

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavana Campus, Mijar – 574225, Moodbidri.

Dakshina Kannada Karnataka, India.



Department of Mechanical Engineering

CERTIFICATION COURSE

On

“ANSYS for FEA”

FOR THE ACADEMIC YEAR

2018-19



ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri - 574 225
Phone: 08258-262725 Fax: 08258-262726

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 28/6/2018

APPROVAL LETTER

To,

The Principal,
AIET, Moodbidri

Respected Sir,

Sub: - Approval for Organizing the Students Certification/Training Program on "Ansys for Finite Element Analysis"-Reg.


With reference to the subject cited above, I would like to bring to your kind notice that, the Department is planning to host a **Five day's** Student Training Program/ hands on workshop on **"Ansys for Finite Element Analysis"** from **09th July 2018** to **"13th July 2018"**.

Kindly consider the above request and approve the same for further proceedings.

Thanking you Sir.


Coordinator:

Mr. Hemanth S


Head of the Department:

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


Principal:
PRINCIPAL

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

Place: AIET, Moodbidri.



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Date:

CIRCULAR

All the students are hereby informed that there is a certification course on about **ANSYS for FEA** which is scheduled from 09.07.2018 to 13.07.2018, which is conducted by Mr. Kiran C H & Mr. Thrivikram P, AIET, Dept of mechanical engineering, moodbidri. Interested students kindly register your names on or before 05.07.2018.


Head of the Department:
Dept. Of Mechanical Engineering
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

ABOUT VTU, BELAGAVI

Visvesvaraya Technological University is a collegiate public state university in Karnataka State, India. It was established by the Government of Karnataka. The university is named after **M. Visvesvaraya** from Karnataka, the only engineer to be awarded a “**Bharat Ratna**”, the highest civilian award in India. Jnana Sangama, Belagavi is the headquarters of VTU. Additionally, the university has three regional centers in Bangalore, Gulbarga and Mysore. VTU is one of the largest universities in India with 212 colleges affiliated to it with an intake capacity of over 467,100 undergraduate students and 12,666 postgraduate students. The university encompasses technical and management fields which offer 30 undergraduate and 71 postgraduate courses. It has around 1800 PhD candidates. VTU has 13 QIP centers and 17 extension centers in its affiliated colleges offering postgraduate courses. It has around 2,305 departments recognized as research centers which are spread across its affiliated institutions in cities of Karnataka.

AIET, MOODBIDRI

Alva's Education Foundation (AEF) established in 1995 with the vision of our Chairman **Dr. M. Mohan Alva** has succeeded in making Moodbidri, an Educational hub in the South Canara Region, with more than 25000 students pursuing various courses ranging from primary school to post-graduate courses in social sciences, pure sciences, engineering and management. There are 21 institutions functioning under the Alva's Education Foundation.

Alva's Institute of Engineering and Technology, Moodbidri is a Premier Engineering Institute of Alva's Education Foundation, established in the year 2008. The college is certified to the ISO 9001: 2008 standards. The institute offers top quality education in five under graduate programs in Engineering-Computer Science, Civil, Electronics & Communications, Information Science, and Mechanical Engineering-Three Post Graduate programs- Master of Technology in Thermal Power Engineering, Computer Science & Engineering, VLSI Design Embedded System and Master of Business Administration.

DEPARTMENT OF MECHANICAL ENGINEERING

Department of Mechanical Engineering was established in the year 2008 with an intake of 60 and has enhanced to 180 from academic year 2012-13. The Post Graduate course, M.Tech in Thermal Power Engineering was introduced from the academic year 2012-13 with an intake of 18 students. Department is recognized as a research centre by VTU. Department is actively involved in Curricular and extracurricular activities in associations with professional bodies. The main objective of the department is to provide academic excellence, knowledge and nurture talent in the area of Mechanical Engineering. The department has started Bio Diesel research testing centre in the campus to explore in the area of Alternative Fuels.

Department vision is to develop Quality Mechanical Engineers to meet the ever growing and ever changing needs of the economy. The Department is committed to provide high quality technical education at under graduate and post graduate level by means of state of art curriculum with best teaching-learning process.

