



DEPARTMENT OF AERONAUTICAL ENGINEERING

Event Report (AY2024-2025)

Name of the Event	: 3 days Value Added Course on ANSYS
Date & Time	: 03/04/2025 to 05/04/2025
Place	: AE Seminar Hall
Resource Person	: Mr.Ravindra Bucherla Application Engineer, ARK Info Solutions
No of Student Participants	: 43
Event Coordinators	: Mr.Ganesh & Mr.Manishankar

About the Event:

The Department of Aeronautical Engineering in Association with Design and Modelling Club conducted three-days Value Added Course on ANSYS on 3rd and 5th April 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 10.00 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 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
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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.

Day two 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. Manishankar, 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

Organises

Value added course on ANSYS

Chief Patron
Dr. A.C. Shanmugam
B.A. LLB, FIMSA, FRCPs (Glasgow, UK)
Founder Chairman
RajaRajeswari Group of Institutions

Co - Patron
Sri. A.C.S Arun Kumar
B.Tech (Hons), LMISTE, MIET, (UK), LMCSI,
President
RajaRajeswari Group of Institutions

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

Date: 3rd to 5th April, 2025 **Time:** 9:00AM onwards **Venue:** 4th Floor Seminar Hall

Dr. S. Vijayanand, M.Tech., Ph.D
Executive Director, RRG

Sri. C.N. Seetharam., IAS(Retd.)
Chief Executive Officer, RRG

Dr. S. Jeyabalan., M.E., Ph.D
Special Officer, RRG

Dr. A.K. Mariappan
Rector, ACSCE

Dr. Anandhitha B Gudli
Principal, ACSCE

Dr. S. Usha
Vice - Principal, ACSCE

Dr. P. Theerthamalai
Dean, Dept. of Aeronautical Engg.

Prof. P. Soma
Prof., Dept. of Aeronautical Engg.

Dr. G. Ramanan
HOD, Dept. of Aeronautical Engg.

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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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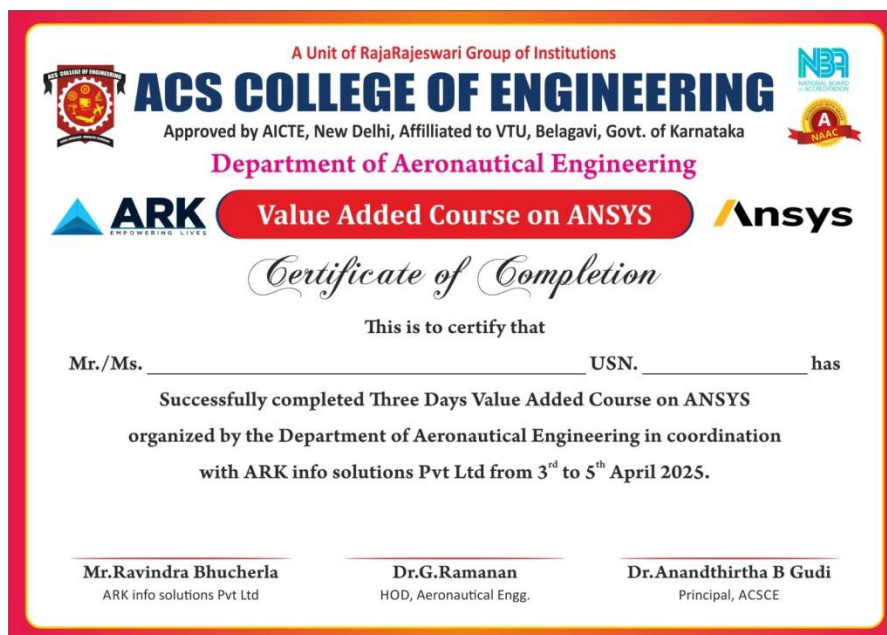
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Event Certificate



