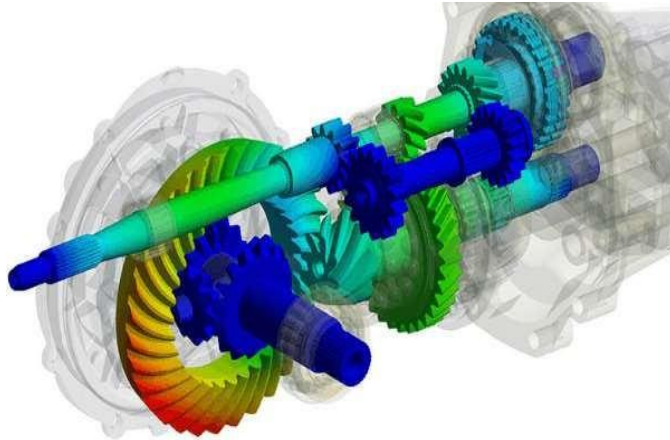




A Certificate Course
on

ANSYS mechanical workbench

From 2nd JAN 2024 to 6th JAN 2024



ORGANIZED BY

DEPARTMENT OF MECHANICAL ENGINEERING

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY,

(Approved by AICTE, Permanently Affiliated to JNTUGV, VIZAYANAGARAM,
ACCREDITED BY NAAC and Recognized under 2(f) & 12(b) by UGC New Delhi)
Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

AVANTHI EDUCATIONAL SOCIETY

Avanthi Educational Society under the Leadership of Sri M. Srinivasa Rao garu as chairman was started in the Year 1991. Within a short span of its establishment, the group has made a remarkable stride in the field of education offering various courses at Under Graduate, Post Graduate, Pharmacy & Engineering levels. This milestone is achieved as the institution carved itself to impart quality and career oriented education, countering the challenges of the modern world through planning, dedication, determination, prompt execution and with the innovative ideas of our advisory board.

Today, Avanthi Educational Society is proud to have a strength of over 16000 students with 15 institutions under its ambit. It is the path of glory towards the success during the last 19 years. The institution has been adjudged many times as the second-best educational institutions in the twin cities and 16th best in all over India through the impartial survey made by the renowned magazine "India Today".

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

AIET started in the year 1999 and offers various courses at Engineering and PG level. The college is providing with rooms, computer centre, laboratories and seminar hall with audio-visual equipments. Industry Institute interaction is conducted regularly to emphasize on the latest trends in the present market.



It is very near to Narsipatnam. Frequent bus facilities are available both from and to Visakhapatnam and Narsipatnam .Very safe and secure hostel facility is available for Girl students. These are the additional facilities besides excellent academic atmosphere in the college campus.

DEPARTMENT OF MECHANICAL ENGINEERING

Mechanical Engineering department was started in the year 2005 with intake strength of 60 seats, this was increased to 120 students in 2012 and this was increased to 180 students in 2013. The department has well qualified and trained faculty members. It has well equipped laboratories and workshops and includes a CAD/CAM laboratory where students are imparted training in advanced production techniques and design and analysis of machine elements.

The department of Mechanical Engineering has been contributing its humble share of the Mechanical Engineering graduates for national needs. Several of the graduates who have passed out of this department are occupying responsible positions in various Engineering Industries like Hindustan Shipyard Limited, Renault Nissan, Varun Motors, Tata Consultancy Services, HP and IBM and holding responsible positions in the premier educational institutes in and outside India.

ABOUT WORKSHOP

This course is in an **example-based format** for Finite Element Analysis, including various examples for **1DTruss, 2DTruss, 3DTruss, 2Dplane stress, 2Dplane strain, and 3D solid** elements. In each example, first, **key formulations are provided** to summary the theories. Next, you will be clearly instructed to **write your FEM codes, ANSYS scripts**. Every line of code will be clearly explained. After that, detailed instructions to **extract results (displacements, stress, strain)** from ANSYS and your FEM codes are provided. From there, you will learn how to make comprehensive comparisons between your FEM results and ANSYS to verify your codes and understanding. This will be the best way to prove your understanding and knowledge.

Also, by practicing the examples, you can achieve very good or advanced coding skills in MATLAB and scripting in ANSYS.

