



MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

COURSE PLAN

Department	:	Computer Science and Engineering										
Course Name & code	:	Alogorithms Lab & CSE 2261										
Semester & branch	:	IV Semester & CSE										
Name of the faculty	:	Enter name of the faculty.										
No of contact hours/week:		<table border="1"><tr><td>L</td><td>T</td><td>P</td><td>C</td></tr><tr><td>0</td><td>0</td><td>3</td><td>1</td></tr></table>	L	T	P	C	0	0	3	1		
L	T	P	C									
0	0	3	1									

Course Outcomes (COs)

At the end of this course, the student should be able to:		No. of Contact Hours	Marks
CO1:	Ability to design one or more algorithms for a problem using appropriate data structures	12	34
CO2:	Convert the algorithm into a program which is efficient	12	33
CO3:	Ability to determine the complexity of various algorithms or the resulting programs	12	33
CO4:	Click or tap here to enter text.	Hrs.	Marks
CO5:	Click or tap here to enter text.	Hrs.	Marks
Total		36	100

Assessment Plan

1. Continuous Evaluation	Enter the weightage in percentage (60%).
Conduction of 4 evaluations each of 10 marks in 4th, 7th, 10th and 12th weeks	: 40 M
Conduction of 1 midterm assessments for 20 marks in 7th/8th week	: 20 M
	<hr/> 60 M
2. Lab Examination	Enter the weightage in percentage (40%).
<ul style="list-style-type: none">Examination of 2 hours duration (Max. Marks: 40)	
Write-up : 15M	Execution: 25M

Lesson Plan

L. No.	Topics	Course Outcome Addressed
L1	REVIEW OF FUNDAMENTAL DATA STRUCTURES	CO1, CO2, CO3
L2	FUNDAMENTALS OF ALGORITHMIC PROBLEM SOLVING	CO1, CO2, CO3
L3	BRUTE FORCE TECHNIQUE - I	CO1, CO2, CO3
L4	BRUTE FORCE TECHNIQUE - II	CO1, CO2, CO3
L5	DECREASE AND CONQUER	CO1, CO2, CO3
L6	DIVIDE AND CONQUER	CO1, CO2, CO3
L7	TRANSFORM AND CONQUER - I	CO1, CO2, CO3
L8	TRANSFORM AND CONQUER - II	CO1, CO2, CO3
L9	SPACE AND TIME TRADEOFFS	CO1, CO2, CO3
L10	DYNAMIC PROGRAMMING	CO1, CO2, CO3
L11	GREEDY TECHNIQUE	CO1, CO2, CO3
L12	BACKTRACKING & BRANCH AND BOUND	CO1, CO2, CO3
L13	Click or tap here to enter text.	CO
L14	Click or tap here to enter text.	CO

References:

1. Anany Levitin, Introduction to The Design and Analysis of Algorithms, 3rd Edition, Pearson Education, India, 2012.
2. Ellis Horowitz and Sartaj Sahni, Computer Algorithms/C++, Second Edition, University Press, 2007.
3. Thomas H. Cormen, Charles E. Leiserson, Ronal L, Rivest, Clifford Stein, Introduction to Algorithms, PHI, 2nd Edition, 2006.
4. Click or tap here to enter text.
5. Click or tap here to enter text.
6. Click or tap here to enter text.
7. Click or tap here to enter text.

Submitted by: Click or tap here to enter text.

(Signature of the faculty)

Date: Click or tap to enter a date.

Approved by: Click or tap here to enter text.

(Signature of HOD)

Date: 14-02-2022

FACULTY MEMBERS TEACHING THE COURSE (IF MULTIPLE SECTIONS EXIST):

FACULTY	SECTION	FACULTY	SECTION
