Hands on Training on Computer Aided Engineering (CAE) Ansys2l

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ZES's Zeal College of Engineering & Research
Dept of Mechanical Engineering
Pune-41

DEPARTMENT OF MECHANICAL ENGINEERING

COURSE DETAILS **Date:06/08/2022**

1	**Course Name**	Hands on Training on Computer Aided Engineering (CAE) Ansys2l
2	**Duration**	**50 Hrs**
3	**Date**	13th August 2022
4	**Students enrolled**	**16**
5	**Learners**	**BE**

Course Coordinator

Head of the Department

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Dept of Mechanical Engineering
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DEPARTMENT OF MECHANICAL ENGINEERING

1. Course Contents

1. Detailed Explanation & demonstration of the following tools in Ansys Design Modeller

i. Create: • New Plane • Extrude • Revolve • Sweep • Skin/ Loft • Thin/ Surface • Fixed Radius blend • Variable radius blend • Vertex blend • Chamfer • Pattern • Body operation • Boolean • Slice • Face Delete • Edge Delete • Point • Primitives

ii. Concept: • Lines from point • Lines from sketches • Lines from edges • 3D curve • Split edges • Surface from edges • Surface from sketches • Surface from faces

iii. Tools: • Freeze • Unfreeze • Named Selection • Mid-surface • Joint • Enclosure • Face split • Symmetry • Fill • Surface extension • Surface patch • Surface flip • Solid extension • Merge • Connect • Projection

2. Detailed Explanation & demonstration of following Concepts/ Points in Ansys Mechanical

1. Assigning material properties, creation of new material & its library
2. Creation of co-ordinate systems & its usages
3. Contacts:
   a) Different Types of contacts, there applications with examples
   b) Significance of all the types of contacts
   c) Contact Tool
   d) This will involve explanation of using contacts on Live Projects
4. Meshing:
   a) Local & Global Mesh settings
   b) All the Mesh Methods: Tetrahedron, Hex, Multizone etc.
   c) All the local mesh options
   d) Types of Elements & there significance
   e) Meshing will be explained on live projects

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5. Creation/ Applications of Point Mass, Spring element, Beam element, Joints, Constrain Equations, Remote Point

6. Parametric Modelling

3. Detailed Explanation & demonstration of following Analysis Systems on Industrial Projects.

1. Static Structural: This will involve-

a.) Explanation/ demonstration of all the tools under Static structural

b.) Live load cases will be explained with real life problems

c.) Multi step analysis

d.) Different analysis settings

e.) Structural analysis will be demonstrated on the industrial project

2. Modal Analysis

a.) Theoretical background of modal analysis

b.) Modal analysis will be demonstrated on the industrial project

3. Steady state Thermal analysis

a.) Steady state analysis will be demonstrated on the industrial project

4. Transient Thermal Analysis

a.) Transient thermal analysis will be demonstrated on the live project

5. Coupled Analysis

a.) Coupled analysis will be demonstrated on the industrial project

6. Design Optimization using direct optimization Tool

a.) Optimization of design dimensions, material & positioning of different components in assemblies.

Course Coordinator

Head of the Department

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Record No.: **ZCOER-ACAD/R/39**	Revision: **00**	Date:**01/04/2021**

DEPARTMENT OF MECHANICAL ENGINEERING

Notice (Hands on Training)

Date: 03/08/2022

Hands on training program on **"Computer Aided Engineering (CAE) –Ansys21"** for TE & BE students will be conducted from 13th August 2022 In the Department of Mechanical Engineering. The interested students can register to department on or before 10/08/2022.

The interested students can register through Google form link given below

Link : http://forms.gle/FE2UaoPjECQx9u8X8

Course Coordinator

Head of the Department

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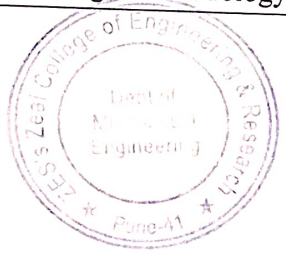
Hands on Training on Computer Aided Engineering (CAE) Ansys2l