ABOUT Ansys for Finite Element Analysis COURSE

ANSYS software for structural analysis allows you to solve your most complex structural engineering projects and make superior design decisions more quickly. Finite element analysis (FEA) software from ANSYS provides engineers the ability to automate and customize simulations and even parameterize them for many design scenarios. You can easily connect ANSYS Structural Mechanics software to other physics tools for even better realism, predicting performance and behavior of even the most complex projects. Engineers throughout the industry optimize product designs with FEA software from ANSYS.

COURSE CONTENT

1. Introduction to Finite element analysis
2. FEA – Preprocessing
3. FEA – Solution
4. FEA- Post Processing
5. Mathematical Preliminaries of FEM
6. Demonstration in ANSYS

RESOURCE PERSON

Mr. Kiran C H & Mr. Thrivikram P

Assistant Professor

Department of Mechanical Engineering, AIET
Moodbidri

Organizing committee

Mr.Santosh A, Mr.Pramod K N, Mr. Prashanth M D,
Assistant Professor
Department of Mechanical Engineering AIET
Moodbidri

PROGRAM SCHEDULE

July 09, 2018

Inauguration:	09:00 am to 09:30 am
Tea Break:	9:30 am to 9:45 am
Session 1:	9:45 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 2:	02:00 pm to 05:00 pm

July 10, 2018

Session 3:	09:30 am to 11:00 am
Lunch Break:	01:00 pm to 02:00 pm
Session 4:	02:00 pm to 05:00 pm

July 11, 2018

Session 5:	09:30 am to 11:00 am
Lunch Break:	01:00 pm to 02:00 pm
Session 6:	02:00 pm to 05:00 pm

July 12, 2018

Session 7:	09:30 am to 11:00 am
Lunch Break:	01:00 pm to 02:00 pm
Session 8:	02:00 pm to 05:00 pm

July 13, 2018

Session 9:	09:30 am to 11:00 am
Lunch Break:	01:00 pm to 02:00 pm
Session 10:	02:00 pm to 04:00 pm
Valedictory:	04:30 pm to 05:00 pm

**ALVA'S INSTITUTE OF ENGINEERING AND
TECHNOLOGY, MOODBIDRI**

DEPARTMENT OF MECHANICAL ENGINEERING

Cordially invites you to the

Inauguration of Certification Program

On

“ Ansys for Finite Element Analysis ”

Resource Person: Mr. Kiran C H & Mr. Thrivikram P

Dept. of ME, AIET Moodbidri

Guest of Honor: Mr. Vivek Alva

Managing Trustee

President: Dr. Peter Fernandes

Principal, AIET, Moodbidri.

Coordinator

Mr. Hemanth S

Assistant Professor

Head of the Department

Mr K V Suresh

Associate Professor and Head

- ❖ **Invocation**
- ❖ **Welcome Speech**
- ❖ **Introducing the Chief Guest**
- ❖ **Honoring the Chief Guest**
- ❖ **Inauguration**
- ❖ **Presidential Speech**
- ❖ **Vote of Thanks**

Venue: AIET MECH Block@9.00AM



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DEPARTMENT OF MECHANICAL ENGINEERING

Ansysis for Finite Element Analysis -- ATTENDANCE REPORT-2018-19

SLN	USN	NAME(Caps Only)	09-07		10-07		11-07		12-07		13-07	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1.	4AL14ME062	NIKHIL P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.	4AL14ME074	RAJATH RAJ U.K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3.	4AL14ME110	ASWAGHOSH B S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.	4AL14ME738	VAISHNAV V R	A	✓	✓	✓	✓	✓	✓	✓	A	✓
5.	4AL15ME001	ABHINAV ANILKUMAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6.	4AL15ME003	ABHISHEK R MORE	✓	A	✓	✓	✓	✓	✓	✓	✓	✓
7.	4AL15ME009	AKAHAY BABU G K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8.	4AL15ME012	AKSHAY P	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
9.	4AL15ME019	ASHIK SANTHOSH	✓	✓	✓	✓	✓	✓	A	✓	✓	✓
10.	4AL15ME020	ASHRITH KUMAR J	✓	✓	✓	A	✓	✓	✓	✓	✓	✓
11.	4AL15ME021	ATHULKRISHNAN	✓	✓	✓	✓	✓	✓	✓	A	✓	✓
12.	4AL15ME027	CHETANKUMAR	A	✓	✓	✓	✓	A	✓	✓	✓	✓
13.	4AL15ME030	DARSHAN KRISHNA D	✓	✓	✓	✓	✓	✓	✓	✓	✓	A
14.	4AL15ME039	JYOTHI A	✓	✓	✓	A	✓	✓	✓	✓	✓	✓
15.	4AL15ME043	KIRANKUMAR S R	✓	✓	✓	✓	✓	✓	✓	A	✓	✓
16.	4AL15ME077	YASH RAJ SHETTY	✓	✓	A	✓	✓	✓	✓	✓	✓	✓
17.	4AL15ME088	VIDYASHEESH PATEL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18.	4AL15ME098	POOJARY LIKHITH	✓	✓	A	✓	✓	✓	A	✓	✓	✓
19.	4AL15ME099	SHETTY YASH	✓	✓	✓	✓	A	✓	✓	✓	✓	✓
20.	4AL15ME102	SHRAVAN	✓	A	✓	✓	✓	✓	✓	✓	A	✓
21.	4AL15ME730	NIDESH SHETTY	✓	✓	✓	✓	✓	✓	✓	✓	A	✓
22.	4AL15ME721	PAVAN S	✓	✓	✓	✓	A	✓	✓	✓	✓	✓
23.	4AL15ME727	SAURAV MANIKANTAN	✓	✓	✓	✓	✓	✓	✓	A	✓	✓

