

| Course No. | Course Name | L-T-P - Credits | Year of Introduction |
|------------|-------------------------------------|-----------------|----------------------|
| MA201 | LINEAR ALGEBRA AND COMPLEX ANALYSIS | 3-1-0-4 | 2016 |

Prerequisite : Nil

Course Objectives

COURSE OBJECTIVES

- To equip the students with methods of solving a general system of linear equations.
- To familiarize them with the concept of Eigen values and diagonalization of a matrix which have many applications in Engineering.
- To understand the basic theory of functions of a complex variable and conformal Transformations.

Syllabus

Analyticity of complex functions-Complex differentiation-Conformal mappings-Complex integration-System of linear equations-Eigen value problem

Expected outcome .

At the end of the course students will be able to

- solve any given system of linear equations
- Find the Eigen values of a matrix and how to diagonalize a matrix
- identify analytic functions and Harmonic functions.
- evaluate real definite Integrals as application of Residue Theorem
- identify conformal mappings
- find regions that are mapped under certain Transformations

Text Book:

Erwin Kreyszig: Advanced Engineering Mathematics, 10th ed. Wiley

References:

- 1.Dennis g Zill&Patric D Shanahan-A first Course in Complex Analysis with Applications-Jones&Bartlett Publishers
- 2.B. S. Grewal, Higher Engineering Mathematics, Khanna Publishers, New Delhi.
- 3.Lipschutz, Linear Algebra,3e (Schaums Series)McGraw Hill Education India 2005
- 4.Complex variables introduction and applications-second edition-Mark J.Owitz-Cambridge Publication

Course Plan

| Module | Contents | Hours | Sem. Exam Marks |
|--------|--|-------|-----------------|
| I | Complex differentiation: Text 1[1.3,3,13.4] Limit, continuity and derivative of complex functions | 3 | |
| | Analytic Functions | 2 | |
| | Cauchy–Riemann Equations(Proof of sufficient condition of analyticity & C-R Equations in polar form not required)-Laplace's Equation | 2 | |
| | Harmonic functions, Harmonic Conjugate | 2 | 15% |
| II | Conformal mapping: Text 1[17.1-17.4] Geometry of Analytic functions Conformal Mapping. | 1 | |
| | Mapping: $w = z^2$ conformality of $w = e^z$. | 2 | 15% |

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