TOPICS TO BE COVERED

- Key Formulations in FEA: Truss elements (1D, 2D, 3D), 2D plate (plane strain, plane stress) and 3D Solid elements.
- Practical coding skills in MATLAB for FEA of 1D, 2D, and 3D structures
- Mesh control ,multi-step analysis ,harmonic analysis
- Advanced skills in writing APDL scripts for Finite Element Analyses
- Basic geometry control, assigning conditions and processing the results
- Basic contact formulations, modal analysis for all FEA examples are available for freely download and modify for future study

For Registration, please contact Mrs .K. Sandhya , Assistant Professor, Department of Mechanical Engineering.

CHIEFPATRON

Smt.M. Gnaneswari President ,
Avanthi Educational Society

PATRON

Dr. CPVNJ MohanRao Principal,
Avanthi Institute of Engineering And Technology

CHAIRMAN

Dr. V. Harikiran
HOD of Mechanical Engineering

COORDINATOR

Mrs.K. Sandhya
Asst.Proffessor



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, Permanently Affiliated to JNTUG VIZAYANAGARAM
NAAC Accredited with A+ grade and recognized under 2(f)&12(b) by UCG New Delhi)
Tamaram (V), Makavarapalem, Narsipatnam (RD), Anakapalle Dist, Pin-531113.

DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

Date : 26/12/2023

We are happy to inform you that, Department of Mechanical Engineering, AIET is organizing day certificate course on "ANSYS Mechanical work bench" from 2nd January 2024 to 6th January 2024 in physical mode for all IV B. Tech students. Interested candidates directly to enroll above course on or before 01/01/2024. For further details contact Course Coordinator Mrs .K. Sandhya, Assistant Professor, Mechanical Engineering.

Resource Person Details:

1. Mr P Ramakrishna
CEO
Bench mark solutions
Visakhapatnam
2. Mr D.Gopi
Bench mark solutions
Visakhapatnam

Dr. V. Hari kiran
HOD
Mechanical Department

Head of the Department
Department of Mechanical Engg.
Avanthi Institute of Engg. & Tech.,
Makavarapalem, Anakapalli Dt. -531113

Copy to: Principal, AIET



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, Permanently Affiliated to JNTUG VIZAYANAGARAM
NAAC Accredited with A+ grade and recognized under 2(f)&12(b) by UCG New Delhi)
Tamaram (V), Makavarapalem, Narsipatnam (RD), Anakapalle Dist, Pin-531113.

DEPARTMENT OF MECHANICAL ENGINEERING

A five -day workshop on
ANSYS mechanical work bench
2nd JAN 2024 to 6th JAN 2024

Syllabus of the Workshop:

Chapter-1

- Introduction about the workshop and ANSYS Fundamentals, Various types of tools in ANSYS and their applications

Chapter-2

- ANSYS Mechanical for Finite Element Analysis, ID, 2D and 3D Elements with examples of ANSYS

Elements Chapter-3

- Introduction to the ANSYS GUI ,Enlisting different FEM methods and detailed explanation and their structural analysis

Chapter-4

- Introduction to Non-Linear Analysis, Coupling & Constraint Equations, Boundary conditions, Basic contact formulations

Chapter-5

- Material Properties, Material Library, specifying properties, assigning conditions and processing the results, types of Loads, Applying loads

Chapter-6

- Static Structural Analysis ,harmonic analysis & Thermal Analysis

EXPECTED OUTCOMES

- To understand how to create a 2D in ANSYS
- Mesh control, Multi-step analysis and diagnostics
- Create a 2D model using Material Library.
- Modal analysis and Harmonic analysis
- Analysis of Loads under Static and Thermal Analysis.

COOEDINATOR

HOD

Head of the Department
Department of Mechanical Engg.
Avanthi Institute of Engg. & Tech.,
Makavarapalem, Anakapalli Dt. -531113



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, Permanently Affiliated to JNTUG VIZAYANAGARAM
NAAC Accredited with A+ grade and recognized under 2(f)&12(b) by UCG New Delhi)
Tamaram (V), Makavarapalem, Narsipatnam (RD), Anakapalle Dist, Pin-531113.