Event Pictures



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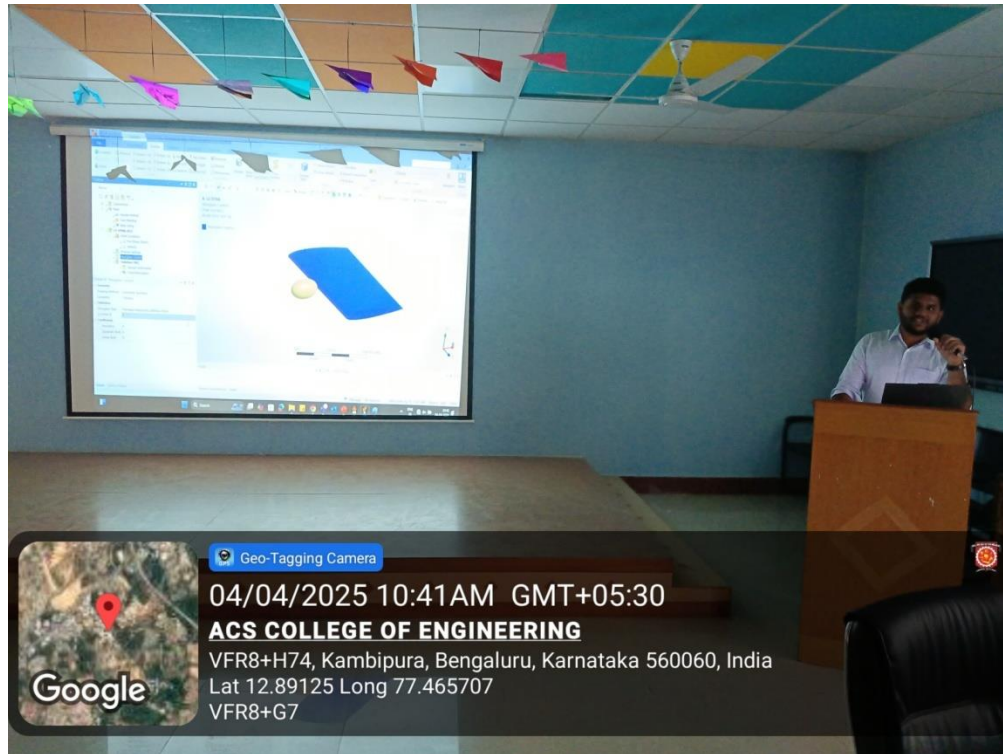
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Event Coordinators

Mr.Ganesh & Mr.Manishankar


Head of the Department
Aeronautical Engineering
ACS College of Engineering
Mysore Road, Kambipura
Bengaluru-560074

HOD

Dr.G.Ramanan

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DEPARTMENT OF AERONAUTICAL ENGINEERING

Attendance sheet

Event Topic: Value Added course on ANSYS

Speaker: Mr. Ravindra Bucherla

Sem: VI

Sl.no.	USN	Student name	3/4/2025		4/4/2025	
			FN	AN	FN	AN
1	1AH18AE021	KAVYA SHREE T A	Kavya	Kavya	Kavya	Kavya
2	1AH22AE002	ADARSH C	Adarsh C	Adarsh C	Adarsh C	Adarsh C
3	1AH22AE003	ANKUSH KULKARNI	Ankush	Ankush	Ankush	Ankush
4	1AH22AE004	ASHOKKUMAR	Asok	Asok	Asok	Asok
5	1AH22AE005	ASHWINI Y PATEL	Ashwin	Ashwin	Ashwin	Ashwin
6	1AH22AE006	BABITHA S	Babitha S	Babitha S	Babitha S	Babitha S
7	1AH22AE007	BILVASHREE D	Bilvashree	Bilva	Bilvashree	Bilvashree
8	1AH22AE008	BRAHMENDRA E	Brahma	Brahma	Brahma	Brahma
9	1AH22AE009	CHANDANA M	Chandana	Chandana	Chandana	Chandana
10	1AH22AE010	CHETAN R	Chetan	Chetan	Chetan	Chetan
11	1AH22AE011	DARSHAN	Darshan	Darshan	Darshan	Darshan
12	1AH22AE012	DEEPIKA C	Deepika	Deepika	Deepika	Deepika
13	1AH22AE014	G RISHI KUMAR	G Rishi	G Rishi	G Rishi	G Rishi
14	1AH22AE015	HABEEBULLA S	Habib	Habib	Habib	Habib
15	1AH22AE016	KARENA RONAK BABUBHAI	Ronak	Ronak	Ronak	Ronak
16	1AH22AE017	KRISHNA MOHAN RATHOD	Krishna	Krishna	Krishna	Krishna
17	1AH22AE018	KRUTHIKA M	Kruthika M	Kruthika M	Kruthika M	Kruthika M
18	1AH22AE019	LAKSHITHA B	Lakshitha B	Lakshitha B	Lakshitha B	Lakshitha B
19	1AH22AE020	LAVANYA N	Lavanya	Lavanya	Lavanya	Lavanya
20	1AH22AE021	MALLIKARJUNA	Mallik	Mallik	Mallik	Mallik
21	1AH22AE022	MOUNESH	Mounesh	Mounesh	Mounesh	Mounesh
22	1AH22AE023	N SHEETAL	Sheetal	Sheetal	Sheetal	Sheetal
23	1AH22AE024	NARAYANA GOWDA S	Narayana	Narayana	Narayana	Narayana
24	1AH22AE025	NAVYA SHREE K	Navya	Navya	Navya	Navya
25	1AH22AE026	NESARA S SHETTY	Nesara Shetty	Nesara Shetty	Nesara Shetty	Nesara Shetty
26	1AH22AE028	PRIYANAKA P G	Priyanka	Priyanka	Priyanka	Priyanka
27	1AH22AE029	PUNITH KUMAR V M	Punith	Punith	Punith	Punith
28	1AH22AE030	RANJAN C	Ranjana	Ranjana	Ranjana	Ranjana
29	1AH22AE031	RASHMI H M	Rashmi H M	Rashmi H M	Rashmi H M	Rashmi H M
30	1AH22AE032	RISHIKESH S	Rishikesh	Rishikesh	Rishikesh	Rishikesh
31	1AH22AE033	RITESH R AMIN	Ritesh	Ritesh	Ritesh	Ritesh
32	1AH22AE034	S KUSHAL GOWDA	Kushal	Kushal	Kushal	Kushal
33	1AH22AE035	SAGAR M	Sagar M	Sagar M		
34	1AH22AE036	SANJANA M	Sanjana M	Sanjana M	Sanjana M	Sanjana M
35	1AH22AE037	SANJANA R CHOUHAN	Sanjana	Sanjana	Sanjana	Sanjana
36	1AH22AE038	SANTOSHI	Santoshi	Santoshi	Santoshi	Santoshi
37	1AH22AE039	SHAHID AHMED Z	Shahid	Shahid	Shahid	Shahid
38	1AH22AE040	SUMANTH N S	Sush	Sush	Sush	Sush
39	1AH22AE041	SUPREETH BASAPPA SONNAD	Supreet	Supreet	Supreet	Supreet
40	1AH22AE042	VARSHA BASAVARAJ	Varsha	Varsha	Varsha	Varsha
41	1AH22AE043	YASHASWINI B	Yashaswini	Yashaswini	Yashaswini	
42	1AH23AE400	ALEN A K			Alen	
43	1AH23AE402	SHARMILA	Sharmila B	Sharmila B	Sharmila	Sharmila B

