**II Jai Sri Gurudev II**

**ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY**
(Affiliated to Visvesvaraya Technological University, Belagavi)

**Chikkamagaluru – 577102**

**Department of Mechanical Engineering**

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**Course Name: PYTHON PROGRAMMING For Mechanical Engineering**

**Program Objective:**

1. To understand the problem solving approaches.
2. To learn the basic programming constructs in Python.
3. To practice various computing strategies for Python-based solutions to real world problems.

**Coordinator: Rajanna D**

**Course Director: Dr. Satyanarayana G M**

**Teaching Hours: 30**

**Certification Criteria:**

1. Minimum 90% of attendance

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**Syllabus:**

This course includes Python Programs on Mechanics, Machine Design, Fluid Mechanics, Thermal Science, Heat Transfer, Vibrations, Optimization etc. It has covered various types of plots including line plots and 2D,3D contours plots where we can use this in visualizing engineering data.

It will review how to make plots as well as how to make interactive plots, analyze test data and some optimization part.

It covers from basic to advanced programs in mechanical fields.

It has following sections

1. Basic Concepts in Python

2. Programs on Mechanics, Machine Design etc.

3. Programs on Mechanical Vibrations

4. Programs on Fluid Mechanics, Thermal Science and Heat Problems.

5. Programs on Engineering Mathematics

6. Some Advanced programs like FFT use, Filter, Data Analysis.

**Course Enquiry Contact:**

**Department of Mechanical Engineering**

**AIT Campus, AIT, Jyothinagara, Chikkamagaluru-577102**