DEPARTMENT OF MECHANICAL ENGINEERING

ANSYS MECHANICAL WORKBENCH

2nd JAN 2024 to 6th JAN 2024

Schedule

Day-1 (2/01/2024)

09:00AM-09:30AM - Inaugural Session & addressing the Guests

09:30AM-11:00AM - Introduction about the workshop and ANSYS Fundamentals

11:00 AM-11:15AM-Tea Break

11:15AM-1:15PM - usage of various types of tools in ANSYS and their applications and create, save various types of ANSYS documents.

1:15PM-02:15PM - Lunch Break

02:15PM-04:00PM - Explanation about Differentiate and switch between a selection of Materials and Properties. Perform various tasks concerning design parameters and geometry selection

Day-2 (3/01/2024)

09:00AM-09:30 AM - ANSYS Mechanical for Finite Element Analysis

09.30AM-11:00AM - FEA and ANSYS Mechanical Static structural analysis, developing a complete analysis model

11:00AM-11:15AM -Tea Break

11:15AM-1:15PM-Explanation of 1D, 2D and 3D Elements with examples of ANSYS

Elements 1:15PM-02:15PM - Lunch Break

02:15PM-04:00PM Enlisting different FEM methods and detailed explanation of any one, Introduction to the ANSYS GUI

Day-3 (4/01/2024)

09:00AM-09:30AM - Introduction to Non-Linear Analysis

09:30AM-11:00AM - Using the Toolbar & Creating Abbreviations

11:00AM-11:15AM- Tea Break

11:15AM-1:15PM-Coupling & Constraint Equations

1:15PM-02:15PM - Lunch Break

02:15PM-04:00PM - Beam Modelling and Practice Session

Day-4 (5/01/2024)

09:00AM-09:30AM -model Basic geometry control, Import& export for developing a complete analysis

09:30AM-11:00AM - An Overview of ANSYS designing

11:00AM-11:15AM-Tea Break

11:15AM-1:15PM- Working with Boolean operations

1:15PM-02:15PM Lunch Break

02:15PM-04:00PM -Working Plane, importing of 3D models, The ANSYS Mesh Tool, Smart sizing Meshing m. Free Meshing

Day-5 (6/01/2024)

09:00AM-09:30AM 09:30AM-11:00AM Assigning conditions and validate results Modal Analysis 11:00AM-11:15AM- Tea Break Workshops, Exercises and Case Studies

11:15AM-1:15PM - Processing the results.

1:15PM-02:15PM - Lunch Break

02:15PM-04:00PM- Workshops, Exercises and Case Studies and Practice Session, Valedictory Session


COORDINATOR


HOD

Head of the Department
Department of Mechanical Engg.
Avanhi Institute of Engg. & Tech.,
Makavarapalem, Anakapalli Dt. -531113



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, Permanently Affiliated to JNTUG VIZAYANAGARAM
 NAAC Accredited with A+ grade and recognized under 2(f)&12(b) by UCGNewDelhi)
 Tamaram (V), Makavarapalem, Narsipatnam (RD), Anakapalle Dist, Pin-531113.

DEPARTMENT OF MECHANICAL ENGINEERING
 Workshop on "ANSYS MECHANICAL WORKBENCH
 From 2nd JAN 2024 to 6th JAN 2024
 IV B.TECH MECH Students Attendance list

