



PVKK INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to JNTUA, Anantapuramu.
(Established under Sri Balaji Educational Society, Anantapuramu)

Department of Mechanical Engineering

CIRCULAR

Date: 22-02-2019

Department of ME in association with "INUBE" is organizing a one-week Faculty Development Program on "Finite Element Analysis and Simulation" during 04-03-2019 to 08-03-2019. To register for this FDP contact convener L. Balasubramnyam, Phone Number- 8886630025. Limited Seats Available for the Program and the selection is based on First Come First Serve basis.

Resource Persons/ Speakers:

| Name of the Person | Designation |
|----------------------|-----------------------------------------------------|
| Dr. E.V. Subba Reddy | Professor, G. Pullaiah Engineering college, Kurnool |

Venue: ME Department Seminar Hall, PVKKIT.

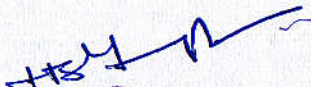
Timings: 9:30 A.M to 1:00 P.M

1.00.PM to 2.00 PM -Lunch Break

2:00 P.M to 4:30 P.M

Copy to:

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3. Class in – Charges
4. Dept. File
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Department of Mechanical Engineering

Report on Faculty Development Program

| | | | |
|-------------------------------|-------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------|
| Academic Year | 2018-19 | Venue | ME Department Seminar Hall, PVKKIT |
| Name of the Course | One Week FDP on "Finite Element Analysis and Simulation" in Association with INUBE. | Duration | One week |
| Trainer | Dr. E.V. Subba Reddy Professor, G.Pullaiah Engineering college, Kurnool | Date | 04-03-2019 to 08-03-2019 |
| Faculty Co-Ordinator 1 | Ms. C. Triveni | Time | FN-9:30AM to 1:00PM AN-2:00PM to 4:30PM |
| Faculty Co-Ordinator 2 | Mr. S. Jithendra Naik | Total Sessions/Total Hours | 30 Hours |
| Convener | Mr. L. Balasubramnayam | | |

Aim of the programme:

Finite Element Analysis (FEA) and Simulation, refers to a field in engineering where mathematical methods are used to approximate and analyze the behavior of complex structures and systems. This technique is widely used in various engineering disciplines such as mechanical engineering, civil engineering, aerospace engineering, and more.

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The main objectives of this FDP are:

- To understand how structures and systems behave under different conditions (e.g., loads, temperature changes, fluid flow) and to predict their response accurately.
- To optimize the design of components and systems for specific criteria such as weight, cost, strength, or performance.
- To minimize the need for physical prototypes by validating designs virtually.
- To identify potential issues and weaknesses in the design before production.
- To study complex physical phenomena like fluid dynamics, heat transfer, and electromagnetic interactions.
- To foster innovation by enabling engineers to explore unconventional and innovative designs.

Indicative Topics:

- Introduction to Finite Element Analysis (FEA)
- Mathematics and Numerical Methods
- Fundamentals of Finite Element Method (FEM)
- Structural Analysis
- Heat Transfer Analysis
- Fluid Dynamics Simulation
- Multiphysics Simulation
- Mesh Generation and Preprocessing
- Boundary Conditions and Constraints
- Post-Processing and Result Interpretation
- Optimization and Design Exploration
- Practical Applications and Case Studies
- Software Tools and Hands-on Training

Expected outcomes:

After completion of the FDP, participants

- Participants gain a deep understanding of FEA principles and concepts, enabling them to teach these concepts effectively to students.
- Improved comprehension of numerical methods and their application to real-world engineering problems.

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- Educators develop improved pedagogical methods and instructional techniques for teaching FEA concepts to students.
- Integration of simulation tools into the curriculum, making learning more interactive and engaging for students.
- Researchers can apply advanced simulation techniques to their ongoing projects, leading to more accurate and insightful results.
- Increased ability to explore diverse research areas, including structural mechanics, fluid dynamics, heat transfer, etc., using simulation tools.
- Enhanced skills in FEA and simulation tools make academics more attractive to industries seeking collaborations or partnerships.
- Educators can design industry-relevant projects for students, bridging the gap between academia and industry requirements.
- Understanding FEA opens avenues for interdisciplinary research and collaborations, such as biomedical simulations, environmental modelling, and materials science.

Duration: The duration of this FDP will be 5 consecutive days, with 6 hours per a total of 30 hours properly divided into theory and hands on sessions.

