

## Syllabus

### APPLIED MATHEMATICS - III

S. E. Semester - III

(Mumbai University - Effective From June 2013)

**Common to Mechanical, Automobile,  
Production and Civil Engineering**

#### Module 1 : Laplace Transforms

(6)

1. Function of bounded variation, Laplace Transform of standard functions such as  $1$ ,  $t^n$ ,  $e^{at}$ ,  $\sin at$ ,  $\cos at$ ,  $\sin h at$ ,  $\cos h at$ .
2. Linearity property of Laplace Transform, First shifting property, Second shifting property, Change of Scale property of L.T. (without proof)

$L\{t^n f(t)\}$ ,  $L\left\{\frac{f(t)}{t}\right\}$ ,  $L\left\{\int_0^t f(u) du\right\}$ ,  $L\left\{\frac{d^n f(t)}{dt^n}\right\}$ , Heaviside unit step function, Dirac-delta function, Periodic functions and their Laplace Transform.

#### Module 2 : Inverse Laplace Transforms

(5)

1. Linearity property, use of theorems to find inverse Laplace Transform, Partial fractions method and convolution theorem.
2. Applications to solve initial and boundary value problems involving ordinary differential equations with one dependent variable.

#### Module 3 : Complex Variables

(10)

1. Functions of complex variable, analytic function, necessary and sufficient conditions for  $f(z)$  to be analytic (without proof), Cauchy-Riemann equations in polar coordinates.
2. Milne-Thomson method to determine analytic function  $f(z)$  when it's real or imaginary or its combination is given. Harmonic function, orthogonal trajectories.
3. Mapping : Conformal mapping, linear, bilinear mapping, cross ratio, fixed points and standard transformations such as rotation and magnification, inversion and reflection, translation.

#### Module 4 : Complex Integral

(10)

1. Line integral of a function of a complex variable, Cauchy's theorem for analytic function, Cauchy Goursat theorem (without proof), properties of line integral, Cauchy's integral formula and deductions.

# Applied Mathematics V 1

**Jessica J Manson**



## **Applied Mathematics V 1:**

## The Enigmatic Realm of **Applied Mathematics V 1**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Applied Mathematics V 1** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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