| S.NO | ROLL NO. | NAME OF THE STUDENT | 2/1 | 3/1 | 4/1 | 5/1 | 6/1 |
|------|------------|-------------------------------------|-----|-----|-----|-----|-----|
| 1 | 20811A0302 | ADARI SAI TEJA | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2 | 20811A0303 | AMME SAMIL SURAJ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3 | 20811A0304 | APPANA LAXMANA KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4 | 20811A0305 | ARJILLI MAHESH | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5 | 20811A0306 | BANDANGI DHANUNJAYA NAIDU | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6 | 20811A0307 | BODDETI PAVAN KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7 | 20811A0309 | CHADALAVA ROHITH | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8 | 20811A0310 | CHEEDI SAI KRISHNA | ✓ | ✓ | ✓ | ✓ | ✓ |
| 9 | 20811A0311 | DUNGALA SRINIVAS | ✓ | ✓ | ✓ | ✓ | ✓ |
| 10 | 20811A0312 | GORLI VENKATA RAMA KRISHNA | ✓ | ✗ | ✓ | ✓ | ✓ |
| 11 | 20811A0313 | JAJULA POORNA CHANDRA | ✓ | ✓ | ✓ | ✓ | ✓ |
| 12 | 20811A0314 | JERRIPOTHULA PAVAN KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13 | 20811A0315 | KAMIREDDI RAJESH | ✓ | ✓ | ✓ | ✓ | ✗ |
| 14 | 20811A0316 | KANDREDDY DILEEP | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15 | 20811A0317 | KARIMI DILIP KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ |
| 16 | 20811A0318 | KARRI KALI VARA PRASAD | ✓ | ✓ | ✓ | ✓ | ✓ |
| 17 | 20811A0319 | KASETTY VENKATESH | ✓ | ✓ | ✓ | ✓ | ✓ |
| 18 | 20811A0320 | MADDU DEVARA SURYA RAJA PRASAD | ✓ | ✓ | ✓ | ✓ | ✓ |
| 19 | 20811A0321 | MAJJI GOPI KRISHNA | ✓ | ✓ | ✓ | ✓ | ✓ |
| 20 | 20811A0322 | MAJJI SHANMUK VENKATA SATYANARAYANA | ✓ | ✓ | ✓ | ✓ | ✓ |
| 21 | 20811A0323 | MOGILI GANESH | ✓ | ✓ | ✓ | ✗ | ✓ |
| 22 | 20811A0324 | MOGILI SUDHEER KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ |
| 23 | 20811A0326 | NAKKA VENU | ✓ | ✓ | ✓ | ✓ | ✓ |
| 24 | 20811A0327 | NAMBARU DEVI SIVA SHANKAR PRASAD | ✓ | ✗ | ✓ | ✓ | ✓ |
| 25 | 20811A0328 | NAVEEN PRASAD BALLA | ✓ | ✓ | ✓ | ✓ | ✓ |
| 26 | 20811A0329 | NOTLA SURESH | ✓ | ✓ | ✓ | ✓ | ✓ |
| 27 | 20811A0330 | PAGOTI JAGADEESH | ✓ | ✓ | ✓ | ✓ | ✓ |
| 28 | 20811A0331 | PATCHIPULUSU GANESH | ✓ | ✓ | ✓ | ✓ | ✓ |
| 29 | 20811A0332 | POTHALA KIRAN KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ |
| 30 | 20811A0333 | YARRA RAVINDRA | ✓ | ✓ | ✓ | ✓ | ✓ |
| 31 | 20811A0334 | RUTTALA PAVAN | ✓ | ✓ | ✓ | ✓ | ✓ |
| 32 | 20811A0335 | SALAPU CHAITANYA SAI | ✓ | ✓ | ✓ | ✓ | ✓ |
| 33 | 20811A0336 | SHAIK SAMEER | ✓ | ✓ | ✓ | ✓ | ✓ |
| 34 | 20811A0337 | SINGAMPALLI MANIKANTA | ✓ | ✓ | ✓ | ✓ | ✓ |

