



DEPARTMENT OF AERONAUTICAL ENGINEERING

Event Report (AY2025-2026)0

Name of the Event	: 4 days Skill Development Program on ANSYS
Date & Time	: 21/11/2025 to 25/11/2025
Place	: AE Seminar Hall
Resource Person	: Mr.Ravindra Bucherla Application Engineer, ARK Info Solutions
No of Student Participants	: 43 (AE) + 38 (AS)= 81 Students
Event Coordinators	: Mr.Ganesh & Mr.Jegatheesh Kumar S

About the Event:

The Department of Aeronautical Engineering in Association with the Aeronautical Society of India conducted four-days skill development program on ANSYS from 21st Nov to 25th Nov 2025. The course was specially designed to provide Aeronautical Engineering students with hands-on experience and in-depth knowledge of simulation and analysis using ANSYS software. The program was started at 09.00 AM with the welcome speech by Dr.G.Ramanan, HOD-AE and followed by the facilitation by the students. Presidential address was given by Dr.Anandthirtha B Gudi, Principal, ACSCE. Special address was given by Prof.Soma, Professor of Aeronautical Engineering. The session was led by Mr. Ravindra Bucherla, an expert Application Engineer from ARK Info Solutions, who brought valuable industry insights and technical expertise to the workshop.

A total of 43 students from AE and 38 students from AS actively participated in the workshop, which was held in the AE Seminar Hall. The course covered both theoretical concepts and practical demonstrations, enabling students to understand simulation workflows from start to finish. The workshop commenced with an Introduction to Finite Element Analysis (FEA), focusing on its principles, advantages, and real-world applications in aerospace and mechanical domains. Participants were then introduced to the ANSYS Workbench environment, including its user interface and basic workflow structure. This was followed by guidance on project creation, system requirements, and part modeling techniques, such as extrusion and sweep.

Campus

207, Kambipura, Mysore Road, Bengaluru - 560 074

Ph: 080 - 2974 8222, 2974 8333 Fax: 080 - 2974 9988

E-mail: info@acsce.edu.in, principal@acsce.edu.in



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In-depth sessions on mesh generation and material property assignment were conducted, emphasizing the importance of accurate modeling for reliable simulation results. The students learned to define solution algorithms, solver controls, and were introduced to mesh refinement and optimization techniques to improve both performance and accuracy.

The next two days of the workshop explored post-processing and results interpretation, including stress and displacement analysis. Students were taught to visualize simulation outputs and make data-driven decisions. The session also delved into advanced Workbench features like Design Points, file structure organization, and documentation methods. The course concluded with a module on simulation optimization, guiding students on how to achieve optimal design solutions through iterative analysis. The workshop was well-received by the students, who appreciated the clarity and depth of the topics covered. The coordinators, Mr. Ganesh and Mr. Jegatheesh Kumar, ensured smooth execution of the event. Overall, the course significantly enhanced the practical understanding of simulation tools among students, making them more industry-ready and confident in using ANSYS for academic and professional applications.

Event Poster:

A Unit of RajaRajeswari Group of Institutions

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Department of Aeronautical Engineering

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One week Expert-Led Industrial Training and Skill Development Session on ANSYS

Aeronautical society of India (AeSI) student chapter

Resource Person
Mr. Ravindra Bucherla
Application Engineer
ARK Infosolutions Pvt. Ltd.

Date: 21st to 25th Nov, 2025 Time: 9:00AM onwards Venue: 4th Floor Seminar Hall

Dr. S. Vijayanand, M.Tech., Ph.D <i>Executive Director, RRG</i>	Sri. C.N.Seetharam., IAS(Retd.) <i>Chief Executive Officer, RRG</i>	Dr. S. Jeyabalan., M.E., Ph.D <i>Special Officer, RRG</i>
Dr.A.K.Mariappan <small>Rector, ACSCE</small>	Dr.Anandhirtha B Gud <small>Principal, ACSCE</small>	Dr. S. Usha <small>Vice - Principal, ACSCE</small>
Dr. P. Theerthamalal <small>Dean, Dept. of Aeronautical Engg.</small>	Prof. P Soma <small>Prof., Dept. of Aeronautical Engg.</small>	Dr. G. Ramanan <small>HOD, Dept. of Aeronautical Engg.</small>