Academic Year: 2022-23

Semester: I/II

Class: BE

Title of Activity/Event	Hands on Training on Computer Aided Engineering (CAE) - **Ansys2l**
Date of Activity/Event	13th August 2022
Name of Expert/Trainer	Prof .Adewar S.S,
Objective	The aim of this hands on training was to study the implementations of Analysis and get hands-on experience on CAE. Contents of this course is structured so as to cover the topics like Modelling, Engineering Material, Meshing ,Boundary condition, solution , read the result on ANSYS
Summary	Hands on training on Computer Aided Engineering (ANSYS 19.1) were successfully conducted for final year engineering (Mechanical Engineering Department, ZCOER Pune). This training is the part of skill development of the final year students to enhance their skill in CAD domain. This was conducted from 13th August 2022 with 50 hr duration Total 16 students were participated in these hands on training and 16 students were successfully clear the CAE test. The resource person for this training was Prof. Adewar S .S. following domain was covered through this training. 1. Import file 2. Apply material 3. Meshing 4. Boundary condition 5. Solve 6. Result Along with above domain also cover industrial design methodology with Industrial

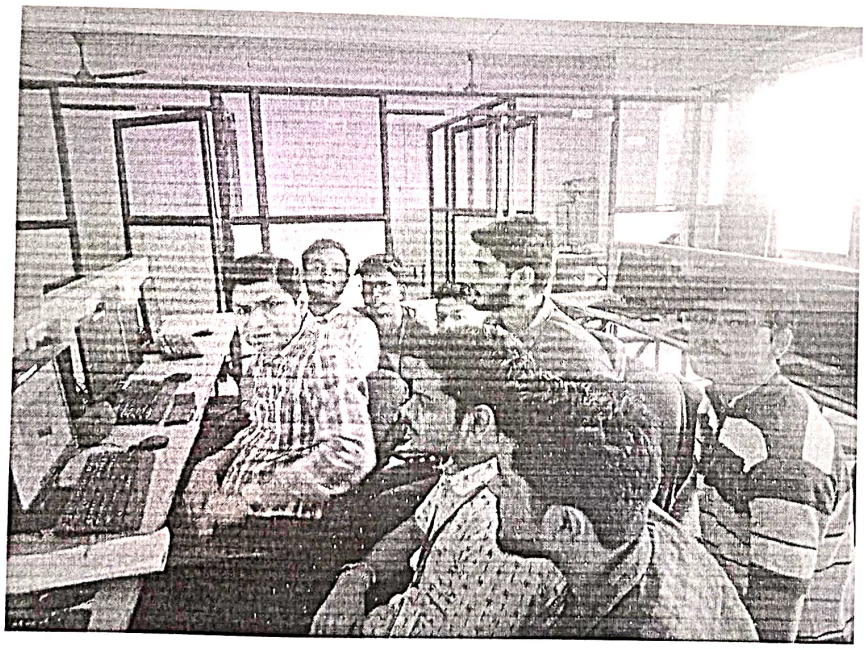


	standards. To evaluate all participants had conducted CAE test and also trained for industrial projects along with interview, question and answer As the outcome of this course 2 students are placed in the CAD service based company design Engineer. The program was coordinate d by Prof. Adewar S. S. under the guidance and support of Prof Godase SS. (HOD. Mechanical Engineering Department) and staff of Mechanical Engineering Department. The Program as organized under CAD/CAM/ CAE Excellence center

POs/PSOs Attained	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4
	✓	✓	✓	✓	✓	✓						✓	✓	✓	✓	✓

Outcomes	Ansys simulation gives engineers the ability to explore and predict how products will work or won't work in the real world. With industry-leading capabilities, Ansys enables our clients to rapidly innovate and easily validate their design ideas, empowering them to develop transformational products.

Photograph



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Course Coordinator

Head of the Department

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Record No.: **ZCOER-ACAD/R/21**	Revision: **00**	Date:**01/04/2021**

Attendance

Sr. No.	Name of Student	1	2	3	4	5	6	7
		13/8	20/8	3/9	17/9	1/10	8/10	15/10
1	BHOSALE GOKUL UMESH	P	A	P	P	P	A	P
2	BUDDE ABHISHEK RANGNATH	P	P	P	P	P	P	A
3	DIXIT HARSHIT MAHENDRA	P	P	P	A	P	P	P
4	SHENDGE RAVI VYANKAT	P	P	P	P	P	P	A
5	JANGAM RAHUL LAXMAN	P	P	P	P	P	P	P
6	KAWAD PARTH AVINASH	P	P	A	P	P	P	P
7	KHAVANEKAR PRASAD DATTARAM	P	P	P	A	A	P	P
8	KUMBHAR ROHIT BANDU	P	A	P	P	P	P	A
9	MALJI OMKAR SATISH	P	P	P	P	P	P	P
10	MULANI AARISH RIYAJ	P	P	P	P	P	P	P
11	NAIK DIGAMBAR DATTATRAY	P	P	P	A	A	P	A
12	SANGARE GAURESH JANARDHAN	P	P	P	A	P	P	A
13	SHANTANU PRADEEP AKASHE	P	P	P	P	P	A	P
14	THAKARE KOMAL NANA	A	P	A	P	P	P	P
15	DESHPANDE YOGESH GANESH	A	P	A	A	P	P	P
16	NAIK PRATHAM VINAY	P	P	P	A	P	P	P

