

MARWADI UNIVERSITY, RAJKOT

FACULTY OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGY

Semester – V

Subject Name: Design and Analysis of Algorithm (01CT0512) Academic Year: 2024-2025

Teaching Scheme:

Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/Practical Marks		Total Marks
Theory	Tutorial	Practical		ESE	IA	CSE	Viva	Term Work (TW)	
3	0	2	4	50	30	20	25	25	150

Teaching methodology:

- There will be three theory sessions and one lab session in a week to conduct course. Theory session will be of one hour and lab will be of two hours.
- Students will be given PCs individually and each student has to understand the algorithm and the codes. Optimize it and implement it using their preferred language on respective IDEs.

Major Assessment Methods:

Close Book Exam

- Open Book Exam
- Competitive Programming based Assessments
- Gate and Govt exam based Assessments
- Quizzes
- Lab Experiment

Assessment scheme:

• Internal Assessment (IA)

Total: 100 Marks (will be mapped to 30 Marks)

2 Close Book Written Exams of 50 marks each will be taken

Continuous Semester Evaluation (CSE)

Total: 40 Marks (will be mapped to 20 Marks)

30 Marks: 3-Quizzes (each of 10 marks) will be taken

10 Marks: Long Hour Coding will be taken

Term work (TW)

Total: 25 Marks

10 Marks: Assignment

10 Marks: Gate and Government based questions

05 Marks: Post-Lab Exercises

End Semester Exam (ESE)

Total: 100 Marks

60 Marks: Open Book Written Exam 40 Marks: Open Book Practical Exam



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Viva

Total: 25 Marks

End Sem viva will be taken. This will include coding over online platforms

Consolidate chart for assessment scheme:

Scheme	ESE	IA	CSE	Viva	Term work(TW)
Marks	50	30	20	25	25
Component	E	1			Р
Evaluation pattern	60 Marks: Open Book Written Exam 40 Marks: Open Book Practical Exam	100 Marks: 1 Close Book Written Exams 1 Close Book Practical Exams	30 Marks: 3-Quizzes (each of 10 marks) will be taken 10 Marks: 1-Long Hour Coding will be taken	25 marks: End Sem viva	10 Marks: Assignment 10 Marks: Gate and Government based questions 05 Marks: Post-Lab Exercises

Relative grading will be applicable for assessment of the course. Failure in the subject will lead to remedial exam of all assessment components.

Students would need to attend at least 75% of the sessions to pass this course.

*Note: Any Type of Copying/Plagiarism in any component would result in an 'F' Grade.

Prof. Nishith Kotak

Prof. C D Parmar

Subject Coordinator

Head of the department

Date: 28-06-2024