Certification Policy:

- Certificate of Merit for all the FDP participants.
- At the end of this FDP, a small competition will be organized among the participating Faculties and winners will be awarded with a prize.

Signature of the Convener

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Department of Mechanical Engineering

Participants Registration Sheet

1. Title of the Program/ Workshop : One Week FDP on “Finite Element Analysis and Simulation” in Association with INUBE.
2. Date : 04-03-2019 to 08-03-2019
3. Academic Year : 2018-19
4. Venue : Department Seminar Hall
5. Organized by : Department of ME in association with INUBE
6. Convener : Mr. L.Balasubramnayam, HoD, Assoc. Professor of ME

| S. NO | Name of the Faculty | Designation | Name of the Institute | Signature |
|-------|-----------------------|---------------------|-----------------------|-----------|
| 1. | S. Jithendra Naik | Associate Professor | PVKKIT | |
| 2. | D. Harshavardhan | Associate Professor | PVKKIT | |
| 3. | N. Karthikeyan | Assistant Professor | PVKKIT | |
| 4. | U. Mahaboob Basha | Assistant Professor | PVKKIT | |
| 5. | V. Manunatha Reddy | Assistant Professor | PVKKIT | |
| 6. | B. Monika | Assistant Professor | PVKKIT | |
| 7. | C. Triveni | Assistant Professor | PVKKIT | |
| 8. | M. Hari Priya | Assistant Professor | PVKKIT | |
| 9. | K. Manohar Reddy | Assistant Professor | PVKKIT | |
| 10. | R. Jayachandra | Assistant Professor | PVKKIT | |
| 11. | D. Venkatesh | Assistant Professor | PVKKIT | |
| 12. | Y. Indrajya | Assistant Professor | PVKKIT | |
| 13. | D.R. Madhuri | Assistant Professor | PVKKIT | |
| 14. | G. Vani Prathibha | Assistant Professor | PVKKIT | |
| 15. | Badigi Madan Gopal | Assistant Professor | PVKKIT | |
| 16. | K Suresh | Assistant Professor | PVKKIT | |
| 17. | Dr. A. Srikantha Gowd | Professor | PVKKIT | |
| 18. | N Sreenivasulu | Assistant Professor | PVKKIT | |
| 19. | T. Akhil Kumar | Assistant Professor | PVKKIT | |
| 20. | B. Venkat Reddy | Assistant Professor | PVKKIT | |
| 21. | V. Depthi | Assistant Professor | SRIT | |
| 22. | C. Jaypal Reddy | Assistant Professor | SRIT | |
| 23. | M. Usha Rani | Assistant Professor | SRIT | |
| 24. | D. Balaji | Assistant Professor | SRIT | |



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| | | | | |
|-----|-------------------|---------------------|-------|-------------|
| 25. | D. Ajay Kumar Raj | Assistant Professor | SRIT | Ajay |
| 26. | B. Gopal | Assistant Professor | SRIT | B. Gopal |
| 27. | H. Jayappa | Assistant Professor | GATES | Jayappa |
| 28. | U Narasimhulu | Assistant Professor | GATES | Narasimhulu |
| 29. | P Reddy Kalavathi | Assistant Professor | GATES | Kalavathi |
| 30. | G Chandra Sekhar | Assistant Professor | GATES | Chandra |

Convener

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Participants Attendance Sheet

1. Title of the Program/ Workshop : One Week FDP on “Finite Element Analysis and Simulation” in Association with INUBE.
2. Date : 04-03-2019 to 08-03-2019
3. Academic Year : 2018-19
4. Venue : Department Seminar Hall
5. Organized by : Department of ME in association with INUBE
6. Convener : Mr. L.Balasubramnyam, HoD, Assoc. Professor of ME

| S.NO | Name of the Faculty | Name of the Institute | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
|------|-----------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1. | S. Jithendra Naik | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 2. | D. Harshavardhan | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 3. | N. Karthikeyan | PVKKIT | <i>(NK)</i> | <i>(NK)</i> | <i>(NK)</i> | <i>(NK)</i> | <i>(NK)</i> |
| 4. | U. Mahaboob Basha | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 5. | V. Manunatha Reddy | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 6. | B. Monika | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 7. | C. Triveni | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 8. | M. Hari Priya | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 9. | K. Manohar Reddy | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 10. | R. Jayachandra | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 11. | D. Venkatesh | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 12. | Y. Indrajya | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 13. | D.R. Madhuri | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 14. | G. Vani Prathibha | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 15. | Badigi Madan Gopal | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 16. | K Suresh | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 17. | Dr. A. Srikantha Gowd | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 18. | N Sreenivasulu | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 19. | T. Akhil Kumar | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 20. | B. Venkat Reddy | PVKKIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 21. | V. Depthi | SRIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 22. | C. Jaypal Reddy | SRIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 23. | M. Usha Rani | SRIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |

