

## " Department of Computer Engineering"

# **Course Objectives**

### (.Course Name: Engineering Mathematics-III ((2015Pattern

#### Class: SE(Comp Course Code: 107003

:Course Objectives

After completing this course, student will have adequate mathematical background, :conceptual clarity, computational skills and algorithm design for problem solving related to

- Linear differential equations of higher order applicable to Control systems, Computer .vision and Robotics
- Transform techniques such as Fourier transform, Z-transform and applications to .Image processing
- Statistical methods such as correlation, regression analysis and probability theory to . .analyze data and to make predictions applicable to machine intelligence
- Vector calculus necessary to analyze and design complex electrical and electronic .devices asappropriate to Computer engineering
- Complex functions, conformal mappings and contour integration applicable to Image processing, Digital filters and Computer graphics

HOD

**Subject Teacher** 



## " Department of Electronics & Telecommunication Engineering"

# **Course Objectives**

## (Course Name: Engineering Mathematics-III ((2015Pattern

Class: SE(E & TC Course Code: 207005

:Course Objectives

After completion of the course, students will have adequate background, conceptual clarity :and knowledge of appropriate solution techniques related to

- Linear differential equations of higher order using analytical methods and .numericalmethods applicable to Control systems and Network analysis
- Transforms such as Fourier transform, Z-transform and applications to .Communication systems and Signal processing
- .Vector differentiation and integration required in Electro-Magnetics and Wave theory •
- Complex functions, conformal mappings, contour integration applicable .toElectrostatics, Digital filters, Signal and Image processing

**Subject Teacher** 

HOD



"Techno – Social Excellence" MarathwadaMitraMandal's (INSTITUTE OF TECHNOLOGY (MMIT .Lohgaon, Pune-411047

#### "Mechanized Design Application" Department of Mechanical Engineering

## **Course Objectives**

#### **Course Name: Engineering Mathematics III** (Course Code: 207002

#### Class: SE Mechanical Engineering (2015 Pattern

,After completion of the course, students will have adequate background :conceptual clarity and knowledge of mathematical principles related to

- Ordinary and partial differential equations applied to Mechanical engineering problems such .as mechanical vibrations and heat transfer
  - Integral Transform techniques such as Laplace transform, Fourier transform and
- applications to ordinary and partial differential equations in Vibration theory, Fluid .dynamics, Heat transfer and Thermodynamics
- Statistical methods such as correlation, regression analysis and probability theory in analyzing and interpreting experimental data applicable to Reliability engineering
  - .Vector differentiation and integration a pplied to problems in Fluid Mechanics •

HOD

#### **Subject Teacher**