| | | | | | | | |
|----|------------|---|---|---|---|---|---|
| 35 | 20811A0338 | SIYADRI SATYASAI | / | / | / | / | / |
| 36 | 20811A0339 | SURYA PRAKASH REDDY | / | / | / | / | / |
| 37 | 20811A0340 | THOTA VENKATA BALA SUBRAMANYAM | / | / | / | / | / |
| 38 | 20811A0341 | THYHADI NEERAJ | / | / | / | / | / |
| 39 | 20811A0342 | VATTURI VIJAYA ADITYA ROHITH | / | / | / | / | / |
| 40 | 20811A0343 | VAYIBOYINA SRI SIVA RAMA KRISHNA PREMJEE | / | / | / | / | / |
| 41 | 20811A0344 | METTA CHARAN KUMAR REDDY | / | / | X | / | / |
| 42 | 20811A0345 | VANAMICHETTI SAGAR | / | / | / | / | / |
| 43 | 20811A0346 | NAGIREDDY MANIKANTA | / | / | / | / | / |
| 44 | 21815A0301 | ADARI AJAY | / | / | / | / | / |
| 45 | 21815A0302 | ALLA SHANMUKH | / | / | / | / | / |
| 46 | 21815A0303 | ALUGOLU GANESH | / | / | / | / | / |
| 47 | 21815A0304 | YENNETI LAXMI NARAYANA | / | / | / | / | / |
| 48 | 21815A0305 | BALIVADA SARAN | / | / | / | / | / |
| 49 | 21815A0306 | BAMMIDI OMSAI | / | / | / | / | / |
| 50 | 21815A0307 | CHAVAKULA SAI MANIKANTA | / | / | / | X | / |
| 51 | 21815A0308 | CHEEDA CHAITANYA KUMAR | / | / | / | / | / |
| 52 | 21815A0309 | CHENNUPATI DEEPHANUSH | / | / | / | / | / |
| 53 | 21815A0310 | DUKKA SAI VAMSI | / | / | / | / | / |
| 54 | 21815A0312 | GADI RATNA KAMAL | / | / | / | / | / |
| 55 | 21815A0313 | GADUTHURI GOWTHAM RAJU | / | / | / | / | / |
| 56 | 21815A0314 | GANDU VEERA MANIKANTA | / | / | / | / | / |
| 57 | 21815A0315 | GEDDADA JYOTHI KRISHNA PRADEEP | / | X | / | / | / |
| 58 | 21815A0316 | GONDESI MANI KUMAR | / | / | / | / | / |
| 59 | 21815A0318 | GULLA VIVEK | / | / | / | / | / |
| 60 | 21815A0319 | JUTTU GANESH | / | / | / | / | / |
| 61 | 21815A0320 | KAMPATI LAKSHMI SRINIVAS | / | / | / | / | / |
| 62 | 21815A0321 | KANDREGULA RAM JAGADEESH | / | / | X | / | / |
| 63 | 21815A0322 | KONETI SATYA SIVA SAI | / | / | / | / | / |
| 64 | 21815A0323 | KUNCHA SANTOSH | / | / | / | / | / |
| 65 | 21815A0324 | KURAKULA GOWTHAM | / | / | / | / | / |
| 66 | 21815A0325 | MAMIDI GUNNAYYA BABU | / | / | / | / | / |
| 67 | 21815A0326 | MATTAM GOVARDHAN NAIDU | / | / | / | / | / |
| 68 | 21815A0327 | MUDUNURU SAI ADITYA | / | / | / | / | / |
| 69 | 21815A0328 | NADIMPALLI VENKATANARASIMHA RAJU | / | / | / | / | / |
| 70 | 21815A0329 | NAKKINA JAYA SAI VINAY | / | / | / | / | / |
| 71 | 21815A0330 | NALLA SIDDHU KUMAR | / | / | / | / | / |
| 72 | 21815A0331 | NAMBALA SITHARAM | / | / | / | / | / |
| 73 | 21815A0332 | NANDIPALLI SAI VIVEK | / | / | / | / | / |
| 74 | 21815A0333 | PALLAM APUROOP SAI | / | / | / | / | / |
| 75 | 21815A0334 | PEDAGADI SAI KUMAR | / | / | / | / | / |
| 76 | 21815A0335 | PEETHA VENKATESH | / | / | / | / | / |
| 77 | 21815A0336 | PENUMARTHI RAJ KUMAR | / | / | / | / | / |

