

**VISWANADHA INSTITUTE OF TECHNOLOGY AND MANAGEMENT**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

3 Days Summer Training in ANSYS Covers the Following Modules

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**Summer Training in ANSYS**, is a modular 3 days course, 4 hrs a day, and exclusively includes practical sessions. The course curriculum of Summer Training in ANSYS comprises:

Day-1

Date:03/05/2018(Thursday)

Module 01: Time: 10:00am-12.00noon

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- Introduction to ANSYS
- FEM/FEA concepts
- GUI of ANSYS
- Intro to modelling
- Overview on meshing
- 1D meshing using ANSYS

Trainers:

1. U.S Ramakanth
2. A. Chiranjeevi
3. A.Murali Krishna
4. M.Santhoshi VDV Lakshmi
5. Sasmita Panigrahee
6. K.Santhosh kumar
7. M.Padmanabham
8. K.Anusha Nandhini

Module 02: Time: 01:30pm-03.30pm

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- Ansys importance in Engineering Mechanics
- Solving truss problems(2D)
- Solving truss problems(3D)

Trainers:

1. U.S Ramakanth
2. A. Chiranjeevi
3. A.Murali Krishna
4. M.Santhoshi VDV Lakshmi
5. Sasmita Panigrahee
6. K.Santhosh kumar
7. M.Padmanabham
8. K.Anusha Nandhini

## Day-2

Date:04/05/2018(Friday)

Module 03: Time: 10:00am-12.00noon

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- Ansys importance in Mechanics of solids
- Solving simple Beam problem
- Solving simple Beam problem(square cross section)
- Solving simple Beam problem(circular cross section)
- Solving simple Beam problem(I- cross section)

Trainers:

1. Mr.U.S Ramakanth
2. Mr.A. Chiranjeevi
3. Mr.A.Murali Krishna
4. Ms.M.Santhoshi VDV Lakshmi
5. Ms.Sasmita Panigrahee
6. Mr.K.Santhosh kumar
7. Mr.M.Padmanabham
8. Ms.K.Anusha Nandhini

Module 04: Time: 01:30pm-03.30pm

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- Boolean Operations
- Plain Stress
- Uniform Pressure loading and plane stress Bracket
- Types of mesh free and mapped meshing
- Element Types-classification, properties

Trainers:

1. Mr.U.S Ramakanth
  2. Mr.A. Chiranjeevi
  3. Mr.A.Murali Krishna
  4. Ms.M.Santhoshi VDV Lakshmi
  5. Ms.Sasmita Panigrahee
  6. Mr.K.Santhosh kumar
  7. Mr.M.Padmanabham
  8. Ms.K.Anusha Nandhini
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## Day-3

Date:05/05/2018(Saturday)

Module 05: Time: 10:00am-12.00noon

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- Definition of natural frequency.
- Eigen value and Eigen vectors
- Natural frequency and mode shapes on trusses
- Natural frequency and mode shapes on beams

Trainers:

1. Mr.U.S Ramakanth
2. Mr.A. Chiranjeevi
3. Mr.A.Murali Krishna
4. Ms.M.Santhoshi VDV Lakshmi
5. Ms.Sasmita Panigrahee
6. Mr.K.Santhosh kumar
7. Mr.M.Padmanabham
8. Ms.K.Anusha Nandhini

Module 06: Time: 01:30pm-03.30pm

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- Advanced meshing and Techniques
- Modeling Using Axisymmetry
- Axisymmetric problem.

Trainers:

1. Mr.U.S Ramakanth
2. Mr.A. Chiranjeevi
3. Mr.A.Murali Krishna
4. Ms.M.Santhoshi VDV Lakshmi
5. Ms.Sasmita Panigrahee
6. Mr.K.Santhosh kumar
7. Mr.M.Padmanabham
8. Ms.K.Anusha Nandhini

Mr.U.S Ramakanth  
Co-ordinator

Mr.M.Rambabu  
HOD/ME