

21-12-2020

Report on "Hands on session on let's learn MS-Office: ICT Tool"

A training session on **MS Office** was conducted for the second year students of all departments. For all the engineering departments the hands on session was conducted on the 16th and 17th of December 2020 and for the MBA department it was conducted on 11th and 12th of Feb 2021.

The focus goal of the MS Office programme was to capacitate the students in the three basic Microsoft office software applications to enhance operational effectiveness in their various academic activities (Windows, Microsoft word and Microsoft excel).

The staff coordinators and trainers of the hands on training conducted on the respective dates, were as follows

Department	Staff Coordinator
COMPUTER SCIENCE & ENGINEERING	Mr. Sayeesh
CIVIL ENGINEERING	Mr. Ramesh Rao B
ELECTRONICS & COMMUNICATION ENGINEERING	Mr. Santhosh S
INFORMATION SCIENCE & ENGINEERING	Mr. Sharan Lionel Pais
MECHANICAL ENGINEERING	Mr. Abhijith S
MBA	Mr. Sayeesh

Objectives of the program:

The following are the highlighted Objectives of the program:

- Enhance the basics of writing journal papers and project reports which is a requirement in UG programmes.
- Helps in Managing documents using advanced skills in Microsoft Office to create, edit and produce better documents.
- Enhance the presentation skills for their seminars and project works.



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



Learn MS-Office: ICT Tool conducted by Mr. Sayeesh

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 MECHANICAL ENGINEERING

REPORT ON hands-on session on "Quickstart into Computational Fluid Dynamics using OpenFOAM"

Date: 8th April 2021 to 10th April 2021

Venue: CAMD Lab

Trainer: Prof. Kiran C H

FOREWORD

This report intends to brief about the initiative taken by Alva's Institute of Engineering & Technology, Moodbidri for the Mechanical Engineering students during 8 April 2021 to 10 April 2021, for the enhancement of computational application in Mechanical Engineering streams. The trainer of the hands-on sessions is Prof. Kiran C H for the Mechanical Engineering Department.

PROCEEDING OF THE PROGRAM

The sessions were organised for a total duration of 20 Hrs. The sessions are scheduled for a period of three days on 8 April 2021 to 10 April 2021. In each session Mechanical students were given the opportunity to practice on OpenFOAMS. As it's a open source software with wide application some the application related to specific related to Computational Fluid Dynamics were discussed. The sessions started with a basic Introduction including Installation of the software, Introduction of the project InsightCAE, Graphical postprocessing using Paraview, Build OpenFOAM simulations from scratch Direction to more complex tasks and simulations.

The sessions were conducted at Mechanical Engineering CAMD Lab for 6th semester students of Mechanical Engineering for a period of three days by Prof. Kiran C H.

CONCLUSION

The program on Quickstart into Computational Fluid Dynamics using OpenFOAM for computational engineering application in fluid flow analysis gave the students the upper edge in the computational design field. The motto of the program was successfully achieved by all the students 6 Sem AIET. We would like to thank the Principal, AIET and Management of AEF for consistent support and encouragement. A special thanks note for the efforts put by faculty incharges, Prof. Kiran C H, Mechanical Engineering department AIET.

PHOTOS



OpenFOAM Training session conducted by Prof. Kiran C H

[Signature]
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 ELECTRONIC & COMMUNICATION ENGINEERING

A Brief Report

COMSOL Multiphysics Simulation tool for MEMS application

Date: 15/04/2021 to 17/04/2021.

Venue: MEMS Lab.

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

FOREWORD

This report intends to brief about the initiative taken by Alva's Institute of Engineering & Technology, Moodbidri for the Electronics and Communication Engineering students during 15/04/2021 to 17/04/2021, for the enhancement of simulation application in Electronics and Communication Engineering streams. The trainer of the hands-on sessions is Mr. Aneesh Jain M V from the Electronics and Communication Engineering Department.

