



# ACS COLLEGE OF ENGINEERING

Kambipura, Mysore Road, Bengaluru – 560074

(Affiliated to VTU, Approved by AICTE, Recognized by Govt of Karnataka)

NAAC 'A' Grade Accredited

DEPARTMENT OF AERONAUTICAL ENGINEERING

(Accredited by NBA)



## RICAT 2025 Conference Report

Name of the Event	: Third National Conference on Recent Innovations and Challenges in Aviation Technology
Date & Time	: 04/12/2025 from 8.30 am to 4pm
Place	: AE Seminar Hall-4 <sup>th</sup> floor
Resource Person	: Shri.L.V.Prasad, Senior Scientist (Retd.) ISRO, Bengaluru
No of Participants	: 132
Event Poster	

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Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi & Govt. of Karnataka  
#207, Kambipura, Mysore Road, Bengaluru – 560 074  


*All Are Cordially Invites You*

**3<sup>rd</sup> NATIONAL CONFERENCE ON  
RECENT INNOVATIONS AND CHALLENGES  
IN AVIATION TECHNOLOGY (RICAT-2025)**

**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,  
MIEEE, MCSI, MISTE, CEng (India)  
**President**  
RajaRajeswari Group of Institutions

*Organized By:*  
**DEPT. OF AERONAUTICAL  
ENGINEERING**

**Chief Guest**  
**Sri. L.V. Prasad**  
*Senior Scientist & Deputy Director(Retd.)*  
Indian Space Research Organisation(ISRO), Govt. of India

**Date: 04<sup>th</sup> Dec, 2025 Time: 9:30 AM Venue: 4<sup>th</sup> Seminar Hall, ACSCE Campus**

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

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

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

**Dr. A.K. Mariyappan**  
Rector, ACSCE

**Dr. S. Meenakshi Sundaram**  
Registrar, ACSCE

**Dr. B.S. Shylaja**  
Principal, ACSCE

**Dr. S. Usha**  
Vice Principal, ACECE

**Dr. P. Theerthamalai**  
Dean, AE

**Prof. Soma**  
Professor, AE

**Dr. G. Ramanan**  
HoD, Dept. of AE

# National Conference on Recent Innovations and Challenges in Aviation Technology (RICAT 2025)

## PROGRAM SCHEDULE

**Date: 04/12/2025 (Thursday)**

Time	Event	Presided by
08.30 AM	Registration	Prof.Dharmadurai & Prof.Jegatheesh Kumar S
10.00 AM	Welcoming Guests & Participants	Faculty & Students AE
10.02 AM	Lighting Lamp	Guests on Dias
10.05 AM	Invocation Song	Manisha-3 <sup>rd</sup> Sem-AE
10.07AM	Welcome Address	Dr.G.Ramanan HOD-AE
10.10AM	Presidential Address	Dr.B.S.Shylaja Principal ACSCE
10.15AM	Conference Address	Prof.P.Soma Professor-AE
10.20AM	Special Address	Dr.Meenakshi Sundram, Registrar, RRG
10.23AM	Introducing Chief Guest	Athulya-3 <sup>rd</sup> Sem-AE
10.25AM	Chief Guest Felicitation	Principal, ACSCE
10.27AM	Releasing Conference Proceedings Souvenir	Guests on Dias
10.30AM	Chief Guest Address : Key Note Session	Shri. L.V.Prasad, Senior Scientist & Deputy Director-ISRO
11.00 AM	Presentation Guidelines	Dr.Anand A
<b>Tea Break (11am to 11.15am)</b>		
11.15AM to 01.00PM	Presentation-Parallel Sessions	Dr.Anand A & Prof.R.Ganesh
<b>Lunch Break (1pm to 01.45pm)</b>		
01.45PM to 03.00PM	Presentation-Parallel Sessions	Dr.Anand A & Dr Dhanyaprakash R Babu
03.30PM	Valedictory Function	HOD-AE
03.40PM	Vote of Thanks	Prof.Albert Allen D Mello Asst. Professor-AE
National Anthem		

