



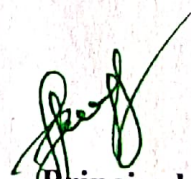
**ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**Shobhavana Campus, Mijar, Moodbidri, D.K - 574225**  
Phone: 08258-262725, Fax: 08258-262726

**TRAINING AND PLACEMENT CELL**

**Scheme and Syllabus**

Session	Session Topic
Day1: Forenoon (Hands-on)	<b>Module 1: Microsoft Word</b> Text, Paragraph and Page Formatting, Adding bullets and Numbering, Inserting symbols and special characters, watermarks, Inserting the date and time functions, Inserting table, Picture, Clipart, and Header & Footer.
Day1: Afternoon (Hands-on)	<b>Module 2: Microsoft Excel</b> Working with Cells, Rows, and Columns, Formatting Data and Cells, Working with Formulas and Built-in Functions, Creating charts and worksheets
Day2: Forenoon (Hands-on)	<b>Module 3: Microsoft PowerPoint</b> PowerPoint Basics, Create Presentations, Insert and Modify Text, Work with Graphics and Media, Final Preparations and Deliver a Presentation, Animations and running/playing the slides.
Day2: Afternoon	<b>Module 4: Practice Session</b> Exercise sessions on Microsoft Word, Excel and PowerPoint.

  
**Head**  
**Training and Placement**

  
**Principal**  
**PRINCIPAL**  
Alva's Institute of Engg. & Technology,  
Mijar, MOODBIDRI - 574 225, D.K



**ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**Shobhavana Campus, Mijar, Moodbidri, D.K – 574225**  
**Phone: 08258-262725, Fax: 08258-262726**

**Department of Electronics and Communication Engineering**  
**Scheme and Syllabus**

**Semester:** 4<sup>th</sup> semester

**Trainer:** Mr. Aneesh Jain M. V., Dept. of ECE, AIET, Mijar.

#	Topic	Session schedule
1.	<b>Module-1:</b> Introduction/ overview on MEMS and COMSOL Multiphysics	Session-1 Fore noon (4 hours) 06/02/2017
2.	<b>Module-2:</b> Briefing of step by step procedure for simulation	Session-2 Afternoon (3 hours) 06/02/2017
3.	<b>Module-3:</b> Modelling and simulation of Basic parallel plate capacitor to find capacitance.	Session-3 Fore noon (4 hours) 07/02/2017
4.	<b>Module-4:</b> Modelling and simulation of rectangular MEMS structure to find Eigen frequency.	Session-4 Afternoon (3 hours) 07/02/2017
5.	<b>Module-5:</b> Modelling and simulation of cantilever.	Session-5 Fore noon (4 hours) 08/02/2017
6.	<b>Module-6:</b> Modelling and simulation of pressure sensor.	Session-6 Afternoon (2 hours) 06/02/2017
<b>Total Duration: 20 hours</b>		

  
Faculty

  
HOD  
H. O. D.

Dept. Of Electronics & Communication  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225

  
PRINCIPAL  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225, D.K





## ALVA'S INSTITUTE OF ENGINEERING TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

Phone: 08258-262725, Fax: 08258-262726

### DEPARTMENT OF CIVIL ENGINEERING

#### Scheme and Syllabus

Semester: 6<sup>th</sup> Semester

Faculty In-charge Civil department: Prof. Surendra

Session No	Session Topic
Session 1 Fore Noon (4 Hrs)	Module 1: Introduction to Scilab Installation of the software Scilab, Basic Operators
Session 2 After Noon (3 Hrs)	Module 2: Syntax Basic syntax, Built in functions, Handling these data structures using built in functions.
Session 3 Fore Noon (4 Hrs)	Module 3: Programming Functions, Loops, Conditional statements, Handling .sci files. Exercise problems
Session 4 After Noon (3 Hrs)	Module 3: Programming Functions, Loops, Conditional statements, Handling .sci files. Exercise problems
Session 5 Fore Noon (4 Hrs)	Module 4: Graphics handling 2D, 3D data and its plotting, Data plotting. Exercise problems
Session 6 After Noon (2 Hrs)	Module 4: Graphics handling 2D, 3D data and its plotting, Data plotting. Exercise problems
TOTAL DURATION: 20 Hrs	

Staff Coordinator

PRINCIPAL

Alva's Institute of Engg. & Technology,  
Mijar, MOODBIDRI - 574 225, D.K

H.O.D.

Dept. of Civil Engineering  
Alva's Institute of Engg. & Technology  
Mijar, Moodbidri - 574 225



# ALVA'S INSTITUTE OF ENGINEERING TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

Phone: 08258-262725, Fax: 08258-262726

## DEPARTMENT OF MECHANICAL ENGINEERING

### Scheme and Syllabus


Semester: 6<sup>th</sup> Semester

Faculty Trainer Mechanical department: Prof. Kiran C H

Session No	Session Topic
Session 1 Fore Noon (4 Hrs)	<b>Module 1:</b> <b>Introduction to OpenFOAM</b> Possibilities for CFD with free software, Installation and multicore usage of OpenFOAM
Session 2 After Noon (3 Hrs)	<b>Module 2:</b> Usage of Insight CAE's GUI to run simulations fully automated on two examples: 1) Object in a wind tunnel, determination of resistance 2) Internal flow through valve, determination of pressure loss
Session 3 Fore Noon (4 Hrs)	<b>Module 3:</b> <b>Graphical postprocessing using Paraview</b> Concept of Paraview, Load OpenFOAM results, Extract section planes, surface contours, isosurfaces, streamlines
Session 4 After Noon (3 Hrs)	<b>Module 4:</b> <b>Build OpenFOAM simulations from scratch</b> Build OpenFOAM simulations from scratch Using InsightCAE's Case Builder for easy and fast case setup, including: creation of configuration for snappyHexMesh with graphical preview, creation of reasonable Finite-Volume schemes and solution settings,
Session 5 Fore Noon (4 Hrs)	<b>Module 4:</b> <b>Build OpenFOAM simulations from scratch</b> Build OpenFOAM simulations from scratch Using InsightCAE's Case Builder for easy and fast case setup, including: setting initial and boundary conditions using Case Builder, turbulence modelling (RANS/LES/DES) setup, settings for parallelized simulations
Session 6 After Noon (2 Hrs)	<b>Module 5:</b> <b>Direction to more complex tasks and simulations</b> Free surface, mesh refinement, complex geometries (mesh import/snappyHexMesh), Process integration and automatization
<b>TOTAL DURATION: 20 Hrs</b>	

  
Staff Trainer

  
PRINCIPAL  
Alva's Institute of Engg. & Technology,  
Mijar, MOODBIDRI - 574 225, D.K

  
HOD  
Dept. Of Mechanical Engineering  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225