PROCEEDING OF THE PROGRAM

The sessions were organised for a total duration of 20 Hrs. The sessions are scheduled for a period of three days on 15/04/2021 to 17/04/2021. In each session interested 2nd year ECE students were given the opportunity to practice on COMSOL Multiphysics tool. As its advanced software with wide application some the application related to specific related to electronics were discussed. The sessions started with an introduction/ overview on MEMS and COMSOL Multiphysics, Briefing of step by step procedure for simulation, Composite Piezoelectric Transducer, Modelling and simulation of A 3D Biased Resonator: Stationary, Eigen frequency, Frequency Domain, and Pull-In Analyses, Modelling and simulation of Self Inductance and Mutual Inductance of a Single Conductor and a Helical Coil, Modelling and simulation of Modeling Piezoelectric Devices as Both Transmitters and Receivers.

Modelling and simulation of Modeling Piezoelectric Devices as Both Transmitters and Receivers.

The sessions were conducted at Electronics and Communication Engineering MEMS Lab for 4th semester students of ECE department for a period of three days by Mr. Aneesh Jain M V.

CONCLUSION

The program on COMSOL Multiphysics Simulation tool for MEMS application for electronics engineering application gave the students the upper edge in the simulation design field. The motto of the program was successfully achieved by the students 4th Sem AIET. We would like to thank the Principal, AIET and Management of AEF for consistent support and encouragement. A special thanks note for the efforts put by faculty incharge, Mr. Aneesh Jain M V, Department of ECE, AIET, Mijar.

PHOTO



COMSOL Training session conducted by Prof. Aneesh Jain M V



ALVA'S INSTITUTE OF ENGINEERING TECHNOLOGY

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

Phone: 08258-262725, Fax: 08258-262726

DEPARTMENT OF CIVIL ENGINEERING

REPORT ON SCILAB FOR COMPUTATIONAL ENGINEERING APPLICATION

Date: 15 April 2021 to 17 April 2021

Venue: CADD Lab

FOREWORD

This report intends to brief about the initiative taken by Alva's Institute of Engineering & Technology, Moodbidri for the Civil and Mechanical Engineering students during 15 April 2021 to 17 April 2021, for the enhancement of computational application in their respective Engineering streams. The training incharge of the programme is Prof. Surendra for the Civil Engineering Department.

PROCEEDING OF THE PROGRAM

The sessions were organised for a total duration of 20 Hrs. The sessions are scheduled for a period of three days on 15 April 2021 to 17 April 2021. In each session the Civil and Mechanical Engineering Students were given the opportunity to practice on Scilab. As it's a open source software the application has wide application some the application related to specific related to the respective stream of Engineering were discussed. The sessions started with a basic Introduction including Installation of the software Scilab, Basic Operators and further it covered topics like Functions, Loops, Conditional statements, 2D, 3D data and it's plotting, Data plotting.

In Civil Engineering CADD Lab the sessions were conducted for 6th semester interested students of Civil and Mechanical engineering for a period of three days by Prof. Surendra.

CONCLUSION

The program on scilab for computational engineering application gave the students the upper edge in the computational design field. The motto of the program was successfully achieved by all the students of Mechanical and Civil Engineering students of 6 Sem AIET. We would like to thank the Principal, AIET and Management of AEF for consistent support and encouragement. A special thanks note for the efforts put by faculty incharges, Prof. Surendra, Civil Engineering department AIET.

PHOTOS



Scilab Training session by Prof. Surendra P


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



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Shobhavana Campus, Mijar, Moodabidri, Mangalore Taluk, D.K – 574225

Phone: 08258-262725, Fax: 08258-262726

DEPARTMENT OF CIVIL ENGINEERING

REPORT ON

Training session on "Google Spreadsheet for Civil Engineers"

Date: 10th May 2021 Venue: Online Platform-

Google meet: Link: <https://meet.google.com/vuy-tuyq-myw>

Trainer: Prof. Arun Kumar G S

FOREWORD

This report intends to brief about the initiative taken by Alva's Institute of Engineering & Technology, Moodbidri for the Civil Engineering students on 10th May 2021, for usage of Google spreadsheet. The trainer of the hands-on sessions is Prof. Arun Kumar G S from the Civil Engineering Department.