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Workshop Schedule & Topics

1. **Introduction to FEA:**
Explores the principles of FEA, its applications, and advantages.
2. **Introduction to ANSYS Workbench:**
Provides an overview of the user interface and workflow of ANSYS Workbench
3. **Project Creation and System Requirements:**
Covers understanding system requirements and setting up projects within ANSYS
4. **Part Modeling:**
Teaches solid modeling techniques using tools like extrusion, sweep, and other modeling features
5. **Mesh Generation:**
Explores various meshing techniques, including refinement and settings, to create accurate simulations
6. **Material Properties and Material Models:**
Explores different material properties and advanced material models available in ANSYS
7. **Solution Algorithms and Solver Controls:**
Teaches how to select appropriate solvers and adjust solver parameters.
8. **Mesh Refinement and Optimization:**
Covers strategies for improving mesh quality and minimizing simulation time
9. **Post-Processing and Results Interpretation:**
Focuses on visualizing and interpreting simulation results, including stress, displacement, and other parameters.
10. **Workbench Features:**
Explores advanced workbench features like Design Points, project documentation, and file structure management.
11. **Simulation Optimization:**
Introduces techniques for optimizing simulation results and finding optimal design solutions

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Event Certificate



Event Pictures



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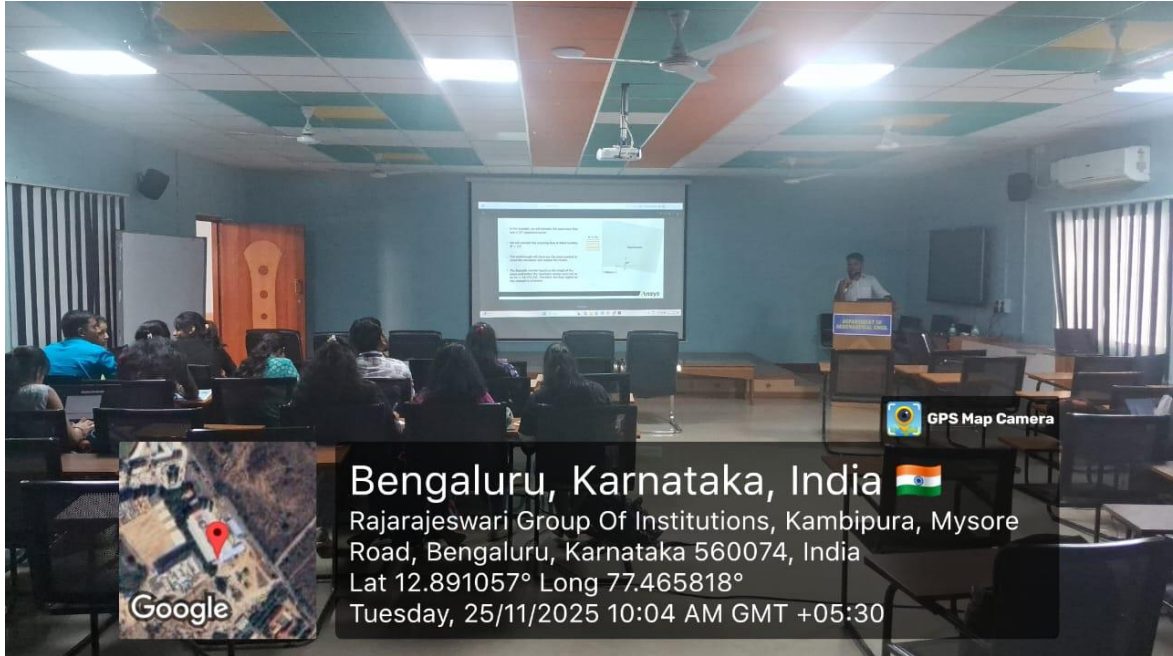
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Bengaluru, Karnataka, India

Rajarajeswari Group Of Institutions, Kambipura, Mysore
Road, Bengaluru, Karnataka 560074, India

Lat 12.891057° Long 77.465818°

Tuesday, 25/11/2025 10:04 AM GMT +05:30



Bengaluru, Karnataka, India

Rajarajeswari Group Of Institutions, Kambipura, Mysore
Road, Bengaluru, Karnataka 560074, India