| | | | | | | | |
|-----|------------|------------------------------------|---|---|---|---|---|
| 78 | 21815A0337 | PIRADI DHANARAJU | ✓ | ✓ | ✓ | ✓ | ✓ |
| 79 | 21815A0338 | POLIMERA PAVAN KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ |
| 80 | 21815A0339 | BADRI MAHESWARI | ✓ | ✓ | ✓ | ✓ | ✓ |
| 81 | 21815A0340 | SENAPATHI RATHI DEVI | ✓ | X | ✓ | ✓ | ✓ |
| 82 | 21815A0341 | SUGGU CHAITANYA REDDY | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8 | 21815A0342 | TAMALAPAKULA JOEL MATHEW | ✓ | ✓ | ✓ | ✓ | ✓ |
| 84 | 21815A0343 | TAMARANA GANESH | ✓ | ✓ | ✓ | ✓ | X |
| 85 | 21815A0344 | TIPPANA SAI MANIKANTA | ✓ | ✓ | ✓ | ✓ | ✓ |
| 86 | 21815A0345 | YARRAMSETTI VAMSI KRISHNA | ✓ | ✓ | X | ✓ | ✓ |
| 87 | 21815A0346 | YELLAPU KOMAL RAM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 88 | 21815A0347 | PALAKA BADRINATH | ✓ | ✓ | ✓ | ✓ | ✓ |
| 89 | 21815A0348 | VENKAT ANAND CHADARAM | ✓ | ✓ | ✓ | ✓ | ✓ |
| 90 | 21815A0349 | GANGIREDLA SIVA GANESH | ✓ | ✓ | ✓ | X | ✓ |
| 91 | 21815A0350 | JANAPALA SAI CHARAN KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ |
| 92 | 21815A0351 | KARANAM MOHAN DURGA PRASAD | ✓ | ✓ | ✓ | ✓ | ✓ |
| 93 | 21815A0352 | KINTHADA MANOJ KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ |
| 94 | 21815A0353 | LEKKALA VENU GOPALA SWAMY | ✓ | X | ✓ | ✓ | ✓ |
| 95 | 21815A0354 | MADABATHULA BHAVANA RUSHI | ✓ | ✓ | ✓ | ✓ | X |
| 96 | 21815A0355 | M.NAVEEN KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ |
| 97 | 21815A0356 | RAI ASHOK | ✓ | ✓ | ✓ | ✓ | ✓ |
| 98 | 21815A0357 | MOHAMMAD JAFAR SIDDIK | ✓ | ✓ | ✓ | X | ✓ |
| 99 | 21815A0358 | NAGIREDDY SANJAY | ✓ | ✓ | ✓ | ✓ | ✓ |
| 100 | 21815A0359 | NAKKA JAYA PRASANTH KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ |
| 101 | 21815A0360 | NAMMI LATHAN CHAND | ✓ | ✓ | ✓ | ✓ | ✓ |
| 102 | 21815A0361 | RUTTALA MEGHANA | ✓ | ✓ | ✓ | ✓ | ✓ |
| 103 | 21815A0362 | SIDDHABATTHULA SIDDHU | ✓ | ✓ | ✓ | ✓ | ✓ |
| 104 | 21815A0363 | SRIPATHI SAI VAMSI | ✓ | ✓ | ✓ | ✓ | ✓ |
| 105 | 21815A0364 | VEDURUPARTHI MANOJ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 106 | 21815A0365 | VINDULA SAI ANANTH LOHITH KUMAR | ✓ | ✓ | ✓ | ✓ | ✓ |
| 107 | 21815A0366 | MALLA PRADEEP | ✓ | ✓ | ✓ | ✓ | ✓ |


COORDINATOR


HOD

Head of the Department
Department of Mechanical Engg.
Sri Ananthi Institute of Engg. & Tech.,
Kavarepalem, Anakapalli Dt. -531113

