4	PPT	--- NOT APPLICABLE ---
50	Programs on Back Tracking	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 11

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---
45	Programs on branch and bound technique	4	PPT	--- NOT APPLICABLE ---
50	Programs on branch and bound technique	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 12

No Session Outcomes are mapped

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance /Poll Question	1	Talk	--- NOT APPLICABLE ---

45	Programs on Non-Deterministic Algorithms	4	PPT	--- NOT APPLICABLE ---
50	Programs on Non-Deterministic Algorithms	4	PPT	--- NOT APPLICABLE ---

WEEKLY HOMEWORK ASSIGNMENTS/ PROBLEM SETS/OPEN ENDED PROBLEM-SOLVING EXERCISES etc:

Week	Assignment Type	Assignment No	Topic	Details	co
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COURSE TIME TABLE:

	Hour	1	2	3	4	5	6	7	8	9
Day	Component									
Mon	Theory	---	---	--	--	--	--	--	--	---
	Tutorial	---	---	--	--	--	--	--	--	---
	Lab	---	---	H-S1,H-S1	H-S1,H-S1	--	--	--	--	---
	Skilling	---	---	--	--	H-S11,H-S11,H-S12,H-S12	--	H-S11,H-S11,H-S12,H-S12	--	---
Tue	Theory	---	---	---	---	--	--	--	--	---
	Tutorial	---	---	---	---	--	--	--	--	---
	Lab	---	---	---	---	--	--	--	--	---
	Skilling	---	---	---	---	H-S6,H-S6	--	H-S6,H-S6	--	---
Wed	Theory	H-S11,H-S12	H-S11,H-S12	---	---	--	--	--	--	---
	Tutorial	--	--	---	---	--	--	--	--	---
	Lab	--	--	---	---	H-S11,H-S11,H-S12,H-S12	--	H-S11,H-S11,H-S12,H-S12	--	---
	Skilling	--	--	---	---	--	--	--	--	---
Thu	Theory	---	---	H-S6	H-S6	---	--	---	--	H-S11,H-S12
	Tutorial	---	---	--	--	---	--	---	--	--
	Lab	---	---	--	--	---	--	---	--	--

	Skilling	---	---	H-S1,H-S1	H-S1,H-S1	---	--	---	--	--
Fri	Theory	H-S1	H-S1	---	---	--	--	---	--	---
	Tutorial	--	--	---	---	--	--	---	--	---
	Lab	--	--	---	---	H-S6,H-S6	--	H-S6,H-S6	--	---
	Skilling	--	--	---	---	--	--	---	--	---
Sat	Theory	---	---	H-S6	---	---	--	---	--	H-S1
	Tutorial	---	---	--	---	---	--	---	--	--
	Lab	---	---	--	---	---	--	---	--	--
	Skilling	---	---	--	---	---	--	---	--	--
Sun	Theory	--	--	--	--	--	--	--	--	--
	Tutorial	--	--	--	--	--	--	--	--	--
	Lab	--	--	--	--	--	--	--	--	--
	Skilling	--	--	--	--	--	--	--	--	--

REMEDIAL CLASSES:

Supplement course handout, which may perhaps include special lectures and discussions that would be planned, and schedule notified according

SELF-LEARNING:

Assignments to promote self-learning, survey of contents from multiple sources.

S.no	Topics	CO	ALM	References/MOOCs
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DELIVERY DETAILS OF CONTENT BEYOND SYLLABUS:

Content beyond syllabus covered (if any) should be delivered to all students that would be planned, and schedule notified accordingly.