## Conference banner:

<p><b>Advisory Committee</b>  <b>Chief Patron</b>          Dr. A. C. Shanmugam, Chairman, RRG          Sri. A. C. S. Arunkumar, Vice-Chairman, RRG  <b>Patrons</b>          Dr. S. Vijayanand, Executive Director, RRG          Dr. S. Jeyabalan, Special Officer, RRG          Sri C. N. Seetharam, IAS (Rtd) CEO, RRG          Dr. A. K. Mariappan, Rector, ACSCE          Dr. Anandthirtha B Gudli, Principal, ACSCE          Dr. S. Usha, Vice Principal, ACSCE  <b>Convenor</b>          Dr. G. Ramanan, HOD, Aeronautical Engineering, ACSCE  <b>Institution Advisory Committee</b>          Dr. P. Theerthamalai, Professor &amp; Dean, ACSCE and Former Director-DRDL, Hyderabad          Dr. A K Sarkar, Professor, ACSCE &amp; Former Technology Director-DRDL, Hyderabad          Prof. P Soma, Professor, ACSCE &amp; Former Director-ISTRAC, ISRO, Bangalore  <b>Organizing Committee</b>          Dr. Anand A, Associate Professor, AE, ACSCE          Prof. Dhanya Prakash R. Babu, Asst. Professor, AE, ACSCE          Prof. Radha Krishnan P, Asst. Professor, AE, ACSCE          Prof. Albert Allen D Mello, Asst. Professor, AE, ACSCE          Prof. Manishankar V, Asst. Professor, AE, ACSCE          Prof. Satish Hiremath, Asst. Professor, AE, ACSCE          Prof. Balaji S, Asst. Professor, AE, ACSCE          Prof. Dharmadurai, Asst. Professor, AE, ACSCE          Prof. Ganesh R, Asst. Professor, AE, ACSCE  <b>National Advisory Committee</b>          Shri. Ashwin Chandar O R, Scientist-FS, Technology Director, ASL, Hyderabad          Dr. Bhuj Raj, Group Director (Retd.), ISRO          Dr. Suresh, Professor, Anna University, Tamilnadu          Shri. T K Sundaramurthy, Scientist (Retd), ISRO, Bangalore, Karnataka          Dr G Balu, Scientist (ret), DRDL, Hyderabad          Dr S N Omkar, Professor, IISc, Bangalore          Dr Ramesh Kestur, Professor, IIT, Bangalore          Shri. G Vishwanathan, Scientist (ret), ISRO, Bangalore          Prof. Chaman Lal Ojha, Former Project Director, VSSC, Trivandrum          Dr Saravanakumar, MIT, Anna University          Shri. R. Arunachalam, Scientist (ret), U R Rao Satellite Centre (URSC), Bangalore          Shri. Tamilarasu, CEO, Aerotics Technologies, Bangalore          Dr. Bino Prince Raja, Professor and Head, GAT, Bangalore          Prof. Vijayandh Raja, KCT, Coimbatore</p>	<p><b>About the Institution</b>          ACS College of Engineering, an institution of academic excellence was established in the year 2009 with a cherished desire to serve the cause of humanity through education. This college is affiliated to Visvesvaraya Technological University, Belagavi and has been approved by the All India Council of Technical Education, New Delhi. The College offers technical education in a range of engineering disciplines including new age ones such as Aeronautical Engineering and Bio-Medical Engineering. ACSCE equips its students not only with the technical knowledge to enable them to meet the challenges of global standards but also integrates value education, environmental awareness and communication skills into its curriculum to mould the students as responsible citizens. The college is located in a beautiful lush green landscape, free from polluted environment and excellent atmosphere and ambience ideally suited for growth of the soul &amp; mind. It is located behind RRMCH on the Bengaluru-Mysore Highway 15 Km from the Bengaluru City Railway Station and 2km from kengeri Railway Station. The Institute has a strong anti ragging committee which is very proactive in looking after the whole college 24X7 including hostels.</p> <p><b>About the Department</b>          The Aeronautical Engineering was established in the year of 2010 with an intake of 60 and increased to an intake of 120 in the year of 2019-20. The Department is accredited with NBA, affiliated under VTU with AICTE recognition to meet the scope of burgeoning needs of Aerospace industry. Importance is given to full-fledged laboratories, Research activities &amp; experienced Faculties with industrial exposure as well. Leading application of Science and Technology in Aeronautical and Aerospace engineering for global utility to produce and train responsible, competent, creative and innovative professionals in the field of aeronautical and aerospace engineering through world class academic and application programs.</p> <p><b>Contact Address</b>          The Convenor,          RICAT 2025,          Department of Aeronautical Engineering,          ACS College of Engineering, Kambipura,          Mysore road, Bangalore - 560074.</p> <p><b>CONTACT NUMBERS:</b>          ➤ Dr. Anand A - +91 7026762010          ➤ Prof. R. Ganesh - +91 7010241472</p> <p><b>E-MAIL ID:</b> ricat2k25@gmail.com</p>	<p><b>ACS COLLEGE OF ENGINEERING</b>          #207, Kambipura, Mysore Road, Bengaluru-74</p> <p><b>3<sup>rd</sup> NATIONAL CONFERENCE ON RECENT INNOVATIONS AND CHALLENGES IN AVIATION TECHNOLOGY - 2025</b>  <b>RICAT 2025</b>  <b>18<sup>th</sup> DECEMBER 2025</b></p> <p><b>Organized by</b>  <b>DEPARTMENT OF AERONAUTICAL ENGINEERING</b></p>  <p><a href="https://www.acsce.edu.in/departament/aeronautical-engineering/">https://www.acsce.edu.in/departament/aeronautical-engineering/</a></p>
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## About the Event:

