SOLAPUR UNIVERSITY

DETAILED SYLLABUS

STRUCTURE FOR S.E- I (CHEMICAL ENGINEERING)

2014-15

APPLIED MATHEMATICS- III

Teaching Scheme: Examination Scheme:

Lecture: 4 hr/ week Paper:

Theory: 100 Marks

Oral: 25 Marks

OBJECTIVE:

To provide students with mathematical knowledge and skills to support their concurrent and subsequent engineering studies

SECTION-'A'

Unit I :Ordinary differential equations - Complete solution, operator D, rules for finding complementation function, the inverse operator, Rules for finding the particular integral, Method of variations of parameters. Cauchy's and Legendre's linear differential equations. Simultaneous linear differential equations with constants co-efficient.

Unit H:Laplace transforms: Definition, standard forms, properties of Laplace transform, inverse Laplace transform, convolution theorem. Laplace transform of impulse function. Unit step function, Laplace transforms of periodic function.

Unit III

 a) Solution of differential equations, Simultaneous differential equations laplace transform method.

b) Fourier transforms - Definition standard forms, Inverse, Fourier transforms, properties of Fourier transforms, convolution theorem. Fourier sine and Fourier consine transforms and integrals.

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