Coordinator

HOD

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DEPARTMENT OF AERONAUTICAL ENGINEERING

FEED BACK FORM

FOR

“VALUE ADDED COURSE ON ANSYS”

SPEAKER : Mr Ravindra Bucherla

DATE : 03.04.2025 & 04.04.2025

Questionare	Very Good (5)	Good (4)	Satisfactory (3)	Unsatisfactory (2)	Poor (1)
Was the workshop intresting?	✓				
Was the hands on session helpful for improving your technical knowledge?		✓			
Was the presenter able to reach you ?	✓				
Was the presenter strong in Subject Knowledge	✓				
Any other suggestions	The workshop must be conducted on regular bases, so that we can be in touch with Software without forgetting the use of tools -				

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Was the workshop intresting?	5				
Was the hands on session helpful for improving your technical knowledge?		4			
Was the presenter able to reach you ?	5				
Was the presenter strong in Subject Knowledge	✓				
Any other suggestions	We want the ansys programs to be conducted and don't want just workshop				

make ~~more~~ ~~for~~ placement training for our
skills in the ansys for ~~the~~ developing
that helps in our future profession.

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Was the workshop intresting?				2	
Was the hands on session helpful for improving your technical knowledge?			3		
Was the presenter able to reach you ?			3		
Was the presenter strong in Subject Knowledge	5				
Any other suggestions	The course may be extended for few more days, as we could gain more knowledge				

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Was the workshop intresting?	✓				
Was the hands on session helpful for improving your technical knowledge?		✓			
Was the presenter able to reach you ?		✓			
Was the presenter strong in Subject Knowledge	✓				
Any other suggestions					

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Was the workshop intresting?	✓				
Was the hands on session helpful for improving your technical knowledge?			✓		
Was the presenter able to reach you ?		✓			
Was the presenter strong in Subject Knowledge	✓				
Any other suggestions	No. Good session				

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Was the workshop intresting?		✓			
Was the hands on session helpful for improving your technical knowledge?		✓			
Was the presenter able to reach you ?		✓			
Was the presenter strong in Subject Knowledge		✓			
Any other suggestions	NO NO. It was Good.				

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Was the workshop intresting?		✓			
Was the hands on session helpful for improving your technical knowledge?		✓			
Was the presenter able to reach you ?		✓			
Was the presenter strong in Subject Knowledge		✓			
Any other suggestions					

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Was the workshop intresting?	✓				
Was the hands on session helpful for improving your technical knowledge?	✓				
Was the presenter able to reach you ?	✓				
Was the presenter strong in Subject Knowledge	✓				
Any other suggestions	Conduct more workshops related to ANSYS and also MATLAB, solidworks & CATIA Provide certificates.				

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Was the hands on session helpful for improving your technical knowledge?		✓			
Was the presenter able to reach you ?		✓			
Was the presenter strong in Subject Knowledge		✓			
Any other suggestions	Initially Explain about basic tools				

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Was the hands on session helpful for improving your technical knowledge?		✓			
Was the presenter able to reach you ?		✓			
Was the presenter strong in Subject Knowledge			✓		
Any other suggestions	explain about basic tools (initially)				