S.no	Advanced Topics, Additional Reading, Research papers and any	CO	ALM	References/MOOCs
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EVALUATION PLAN:

Evaluation Type	Evaluation Component	Weightage/Marks		Assessment Dates	Duration (Hours)	CO1	CO2	CO3	CO4	CO5	CO6
End Semester Summative	Skill Sem-End Exam	Weightage	8		90						8
		Max Marks	50								50

Evaluation Total= 40 %	Lab End Semester Exam	Weightage	8		90					8	
		Max Marks	50							50	
	End Semester Exam	Weightage	24		180	6	6	6	6		
		Max Marks	100			25	25	25	25		
In Semester Formative Evaluation Total= 24 %	Global Challenges	Weightage	5		90	1.25	1.25	1.25	1.25		
		Max Marks	100			25	25	25	25		
	Skilling Continuous Evaluation	Weightage	5		90						5
		Max Marks	50								50
	MOOCs Review	Weightage	5		90	1.25	1.25	1.25	1.25		
		Max Marks	100			25	25	25	25		
	Continuous Evaluation - Lab Exercise	Weightage	5		90					5	
		Max Marks	50							50	
	ALM	Weightage	4		90	1	1	1	1		
		Max Marks	100			25	25	25	25		
In Semester Summative Evaluation Total= 36 %	Skill In-Sem Exam	Weightage	6		90						6
		Max Marks	50								50
	Lab In Semester Exam	Weightage	6		90					6	
		Max Marks	50							50	
	Semester in Exam-II	Weightage	12		90			6	6		
		Max Marks	50					25	25		
	Semester in Exam-I	Weightage	12		90	6	6				
		Max Marks	50			25	25				

ATTENDANCE POLICY:

Every student is expected to be responsible for regularity of his/her attendance in class rooms and laboratories, to appear in scheduled tests and examinations and fulfill all other tasks assigned to him/her in every course

In every course, student has to maintain a minimum of 85% attendance to be eligible for appearing in Semester end examination of the course, for cases of medical issues and other unavoidable circumstances the students will be condoned if their attendance is between 75% to 85% in every course, subjected to submission of medical certificates, medical case file and other needful documental proof to the concerned departments

DETENTION POLICY :

In any course, a student has to maintain a minimum of 85% attendance and In-Semester Examinations to be eligible for appearing to the Semester End Examination, failing to fulfill these conditions will deem such student to have been detained in that course.

PLAGIARISM POLICY :

Supplement course handout, which may perhaps include special lectures and discussions

COURSE TEAM MEMBERS, CHAMBER CONSULTATION HOURS AND CHAMBER VENUE DETAILS:

Supplement course handout, which may perhaps include special lectures and discussions

Name of Faculty	Delivery Component of Faculty	Sections of Faculty	Chamber Consultation Day (s)	Chamber Consultation Timings for each day	Chamber Consultation Room No:	Signature of Course faculty:
Debnath Bhattacharyya	P	11-B	-	-	-	-
Debnath Bhattacharyya	S	11-B	-	-	-	-
Rani Medidha	L	11-MA,1-MA	-	-	-	-
Rani Medidha	P	1-A,6-B,11-A	-	-	-	-
Rani Medidha	S	11-A,1-A	-	-	-	-
KATANGURI SWANTHANA	P	12-B	-	-	-	-
Dr.JARAJAPU DEVI	L	6-MA,12-MA	-	-	-	-
Dr.JARAJAPU DEVI	P	12-A,6-A	-	-	-	-
Dr.JARAJAPU DEVI	S	6-A,12-A	-	-	-	-
yerragudipadu subbarayudu	P	1-B	-	-	-	-
yerragudipadu subbarayudu	S	1-B	-	-	-	-
Ravva Sahithi Arjun	S	6-B,12-B	-	-	-	-

GENERAL INSTRUCTIONS

Students should come prepared for classes and carry the text book(s) or material(s) as prescribed by the Course Faculty to the class.

NOTICES

Most of the notices are available on the LMS platform.

All notices will be communicated through the institution email.

All notices concerning the course will be displayed on the respective Notice Boards.

Signature of COURSE COORDINATOR

(Dr.JARAJAPU SIRISHA DEVI)

Signature of Department Prof. Incharge Academics & Vetting Team Member

Department Of CSE-1

HEAD OF DEPARTMENT:

Approval from: DEAN-ACADEMICS
(Sign with Office Seal) [object HTMLDivElement]