Coordinator

g.m.d



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

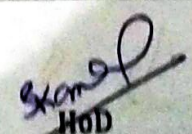
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DEPARTMENT OF MECHANICAL ENGINEERING

24.	4AL15ME733	SUJEETH M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
25.	4AL16ME003	ABHISHEK H SHETTY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
26.	4AL16ME006	AKHIL MOHAN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
27.	4AL16ME007	ANIL KUMAR	✓	A	✓	✓	✓	✓	✓	✓	A	✓	✓
28.	4AL16ME009	BAVINI	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓
29.	4AL16ME010	BLESSON XAVIER	A	✓	✓	✓	✓	✓	✓	A	✓	✓	✓
30.	4AL16ME011	CHANDRASHEKAR K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
31.	4AL16ME012	CHETHAN N	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓
32.	4AL16ME013	CHINMAYA G A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
33.	4AL16ME014	CHIRAG POOJARI	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓
34.	4AL16ME015	MOOLYA DIVYARAJ R	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓
35.	4AL16ME016	GANESH V K	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
36.	4AL16ME017	HARIKRISHNA RAJU	✓	A	✓	✓	✓	✓	✓	A	✓	✓	✓
37.	4AL16ME018	S A HITESH RAJ	✓	✓	A	✓	A	✓	✓	✓	✓	✓	✓
38.	4AL16ME019	KARTHIK S MENDON	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
39.	4AL16ME020	KEVIN JOSEPH LOBO	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
40.	4AL16ME021	KIRAN KUMAR	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓
41.	4AL16ME022	KISHORE KUMAR A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
42.	4AL16ME028	MANOJGOWDA K N	✓	✓	✓	A	✓	✓	✓	✓	✓	A	✓
43.	4AL16ME029	MANOJ KUMAR D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
44.	4AL16ME031	MERVIN LAWRENCE D' A	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓
45.	4AL16ME032	MOHAMMAD FAIZ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
46.	4AL16ME033	MOOSA NIZAMUDDIN	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓
47.	4AL16ME035	NAGASUNDAR K S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓


Coordinator


HOD



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DEPARTMENT OF MECHANICAL ENGINEERING

