

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 II: 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 cosine transforms and integrals.

Solapur University Syllabus Mechanical Engineering

JA Banks



Solapur University Syllabus Mechanical Engineering:

This book delves into Solapur University Syllabus Mechanical Engineering. Solapur University Syllabus Mechanical Engineering is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Solapur University Syllabus Mechanical Engineering, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Solapur University Syllabus Mechanical Engineering
 - Chapter 2: Essential Elements of Solapur University Syllabus Mechanical Engineering
 - Chapter 3: Solapur University Syllabus Mechanical Engineering in Everyday Life
 - Chapter 4: Solapur University Syllabus Mechanical Engineering in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Solapur University Syllabus Mechanical Engineering. This chapter will explore what Solapur University Syllabus Mechanical Engineering is, why Solapur University Syllabus Mechanical Engineering is vital, and how to effectively learn about Solapur University Syllabus Mechanical Engineering.
 3. In chapter 2, this book will delve into the foundational concepts of Solapur University Syllabus Mechanical Engineering. The second chapter will elucidate the essential principles that must be understood to grasp Solapur University Syllabus Mechanical Engineering in its entirety.
 4. In chapter 3, the author will examine the practical applications of Solapur University Syllabus Mechanical Engineering in daily life. This chapter will showcase real-world examples of how Solapur University Syllabus Mechanical Engineering can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Solapur University Syllabus Mechanical Engineering in specific contexts. The fourth chapter will explore how Solapur University Syllabus Mechanical Engineering is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Solapur University Syllabus Mechanical Engineering. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Solapur University Syllabus Mechanical Engineering.

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Solapur University Syllabus Mechanical Engineering Introduction

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