Lat 12.891034° Long 77.46584°

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Campus

207, Kambipura, Mysore Road, Bengaluru - 560 074

Ph: 080 - 2974 8222, 2974 8333 Fax: 080 - 2974 9988

E-mail: info@acsce.edu.in, principal@acsce.edu.in

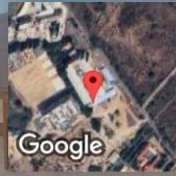
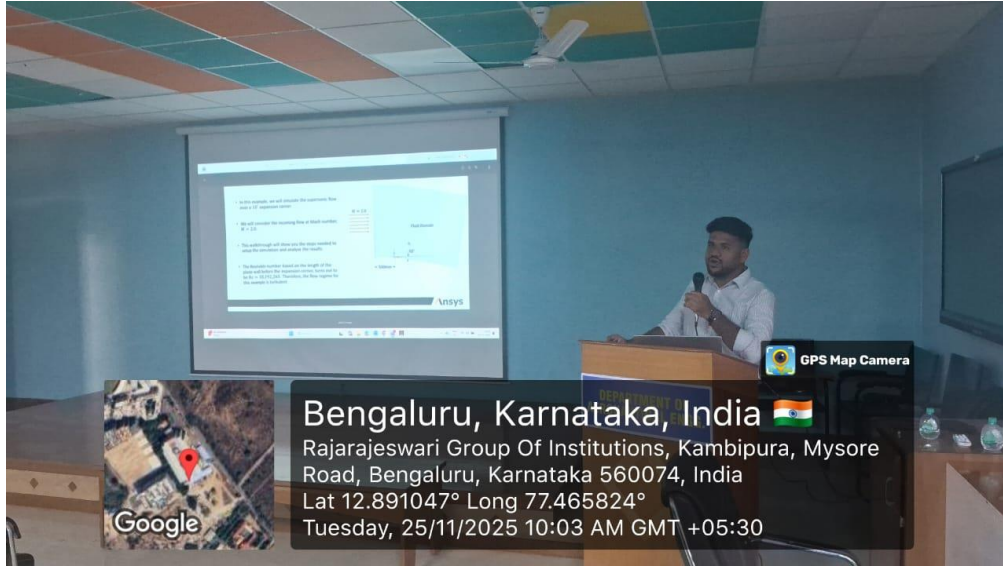
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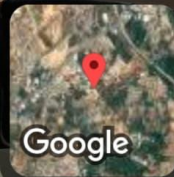
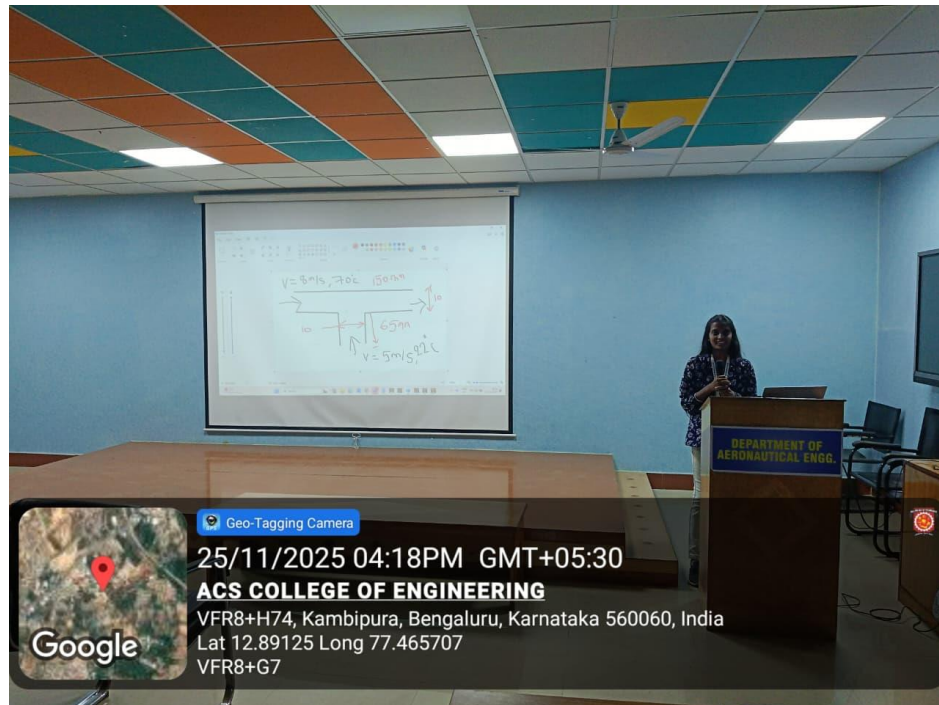
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Rajarajeswari Group Of Institutions, Kambipura, Mysore
Road, Bengaluru, Karnataka 560074, India
Lat 12.891047° Long 77.465824°
Tuesday, 25/11/2025 10:03 AM GMT +05:30



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ACS COLLEGE OF ENGINEERING
VFR8+H74, Kambipura, Bengaluru, Karnataka 560060, India
Lat 12.89125 Long 77.465707
VFR8+G7

Dr.G.Ramanan
HOD-AE

PRINCIPAL
ACS COLLEGE OF ENGINEERING
Kambipura, Mysore Road, Kengeri Hobli
Bangalore-560074
Dr.B.S.Shylaja
PRINCIPAL

Campus

207, Kambipura, Mysore Road, Bengaluru - 560 074
Ph: 080 - 2974 8222, 2974 8333 Fax: 080 - 2974 9988
E-mail: info@acsce.edu.in, principal@acsce.edu.in

www.acsce.edu.in