48.	4AL16ME036	NAVEEN A	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
49.	4AL16ME038	NAVEEN H R	✓	A	✓	✓	✓	✓	✓	✓	✓	✓
50.	4AL16ME040	NIKHIL H S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
51.	4AL16ME043	PARTHASARATHY D J	✓	✓	✓	✓	✓	✓	✓	A	✓	✓
52.	4AL16ME044	POOJARI PRASHANT S	A	✓	✓	✓	✓	✓	✓	✓	A	✓
53.	4AL16ME045	POOJARY HITEN UMESH	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
54.	4AL16ME048	PRASHANTH NAIK K	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
55.	4AL16ME049	PUJEETH KULAL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
56.	4AL16ME051	RAJATH RAI	✓	✓	✓	✓	✓	✓	✓	A	✓	✓
57.	4AL16ME052	RAKESH	✓	✓	✓	✓	✓	✓	✓	✓	✓	A
58.	4AL16ME053	RAKESH A	✓	A	✓	✓	✓	✓	✓	✓	A	✓
59.	4AL16ME054	RAKESH R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
60.	4AL16ME057	RAKSHITH	✓	✓	✓	A	✓	✓	✓	✓	✓	✓
61.	4AL16ME059	RAKSHITH KOTAIN	✓	✓	✓	✓	✓	✓	✓	A	✓	✓
62.	4AL16ME060	RAKSHITH R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
63.	4AL16ME061	RAVI NIMBONI	✓	✓	✓	✓	✓	✓	✓	✓	A	✓
64.	4AL16ME063	S NIKHILESH	✓	✓	✓	✓	✓	✓	✓	A	✓	✓
65.	4AL16ME064	SACHIN B U	✓	✓	✓	✓	A	✓	✓	✓	✓	A
66.	4AL16ME065	SAGAR M	A	✓	A	✓	✓	✓	✓	✓	A	✓
67.	4AL16ME066	SANJAY S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
68.	4AL16ME067	SANTHOSH G B	✓	✓	✓	✓	✓	✓	✓	A	✓	✓
69.	4AL16ME068	SANTHOSH C	✓	A	✓	✓	✓	✓	✓	✓	✓	A
70.	4AL16ME069	SHAIK MOHAMAD S	✓	✓	✓	✓	✓	✓	✓	✓	A	✓
71.	4AL16ME070	SHETTY ADIT ARVIND	✓	✓	✓	✓	✓	✓	✓	✓	✓	A

Coordinator

HOD



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72.	4AL16ME072	SHETTY GAURAV R	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
73.	4AL16ME073	SHETTY MANOJ M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
74.	4AL16ME074	SHETTY PRANAY R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
75.	4AL16ME076	SHETTY ROHITH J	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
76.	4AL16ME077	SHIKHAR V RAJ JAIN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A
77.	4AL16ME078	SHIVAKUMAR KATARAKI	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓
78.	4AL16ME080	SOHAN POOJARI S S	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓
79.	4AL16ME081	SONAL TOMY	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
80.	4AL16ME082	SOUFIA N SHAIKH	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓
81.	4AL16ME084	SUDHEERA	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓
82.	4AL17ME080	TAJUDDIN H I	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
83.	4AL17ME081	DHAXITH THACHERY	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓
84.	4AL17ME083	VEENA V	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓
85.	4AL17ME084	VIGNESH K R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A
86.	4AL17ME085	VIGNESH PS	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓
87.	4AL17ME086	VIKAS SK	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓
88.	4AL17ME087	VINEETH.R.SHETTY	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓
89.	4AL17ME088	VINODRAJ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A
90.	4AL17ME089	VIRESH B SIRIMANI	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓
91.	4AL17ME090	VISHAL S	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓
92.	4AL17ME092	CHANDRIKA M	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
93.	4AL17ME093	ASHA N B	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	A
94.	4AL17ME700	AMARA N S	✓	✓	✓	A	✓	✓	✓	✓	A	✓	✓	✓
95.	4AL17ME701	ASHISH S SHETTY	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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96.	4AL17ME702	KEERTHINATH B M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
97.	4AL17ME703	PAVAN R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
98.	4AL17ME704	SHANKAR U BHIMARANI	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓
99.	4AL17ME705	SHRIDHAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
100.	4AL17ME706	VARUN S	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓
101.	4AL18ME400	ANAND N B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
102.	4AL18ME401	ANIL KUMAR S	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓
103.	4AL18ME402	ASHISH PINTO	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
104.	4AL18ME403	MALLIKARJUN G	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓
105.	4AL18ME404	MARDANALI G NADAF	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
106.	4AL18ME405	PAVANKUMAR.S	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓
107.	4AL18ME406	SACHIN	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓
108.	4AL18ME407	SANGANABASU GUDOOR	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓
109.	4AL18ME408	SOUJANYA HM	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
110.	4AL18ME409	SUBRAHMANYA. V. BHAT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Coordinator

HoD



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DEPARTMENT OF MECHANICAL ENGINEERING