S.S. Adewan

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Attendance

Sr. No.	Name of Student	1	2	3	4	5	6	7
		22/10	29/10	5/11	26/11	10/12	4/12	11/2
1	BHOSALE GOKUL UMESH	P	A	P	A	P	P	P
2	BUDDE ABHISHEK RANGNATH	P	A	P	A	P	P	P
3	DIXIT HARSHIT MAHENDRA	P	P	P	P	P	P	P
4	SHENDGE RAVI VYANKAT	P	P	A	P	P	P	P
5	JANGAM RAHUL LAXMAN	A	P	P	P	P	P	P
6	KAWAD PARTH AVINASH	A	P	P	P	P	P	P
7	KHAVANEKAR PRASAD DATTARAM	P	P	A	P	P	P	P
8	KUMBHAR ROHIT BANDU	A	P	P	P	P	P	P
9	MALJI OMKAR SATISH	A	P	P	A	P	A	P
10	MULANI AARISH RIYAJ	P	A	P	P	P	P	A
11	NAIK DIGAMBAR DATTATRAY	P	A	P	P	A	P	P
12	SANGARE GAURESH JANARDHAN	P	P	P	A	P	P	P
13	SHANTANU PRADEEP AKASHE	P	P	P	A	A	P	P
14	THAKARE KOMAL NANA	P	P	P	A	P	P	P
15	DESHPANDE YOGESH GANESH	P	P	A	P	P	P	P
16	NAIK PRATHAM VINAY	P	P	A	P	P	A	A

S. S. Adewar

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Record No.: ZCOER-ACAD/R/21	Revision: 00	Date:01/04/2021

Attendance

Sr. No.	Name of Student	1	2	3	4	5	6	7
		25/2	1/2	01/04	8/04	15/4	22/4	29/4
1	BHOSALE GOKUL UMESH	P	A	A	P	A	P	P
2	BUDDE ABHISHEK RANGNATH	P	P	P	P	P	P	P
3	DIXIT HARSHIT MAHENDRA	A	P	A	P	P	A	P
4	SHENDGE RAVI VYANKAT	A	P	P	P	A	P	P
5	JANGAM RAHUL LAXMAN	P	A	P	A	P	P	P
6	KAWAD PARTH AVINASH	P	P	P	P	A	P	A
7	KHAVANEKAR PRASAD DATTARAM	A	P	A	P	A	P	A
8	KUMBHAR ROHIT BANDU	A	P	A	P	P	P	P
9	MALJI OMKAR SATISH	P	P	P	P	P	A	P
10	MULANI AARISH RIYAJ	P	P	P	P	P	A	P
11	NAIK DIGAMBAR DATTATRAY	P	P	A	P	P	P	A
12	SANGARE GAURESH JANARDHAN	P	P	A	P	P	A	P
13	SHANTANU PRADEEP AKASHE	A	P	P	P	P	P	A
14	THAKARE KOMAL NANA	P	A	A	P	P	P	A
15	DESHPANDE YOGESH GANESH	P	A	A	P	P	P	A
16	NAIK PRATHAM VINAY	P	P	P	P	P	P	P

S. S. Adewar

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Attendance

Sr. No.	Name of Student	1	2	3	4	5	6	7
		6/9/23	27/9/23					
1	BHOSALE GOKUL UMESH	A	P					
2	BUDDE ABHISHEK RANGNATH	A	P					
3	DIXIT HARSHIT MAHENDRA	P	P					
4	SHENDGE RAVI VYANKAT	P	P					
5	JANGAM RAHUL LAXMAN	P	P					
6	KAWAD PARTH AVINASH	A	P					
7	KHAVANEKAR PRASAD DATTARAM	A	P					
8	KUMBHAR ROHIT BANDU	P	P					
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16	NAIK PRATHAM VINAY	P	P					

S.S. Adewar

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FEEDBACK FORM

Hands on Training Topic: CAE
Trainer Name: Prof.Adewar S.S.
Your objective feedback would be greatly appreciated.