PROCEEDING OF THE PROGRAM

The sessions were conducted on 10th May 2021. During the session interested civil engineering students were given the opportunity to practice on Google Spreadsheet for Civil Engineers. As it's open source software having application in automation of design of civil structures. The sessions started The Programme was started by Civil Engineering HOD, AIET. The session started at 3:05 pm and continued till 5.20 pm regarding automation, excel sheet needs, Civil Engineering office works and design etc, were taught in the session, vote of thanks by Prof. Arun Kumar G S.

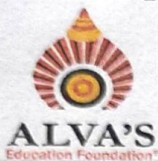
CONCLUSION

The program on Google Spreadsheet for Civil Engineers for civil engineering design application gave the students the basic idea how google spreadsheet can be used for design of civil engineering structures. The motto of the program was successfully achieved by all the Civil engineering of AIET. We would like to thank the Principal, AIET and Management of AEF for consistent support and encouragement. A special thanks note for the efforts put by faculty incharges, Prof. Arun Kumar G S, Civil Engineering department AIET.

PHOTO

Google Spreadsheet Training session conducted by Prof Arun Kumar G S
Lat: 13.023369, Long: 74.96762


PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar, MOODABIDRI - 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 BUSINESS ADMINISTRATION

Report on "Advanced Excel"

Classes on "Advanced Excel" were conducted for the First year MBA students by Dr. Kamalakkannan, Assistant Professor, Department of Business Administration from 4th February 2021 to 27th April 2021. The main aim of the program was to train the students in Advanced excel which is useful in academics and business activities.

Modules: Advanced Formulas, Data, Power Query, Tables & Formatting, Conditional Formatting, Advanced Charting, Pivot Tables & Pivot Reporting, VBA & Macros

The topics covered during training period are as follows:

1. Advanced Formulas

Formulas make Excel smart. Without them, Excel is just a data keeping tool. But by using formulas, you can crunch data, analyze it and get answers to most complex questions. While anyone can use a simple SUM or IF formula, an advanced user of it would be able to seamlessly write & combine formulas like SUMIFS, SUMPRODUCT, INDEX, MATCH, LOOKUP formulas.



SESSION ON ADVANCED EXCEL BY DR. KAMALAKKANNAN

DEPARTMENT OF BUSINESS ADMINISTRATION

2. Data, Power Query, Tables & Formatting

Advanced Excel users know how to gather, structure & present their data so that it looks impressive. Good understanding of Excel features like Power Query (Get & Transform Data), Tables, cell styles, formatting options is necessary to make awesome Excel workbooks.

- What is Power Query?
- Introduction to tables
- Using Structural References
- Tables – tips

3. Conditional Formatting

Conditional formatting is a powerful feature in Excel that is often underutilized. By using conditional formatting, you can tell Excel to **highlight portions of your data that meet any given condition.**

- Introduction
- 5 Tips on CF
- Highlighting Duplicates
- Hourly goals tracker – Advanced CF demo

4. Advanced Charting

There is no use if all your analysis is buried in a massive spreadsheet. Advanced users of Excel know that by using charts, we can **communicate effectively and present results in a stunning manner.** The skills required for advanced charting are,

- Selecting Right Chart
- Interactive charts in Excel
- Combine two chart types – demo
- In-cell charts
- Budget vs. Actual data – Advanced Chart
- Sparklines

DEPARTMENT OF BUSINESS ADMINISTRATION

5. Pivot Tables & Pivot Reporting

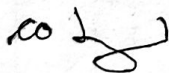
Pivot tables & pivot reporting allows us to analyze massive amounts of data & answer questions with just a few clicks.

6. VBA & Macros

Excel's own language – VBA, allows us to give instructions to Excel to get things done. This is a simple, but extremely powerful way to extend Excel's functionality. Advanced users of Excel are familiar with VBA & can write macros to automate their day to day work, thus saving countless hours of time & money.

- o Introduction to VBA
- o Understanding VBA Variables, Conditions & Loops
- o Find and extract matching values with VBA – Example
- o VBA Examples

The total of 85 students were benefited from the session



DEAN
Dept. of Business Administration
Alva's Institute of Engg. & Technology
MIJAR – 574 225



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