

SSN COLLEGE OF ENGINEERING, KALAVAKKAM – 603 110
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

IV SEMESTER – CSE 'A' SECTION
 CS6402 – DESIGN AND ANALYSIS OF ALGORITHMS

ACADEMIC YEAR: 2014-2015 (Even)

BATCH: 2013-2017

COURSE OBJECTIVES

The student should be made to:

- Learn the algorithm analysis techniques.
- Become familiar with the different algorithm design techniques.
- Understand the limitations of Algorithm power.

COURSE OUTCOMES

- Understand intrinsic nature of the problem
- Design algorithms for various computing problems
- Analyse the time and space complexity of algorithms
- Analyse the different algorithm design techniques for a given problem
- Modify existing algorithms to improve efficiency

ASSESSMENT MATRX

| Assessment Tools | Course Outcomes | | | | |
|--------------------------|-----------------|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 |
| <i>Assessment Test 1</i> | X | X | X | | |
| <i>Assessment Test 2</i> | X | X | X | X | |
| <i>Assessment Test 3</i> | | X | | X | X |

COURSE OUTCOMES MAPPED TO PROGRAMME OUTCOMES

Strong 0.5, Significant 0.3, Reasonable 0.2, NA 0

| Course Outcomes | Program Outcomes | | | | | | | | | | | |
|--|------------------|-----|-----|-----|---|---|---|-----|-----|-----|-----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| <i>Understand intrinsic nature of the problem</i> | 0.5 | 0.5 | 0 | 0.5 | 0 | 0 | 0 | 0.3 | 0 | 0 | 0 | 0 |
| <i>Design algorithms for various computing problems</i> | 0 | 0 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>Analyse the time and space complexity of algorithms</i> | 0 | 0 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0.3 | 0.2 | 0.3 | 0 |
| <i>Analyse the different algorithm design techniques for a given problem</i> | 0.5 | 0 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0.3 | 0 | 0.3 | 0 |
| <i>Modify existing algorithms to improve efficiency</i> | 0.5 | 0 | 0.5 | 0 | 0 | 0 | 0 | 0 | 0.3 | 0 | 0.3 | 0 |

FACULTY INCHARGE
[V.BALASUBRAMANIAN/S.KAVITHA]

HOD-CSE
[Dr. CHITRA BABU]