Please answer all the statements according to the following 1 to 5 scale:-
Evaluation scale: 5=excellent; 4=good; 3=acceptable; 2=marginal; 1=weak)

Please **tick** between 1 and 5 to indicate which response best fits your experience of the presentation.

	PRESENTATION CONTENT	**Evaluation scale**				
1	Overview of topics/presentation	1	2	3	4	5 ✓
2	Identified critical concepts	1	2	3	4	5 ✓
3	Explanation of technical issues	1	2	3	4	5 ✓
4	Organization and flow	1	2	3	4	5 ✓
5	Summary/conclusions, critique	1	2	3	4	5 ✓
6	Queries response	1	2	3	4	5 ✓
	PRESENTATION					
7	The presenter appeared well informed about the subject	1	2	3	4	5 ✓
8	The presenter appeared enthusiastic about the subject	1	2	3	4	5 ✓
9	There was effective use of audio visual aids/handouts/ Live Applications	1	2	3	4	5 ✓
10	Student interaction	1	2	3	4	5 ✓

I **liked** the following things about the session:

The session might be **improved** by:

Please return your completed feedback form to the speaker at the end of presentation.
Thank you!!!!!

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7	The presenter appeared well informed about the subject	1	2	3	4 ✓	5
8	The presenter appeared enthusiastic about the subject	1	2	3	4	5 ✓
9	There was effective use of audio visual aids/handouts/ Live Applications	1	2	3	4	5 ✓
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Thank you!!!!!

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FEEDBACK FORM

Hands on Training Topic: CAE
Trainer Name: Prof.Adewar S.S.
Your objective feedback would be greatly appreciated.

Please answer all the statements according to the following 1 to 5 scale:-
Evaluation scale: 5=excellent; 4=good; 3=acceptable; 2=marginal; 1=weak)

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Thank you!!!!!

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CERTIFICATE
OF COMPLETION

THIS CERTIFICATE IS PRESENTED TO

MALJI OMKAR SATISH

Has successfully completed the Hands-On training course of

Computer Aided Engineering CAE Ansys 19.1

The course was scheduled from 03/08/2022 to 31/05/2023 under CAD CAM CAE Excellence center at the Department of Mechanical Engineering Zeal College of Engineering and Research Pune.

Prof.S.M.Godase
HEAD OF DEPARTMENT

Dr. A. M Kate
PRINCIPAL

ZEAL EDUCATION SOCIETY PUNE
ESTD-1996
ZCOER
PUNE

CERTIFICATE
OF COMPLETION

THIS CERTIFICATE IS PRESENTED TO

MULANI AARISH RIYAJ

Has successfully completed the Hands-On training course of

Computer Aided Engineering CAE Ansys 13.0

The course was scheduled from 21/08/2018 to 19/10/2018 under CAD CAM CAE Excellence center at the Department of Mechanical Engineering Zeal College of Engineering and Research Pune.

Prof.S.M.Godase
HEAD OF DEPARTMENT

Dr. A. M Kate
PRINCIPAL

ZEAL EDUCATION SOCIETY

Viraj Barge <placement.dcoer@zealeducation.com>

RE: Online Campus Drive - Mech & Production Engineering - CFD/FEA Application Engg (Batch 2022-23)-"Zeal College of Engineering and Research, Narhe, Pune"

Amol Sarpe <amols@analyzer-cae.com>
To: "Prof. Viraj Barge, Dean Training & Placement, Zeal Institutes, Pune" <placement.dcoer@zealeducation.com>
Cc: dharani@analyzer-cae.com, nitin@analyzer-cae.com, hr@analyzer-cae.com, CFD Training <cfdtraining@analyzer-cae.com>, Training Analyzer <training@analyzer-cae.com>

Dear Mam,

Please find the shortlisted students below as Engineering CFD/FEA Trainee.

Sr. No.	Domain	Student Name	Email ID	Mobile No. (Provide only 10 digits no. strictly)	Application Date Date
1	CFD	Omkar Anil Tandale	000tandale@gmail.com	9673597202	Zeal College of Engineering and Research, Narhe, Pune
2	FEA	Ravi Vyankat Shendge	ravishendge2910@gmail.com	7559335266	Zeal College of Engineering and Research, Narhe, Pune
3	FEA	Abhishek Rangnath Budde	buddeabhishek@gmail.com	7414931071	Zeal College of Engineering and Research, Narhe, Pune

Also ask students to fill the joining details in below form link, so we can plan accordingly.

Joining Details.

[Quoted text hidden]
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