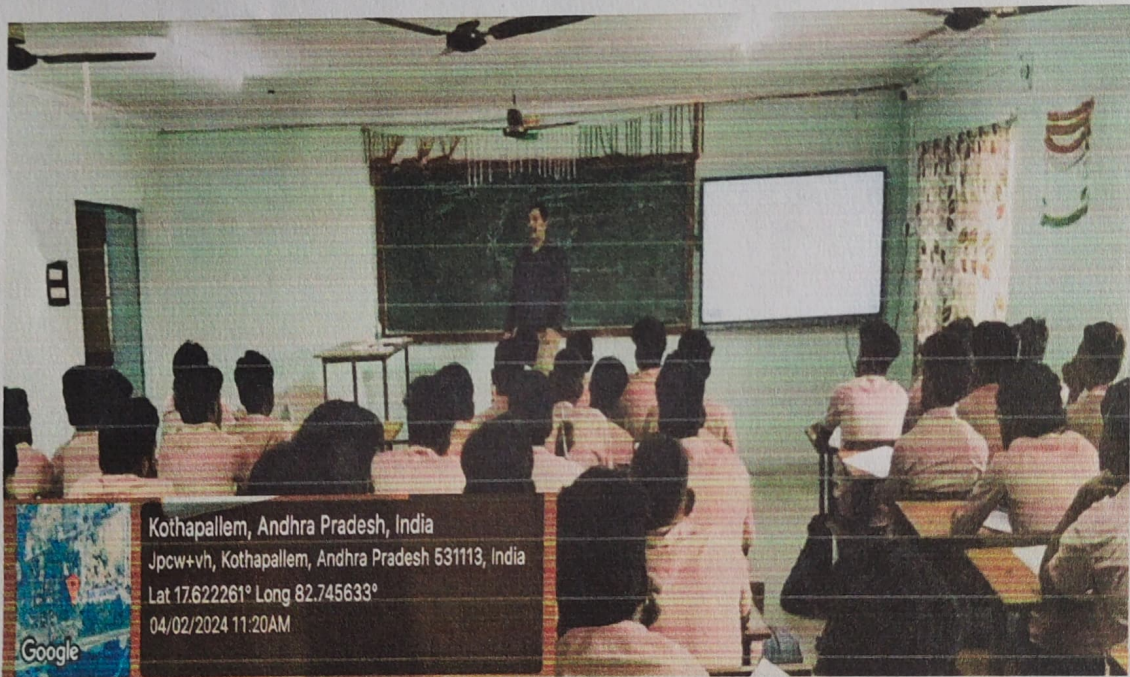


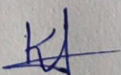
AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, Permanently Affiliated to JNTUG VIZAYANAGARAM
NAAC Accredited with A+ grade and recognized under 2(f)&12(b) by UCG New Delhi)
Tamaram (V), Makavarapalem, Narsipatnam (RD), Anakapalle Dist, Pin-531113.


DEPARTMENT OF MECHANICAL ENGINEERING

ANSYS MECHANICAL WORKBENCH

2nd JAN 2024 to 6th JAN 2024




COORDINATOR


HOD

Head of the Department
Department of Mechanical Engg.
Avanthi Institute of Engg. & Tech.,
Makavarapalem, Anakapalli Dt. -531113



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, Permanently Affiliated to JNTU G, Vizianagaram,
ACCREDITED BY NAAC and Recognized under 2(f) & 12 (b) by UGC, New Delhi)
Tamaram, Makavarapalem, Narsipatnam (RD), Anakapalli-531113

Certificate of Participation

This is to certify that Mr./Ms. _____ of
_____ has participated in the Certificate Course
entitled on “**ANSYS MECHANICAL WORKBENCH**” during from 2nd January 2024
to 6th January 2024. was organised by the Department of MECHANICAL
ENGINEERING at Avanathi Institute of Engineering and Technology

Coordinator

HOD

Principal



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, Permanently Affiliated to JNTUG VIZAYANAGARAM
NAAC Accredited with A+ grade and recognized under 2(f)&12(b) by UCG New Delhi)
Tamaram (V), Makavarapalem, Narsipatnam (RD), Anakapalle Dist, Pin-531113.

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 10/01/2024

BRIEF REPORT

Department of Mechanical Engineering, Avanthi Institute of Engineering and Technology had organized a certificate course on **ANSYS MECHANICAL WORKBENCH** 2nd JAN 2024 to 6th JAN 2024

We had Mr. P Rama Krishna, CEO Bench mark solutions Visakhapatnam. The speaker to explain each and every detail about ANSYS and its fundamentals. He started off with upcoming need ANSYS mechanical for finite element analysis and the plus points of this technology. One of the major advantages is that it provides high-performance, automated meshing software. He also explained the limitations that it needs large amount of data is required as input for the mesh used in terms of nodal connectivity and other parameters depending on the problem. These are generally used for Biomedical Applications, Plate Dynamics, Industrial and Business Management. Some of the topics are focused during course are thermal analysis, key formulation, practical coding skills, boundary conditions, multi-step analysis. modal analysis, harmonic analysis. Finally, he concluded the real time applications of Finite element Analysis and how it is utilized in mechanical related industries.


COORDINATOR


HOD

Head of the Department
Department of Mechanical Engg.
Avanthi Institute of Engg. & Tech.,
Makavarapalem, Anakapalli Dt. -531113