



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)	Module 1: Microsoft Word 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)	Module 2: Microsoft Excel 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)	Module 3: Microsoft PowerPoint 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	Module 4: Practice Session Exercise sessions on Microsoft Word, Excel and PowerPoint.


Head
Training and Placement


Principal
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Scheme and Syllabus

Semester: 6th Semester

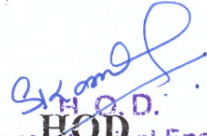
Faculty Trainer Mechanical department: Prof. Kiran C H

Session No	Session Topic
Session 1 Fore Noon (4 Hrs)	Module 1: Introduction to OpenFOAM Possibilities for CFD with free software, Installation and multicore usage of OpenFOAM
Session 2 After Noon (3 Hrs)	Module 2: 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)	Module 3: Graphical postprocessing using Paraview Concept of Paraview, Load OpenFOAM results, Extract section planes, surface contours, isosurfaces, streamlines
Session 4 After Noon (3 Hrs)	Module 4: Build OpenFOAM simulations from scratch 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)	Module 4: Build OpenFOAM simulations from scratch 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)	Module 5: Direction to more complex tasks and simulations Free surface, mesh refinement, complex geometries (mesh import/snappyHexMesh), Process integration and automatization
TOTAL DURATION: 20 Hrs	


Staff Trainer


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HOD
Dept. Of Mechanical Engineering
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DEPARTMENT OF ELECTRONIC & COMMUNICATION ENGINEERING

Department of Electronics and Communication Engineering

Scheme and Syllabus


Semester: 4th semester

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

#	Topic	Session schedule
1	Module-1: Introduction/ overview on MEMS and COMSOL Multiphysics.	Session-1 Fore noon (4 hours) 15/04/2021
2	Module-2: Briefing of step by step procedure for simulation.	Session-2 Afternoon (3 hours) 15/04/2021
3	Module-3: Composite Piezoelectric Transducer.	Session-3 Fore noon (4 hours) 16/04/2021
4	Module-4: Modelling and simulation of A 3D Biased Resonator: Stationary, Eigen frequency, Frequency Domain, and Pull-In Analyses.	Session-4 Afternoon (3 hours) 16/04/2021
5	Module-5: Modelling and simulation of Self Inductance and Mutual Inductance of a Single Conductor and a Helical Coil.	Session-5 Fore noon (4 hours) 17/04/2021
6	Module-6: Modelling and simulation of Modeling Piezoelectric Devices as Both Transmitters and Receivers.	Session-6 Afternoon (2 hours) 17/04/2021
Total Duration: 20 hours		


Faculty In-charge


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DEPARTMENT OF CIVIL ENGINEERING

Scheme and Syllabus

Semester: 6th Semester

Faculty Trainer 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	


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