Quiz on Ansys for Finite Element Analysis Course

1. Finite element method formulation of the problem results in a system of
 - a. algebraic equations
 - b. logical equations
 - c. Arithmetic equations
 - d. flow equations
2. FEM gives accurate representation of
 - a. real geometry
 - b. complex geometry
 - c. real and complex geometry
 - d. constant geometry
3. Finite element method is also called
 - a. infinite element analysis
 - b. frequency element analysis
 - c. finite element analysis
 - d. partial element analysis
4. Numerical algorithms are based on
 - a. FEM and FDTD
 - b. FEM and IFEM
 - c. TD and FD
 - d. FEM and FD
5. To solve the FEM problem, it subdivides a large problem into smaller, simpler parts that are called
 - a. finite elements
 - b. infinite elements
 - c. dynamic elements
 - d. static elements
6. In finite element analysis, a solid is modelled with infinite degrees of freedom
 - a. True
 - b. False
7. Shape functions are
 - a. Exponential functions
 - b. Dynamic functions
 - c. Interpolating polynomials
 - d. None of the above
8. the stress tensor for plane stress condition is a ----- matrix
 - a. Two by two
 - b. Three by three
 - c. Four by four
 - d. Six by six
9. Each node of a one -dimensional frame element has ----- degrees of freedom
 - a) Two ; b) three; C) four; d) None of the above
10. Linear static structural analysis means -----
 - a. Shape functions are linear
 - b. Deflection is a linear function
 - c. There is no deformation
 - d. Stresses are elastic
11. Flexibility matrix approach is used in
 - a. Displacement method
 - b. Stress method
 - c. Force method
 - d. Mixed method
12. Displacement method of FEM for structural analysis gives
 - a. Stiffness matrix
 - b. Flexibility matrix
 - c. Conductance matrix
 - d. Mixed matrix
13. Hybrid methods is best suited for problems with prescribed
 - a. Displacements
 - b. Forces
 - c. Stresses
 - d. Temperature
14. Displacement method is based on minimum
 - a. Potential energy
 - b. Strain energy
 - c. Complementary strain energy



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- d. Work done
- 15. The solution by FEM is
 - a. Always exact
 - b. Mostly approximate
 - c. Sometimes exact
 - d. Never exact
- 16. Discrete analysis cover
 - a. All 2-D trusses and frames
 - b. All 3D trusses and frames
 - c. All 2D and 3D trusses and frames
 - d. No trusses only frames
- 17. variation principle is the basis for
 - a. Displacement method
 - b. Weighted residual
 - c. Finite difference method
 - d. Finite volume method
- 18. Primary variable in FEM structural analysis is
 - a. Displacement
 - b. Force
 - c. Stress
 - d. Strain
- 19. FEM is a generalization of
 - a. Rayleigh ritz method
 - b. Weighted residual method
 - c. Finite difference method
 - d. Finite volume method
- 20. One possible load in structural analysis is the specified
 - a. Nodal temperature
 - b. Stress in and element
 - c. Heat flow
 - d. Strain in an element