Department of Aeronautical Engineering, ACS College of Engineering successfully organized the Third National Conference on Recent Innovations and Challenges in Aviation Technology (RICAT 2025) on 4<sup>th</sup> Dec 2025. Shri L V Prasad, Senior principal scientist, ISRO-Bangalore was the chief guest for the Inauguration. 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.B.S Shylaja, Principal, ACSCE, Inaugural address was presented by Dr.S.Meenakshi Sundaram, registrar, RRG, and Conference address was given by Prof.Soma, Professor of Aeronautical Engineering.

The chief guest presented a keynote session on the topic "Exploring Aviation Innovations and Challenges" to the participants. The technical session was conducted in four parallel sessions with session chairs. In the valedictory function, the best paper was awarded with an appreciation certificate. 132 students and faculty from various institutions were registered and participated in the conference.

ACS College of Engineering students and various institution students have actively participated and also received awards for Best Projects. The Chief Guest for the conference inspired the students with his motivational Talk. The event ended with National Anthem. The entire programme was co-ordinated with the support of the management, Principal, faculty, Professors and students of the Aeronautical Engineering, ACSCE.



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Mysore Road, Bengaluru, Karnataka.



## Proceedings of the 3<sup>rd</sup> National Conference on Recent Innovations and Challenges in Aviation Technology (RICAT 2025)

Department of Aeronautical Engineering,  
Bangalore, Karnataka, India  
4<sup>th</sup> December 2025