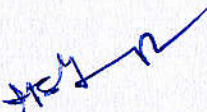
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| | | | | | | | |
|-----|-------------------|------|---------------|---------------|---------------|---------------|---------------|
| 24. | D. Balaji | SRIT | Bala | Bala | Bala | Bala | Bala |
| 25. | D. Ajay Kumar Raj | SRIT | Ajay | Ajay | Ajay | Ajay | Ajay |
| 26. | B. Gopal | SRIT | B. Gopal | B. Gopal | B. Gopal | B. Gopal | B. Gopal |
| 27. | H. Jayappa | GATE | Jayappa | Jayappa | Jayappa | Jayappa | Jayappa |
| 28. | U Narasimhulu | GATE | Narasimhulu | Narasimhulu | Narasimhulu | Narasimhulu | Narasimhulu |
| 29. | P Reddy Kalavathi | GATE | Kalavathi | Kalavathi | Kalavathi | Kalavathi | Kalavathi |
| 30. | G Chandra Sekhar | GATE | Chandrasekhar | Chandrasekhar | Chandrasekhar | Chandrasekhar | Chandrasekhar |


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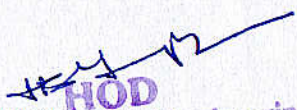
Department of Mechanical Engineering

Date: 08-03-2019

“Faculty Development Program on Finite Element Analysis and Simulation”

Event Feedback Analysis

| S.No | Particulars | Excellent | Very Good | Good | Fair | Poor | Points |
|------|-----------------------------------------------------------------------------------------|------------|-----------|------|------|------|-------------|
| 1 | Q1: How was the overall organization of the event? | 16 | 6 | 7 | 1 | 0 | 8.47 |
| 2 | Q2: How relevant was the content discussed by the speaker? | 18 | 3 | 3 | 6 | 0 | 8.20 |
| 3 | Q3: Did the event covers what you were expecting? | 19 | 5 | 1 | 2 | 3 | 8.33 |
| 4 | Q4: How much this session/event useful from the knowledge and information point of view | 19 | 5 | 4 | 2 | 0 | 8.73 |
| 5 | Q5: Overall effectiveness of the lecture/ workshop /event | 19 | 5 | 2 | 3 | 1 | 8.53 |
| | Total | 91 | 24 | 17 | 14 | 4 | 8.45 |
| | Grand total | 150 | | | | | |


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Certificate of Participation

This is to certify that Mr/Ms V. Dephi, SRIT, Anantapur actively participated in the enlightening and global event *A Five day Faculty Development Program on Finite Element Analysis and Simulation Conducted from March 4, 2019, to March 8, 2019. Organized by the Department of Mechanical Engineering, this program provided a platform for participants to explore and discuss the latest advancements in Finite Element Methods.*

We applaud for his/her active participation and anticipate his/her continued involvement in future knowledge-sharing initiatives.

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Certificate of Participation

This is to certify that Mr/Ms Y. Indraba, PVKKIT, Anantapur actively participated in the enlightening and global event *A Five day Faculty Development Program on Finite Element Analysis and Simulation Conducted from March 4, 2019, to March 8, 2019. Organized by the Department of Mechanical Engineering, this program provided a platform for participants to explore and discuss the latest advancements in Finite Element Methods.*

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Certificate of Participation

This is to certify that Mr/Ms D. Ajay Kumar Raj, SRT, Anantapur actively participated in the enlightening and global event *A Five day Faculty Development Program on Finite Element Analysis and Simulation* Conducted from March 4, 2019, to March 8, 2019. Organized by the Department of Mechanical Engineering, this program provided a platform for participants to explore and discuss the latest advancements in Finite Element Methods.

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Certificate of Participation

This is to certify that Mr/Ms G. Chandra Sekhar, GATE, Gooty actively participated in the enlightening and global event *A Five day Faculty Development Program on Finite Element Analysis and Simulation Conducted from March 4, 2019, to March 8, 2019. Organized by the Department of Mechanical Engineering, this program provided a platform for participants to explore and discuss the latest advancements in Finite Element Methods.*

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