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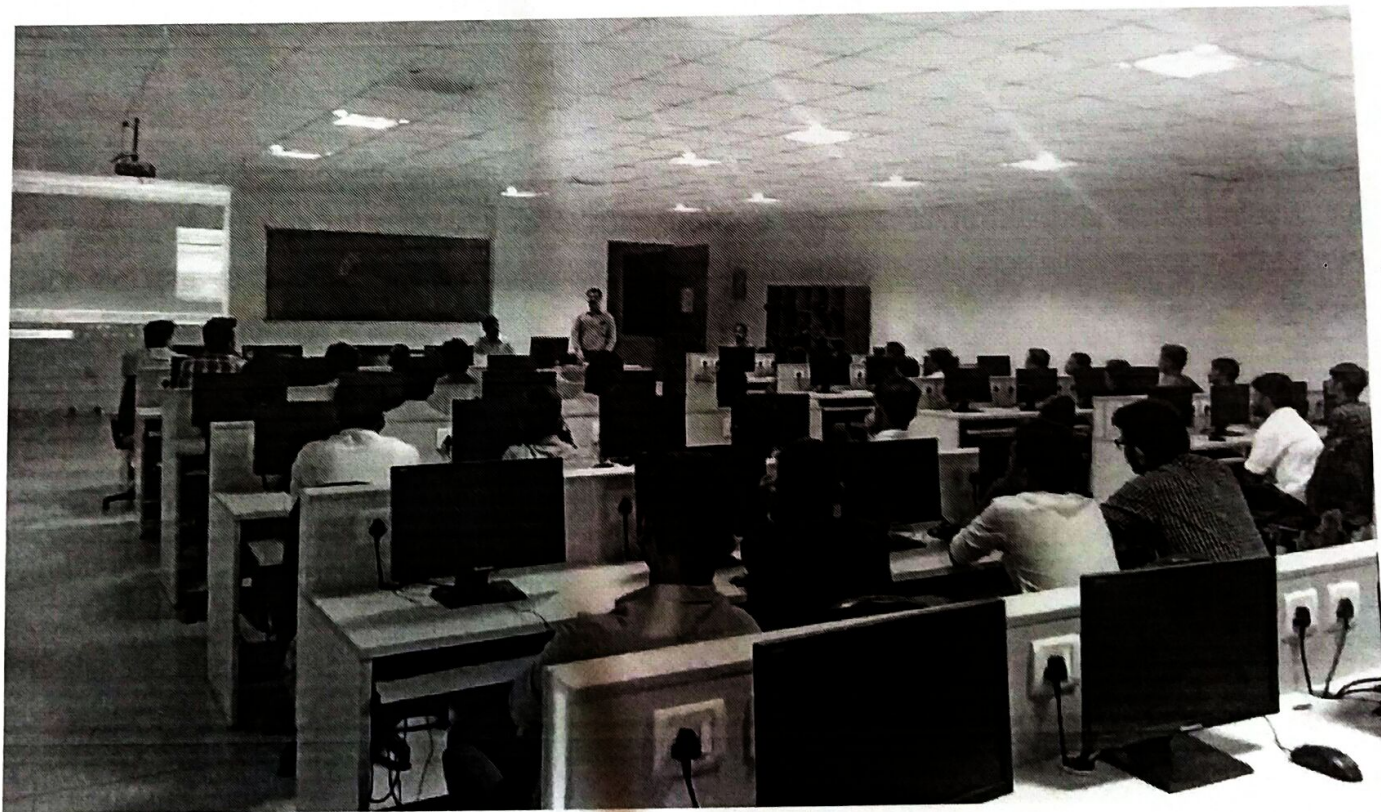
DEPARTMENT OF MECHANICAL ENGINEERING

Report on Ansys for Finite Element Analysis

The department of ME conducted a Five Days hands on students training program for the students of ME from 09-07-2018 to 13-07-2018 on "Ansys for Finite Element Analysis" at AIET Moodbidri.

Mr. Kiran C H & Mr. Thrivikram P, Department of Mechanical Engineering AIET, Moodbidri delivered a comprehensive and in depth information about the Fundamentals Ansys for Finite Element Analysis, Techniques, Applications. Participants have enthusiastically participated and learnt the application building.

Photo





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DEPARTMENT OF MECHANICAL ENGINEERING

FEEDBACK FORM

Five days Students Training Program

On

"Ansys for Finite Element Analysis"

For the following areas, please indicate your rating from 1 to 5:

1=strongly Disagree 2=Disagree 3=neither agree nor disagree 4=Agree 5=strongly Agree

SN	Topics	1	2	3	4	5
A.	Content					
1	Understood the basics of Ansys					✓
2	Understood the fundamental of FEA					✓
3	Able to apply the mathematical techniques for the problems at the hand.					✓
4	Understood the fundamentals of materials to apply real time problem					✓
5	Able to do practical and real time application				✓	
B	Presentation					
6	Instructor's knowledge					✓
7	Instructor's presentation style					✓
8	Instructor covered material clearly					✓
9	Instructor responded well to questions					✓
10	Instructor facilitated interactions among participants well					✓
C. How could this workshop be improved? — NIL —						
D. Any other comments or suggestions? — NIL —						
E. Overall, how would you rate this workshop?						
<input type="checkbox"/>	Poor	<input type="checkbox"/>	Good			
<input type="checkbox"/>	Neither Good Nor Poor	<input checked="" type="checkbox"/>	Excellent			



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DEPARTMENT MECHANICAL ENGINEERING

Certificate

*This is to certify that Mr./Ms.....bearing the
USN from has attended
the Students Workshop Program on “ANSYS FOR FEA
” from 9 JULY 2018 to 13 JULY 2018*

Mr. Hemanth S
Coordinator

Head of the Department
Mechanical Engineering

Dr. Peter Fernandes
Principal
AIET Moodbidri