Editors

Dr. G Ramanan, Prof. R Ganesh



# RICAT 2025 | Conference Proceedings

List of Authors presented in the National Conference RICAT 2025

Sl no	First Author Name	Name of the Organization
1	Shivacharan Holla N	ACS College of Engineering
2	Pavithra D	ACS College of Engineering
3	Shruti	ACS College of Engineering
4	Karishma S	ACS College of Engineering
5	R V Dinesh kumar	ACS College of Engineering
6	Shahid Ahmed Z	ACS College of Engineering
7	Devika R	ACS College of Engineering
8	Pratham Kumar R	ACS College of Engineering
9	Ashish M	ACS College of Engineering
10	Krish Dev	ACS College of Engineering
11	Vijayakumar P	Nehru Institute of Technology
12	Dr. S. Satheesh Kumar	Nehru Institute of Technology
13	R.Anand	Nehru Institute of Technology
14	Vamshi Krishna	ACS College of Engineering
15	GIRISH B	ACS College of Engineering
16	SNEHASHREE.K	ACS College of Engineering
17	Brahmendra E	ACS College of Engineering
18	Akshaye Kanna S V	Rajarajeswari College of Engineering
19	Babitha S	ACS College of Engineering
20	Amar Gandge Subash	Mangalore Institute of Technology
21	VARSHA BASAVARAJ	ACS College of Engineering
22	Santoshi	ACS College of Engineering
23	Yashaswini B	ACS College of Engineering
24	Ankush kulkarni	ACS College of Engineering
25	Chandana M	ACS College of Engineering
26	Prerana D S (Aerospace)	ACS College of Engineering
27	KRUTHIKA. M	ACS College of Engineering
28	Ranjan C	ACS College of Engineering
29	BHAVANA(Aerospace)	ACS College of Engineering
30	Naveen E	ACS College of Engineering
31	G Rishi Kumar	ACS College of Engineering

32	<b>VARSHINI S(Aerospace)</b>	<b>ACS College of Engineering</b>
33	<b>CHIRAG K A (Aerospace)</b>	<b>ACS College of Engineering</b>
34	<b>Sivaraj Sivakumaran</b>	<b>ISRO</b>
35	<b>Bilvashree D</b>	<b>ACS College of Engineering</b>
36	<b>Akshatha P.S(Aerospace)</b>	<b>ACS College of Engineering</b>
37	<b>Charvi R.A(Aerospace)</b>	<b>ACS College of Engineering</b>
38	<b>Likitha S(Aerospace)</b>	<b>ACS College of Engineering</b>
39	<b>Kushal Gowda</b>	<b>ACS College of Engineering</b>
40	<b>Praveen kumar K.M(Aerospace)</b>	<b>ACS College of Engineering</b>
41	<b>Dayamani S G</b>	<b>Ramaiah College of Engineering</b>
42	<b>Aishwarya S</b>	<b>Global Institute of Technology</b>
43	<b>Ajin Aslam Qureshi</b>	<b>ACS College of Engineering</b>

## Event Pictures:

### Conference Inauguration Ceremony





**Releasing the Conference Proceedings**



**Address by Dr.S.Meenakshi Sundaram, Registrar, RRG**



**Address by the Shri.P.Soma, Professor, Aeronautical**



**Key note Session by the Guest Shri.L.V.Prasad, ISRO**



**Conference paper presentation pictures**







**Appreciation to the Session chair**



**Best paper awarded by the session chairs**





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## 3<sup>rd</sup> NATIONAL CONFERENCE ON RECENT INNOVATIONS AND CHALLENGES IN AVIATION TECHNOLOGY (RICAT - 2025)

### DEPARTMENT OF AERONAUTICAL ENGINEERING

### *Certificate of Presentation*

This is to certify that

Dr./Prof./Mr./Mrs. \_\_\_\_\_

has presented a paper titled \_\_\_\_\_

in the National Conference on Recent Innovations and Challenges in Aviation Technology (RICAT-2025), organized by  
the Department of Aeronautical Engineering, ACS College of Engineering, Bangalore, India on 4<sup>th</sup> Dec, 2025.

**Dr.G.Ramanan**  
Convenor

**Dr.P.Theerthamalai**  
Dean

**Dr.B.S.Shylaja**  
Principal



### Vote of thanks by Dr.G.Ramanan, Convenor-RICAT 2025



In the valedictory function conference paper presentation certificates were given to all the registered and presented authors and best paper was awarded with cash prize to three teams. At the end of event vote of thanks was proposed by Dr Ramanan, HOD AE department. The entire programme was co-ordinated with the support of the management, Principal, faculty, Professors and students of the Aeronautical Engineering, ACSCE.

**Dr.G.Ramanan**  
HOD-AE

PRINCIPAL  
ACS COLLEGE OF ENGINEERING  
Kambipura, Mysore Road, Kengeri Hobli  
Bangalore-560074

**Dr.B.S.Shylaja**  
PRINCIPAL