EXCEL ENGINEERING COLLEGE (Autonomous)
KOMARAPALAYM-637303

DEPARTMENT OF AERONAUTICAL ENGINEERING
ARHAKRZ 2K22– 23 Q3

VOLUME I ISSUE 3

VISION

To empower the students subject knowledge of Aeronautical Engineering for serving the society in a challenging global environment

MISSON

To provide the quality technical education in tune with challenges.

To offer latest technological development in the field of aero engineering.

To integrate the intellectual, spiritual, ethical and social development of the students for becoming dynamic Aeronautical engineers.

To initiate desires for under taking entrepreneurship and lifelong learning.

CHAIRMAN'S MESSAGE

The Aeronautical Engineering Department continues to make remarkable strides in innovation and technology. With a strong foundation in aerodynamics, propulsion, avionics, and space technology, we prepare students to excel in this dynamic industry. Our dedicated faculty and hands-on learning approach ensure that students are equipped with the skills to tackle real-world challenges. I encourage students to stay curious, embrace advancements, and contribute to the future of aerospace engineering. Let us continue to strive for excellence and achieve new milestones.

Prof. Dr. A. K. NATESAN
M. Com., MBA., M. Phil.,

VICE-CHAIRMAN'S MESSAGE

The Aeronautical Engineering Department is dedicated to shaping future aerospace professionals through innovation, research, and technical excellence. With advancements in aviation and space exploration, our students have immense opportunities to contribute to this ever-evolving field. Our experienced faculty and industry-focused curriculum provide a strong foundation in aerodynamics, propulsion, and avionics. I encourage students to stay committed, embrace challenges, and strive for excellence in their pursuits. Together, let us soar to new heights in aerospace engineering.

Dr. N. MATHAN KARTHIK
M.B.B.S., M. H. Sc .,

PRINCIPAL'S MESSAGE

The Aeronautical Engineering Department plays a vital role in fostering innovation and technical excellence in the field of aviation and space exploration. With a strong curriculum, experienced faculty, and hands-on learning opportunities, we prepare students to meet industry challenges and drive future advancements. I encourage students to be inquisitive, embrace emerging technologies, and strive for excellence in their academic and professional journeys. Together, let us continue to achieve new milestones in aeronautical engineering

Dr. K. BOMMANNA RAJA
Ph.D.,

HOD'S MESSAGES

The Aeronautical Engineering Department is committed to providing a strong technical foundation and practical exposure to aspiring aerospace engineers. With a focus on innovation, research, and industry-oriented learning, we equip students with the skills needed to excel in aviation and space technology. Our dedicated faculty, state-of-the-art facilities, and hands-on projects ensure a comprehensive learning experience. I encourage students to be curious, proactive, and passionate about aeronautical advancements. Let us work together to achieve excellence and make meaningful contributions to the aerospace industry.

Dr. S.P.VENKATESAN Ph.D.,

INDEX OF THE NEWSLETTER

DEPARTMENT NEWS

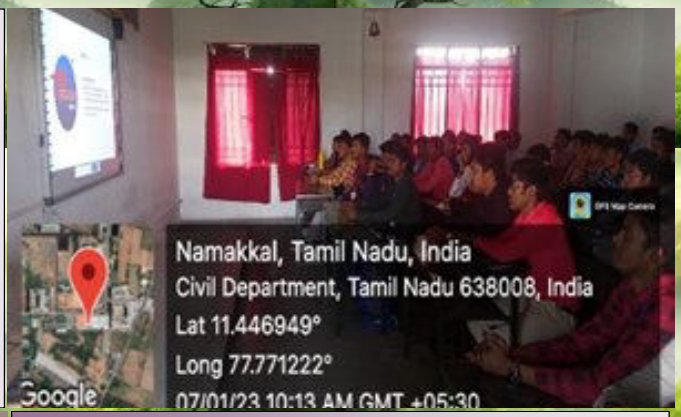
Aircraft design perspective and career guidance has conducted on 07.01.2023 at pavaiyammal Hall

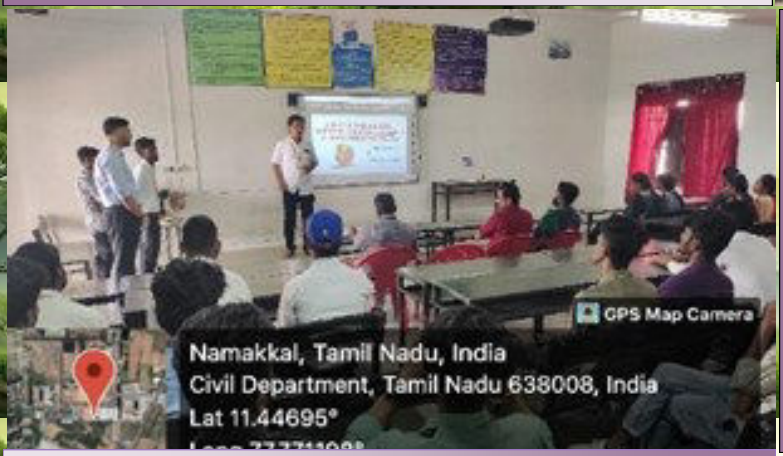
Chief Guest:

Mr.M.Vikram

Technical Lead Pegasus Aerospace Systems.

No. of participants: 50





Non –Academic Events: Speech competition related to mother language day has conducted **on** 21.01.2023

Chief Guest
Mr.M.Sanjay
Assistant Professor
Aeronautical Engineering,
Excel Engineering College

No. of participants: 102

Guest lecture on Finite Element Methods has conducted **on** 04.02.2023 at Smart Room

Chief Guest
Prof A.Aravindh,
Director,
Unify Academy.

No. of participants: 55

Industrial Guest lecture on structures Design has conducted on 04.03.2023 at Smart Room

Chief Guest
Dr.P.Ponnusamy ,
Professor,
Thermal & Energy Engineering ,

No. of participants: 102

STUDENTS

Activity participation *

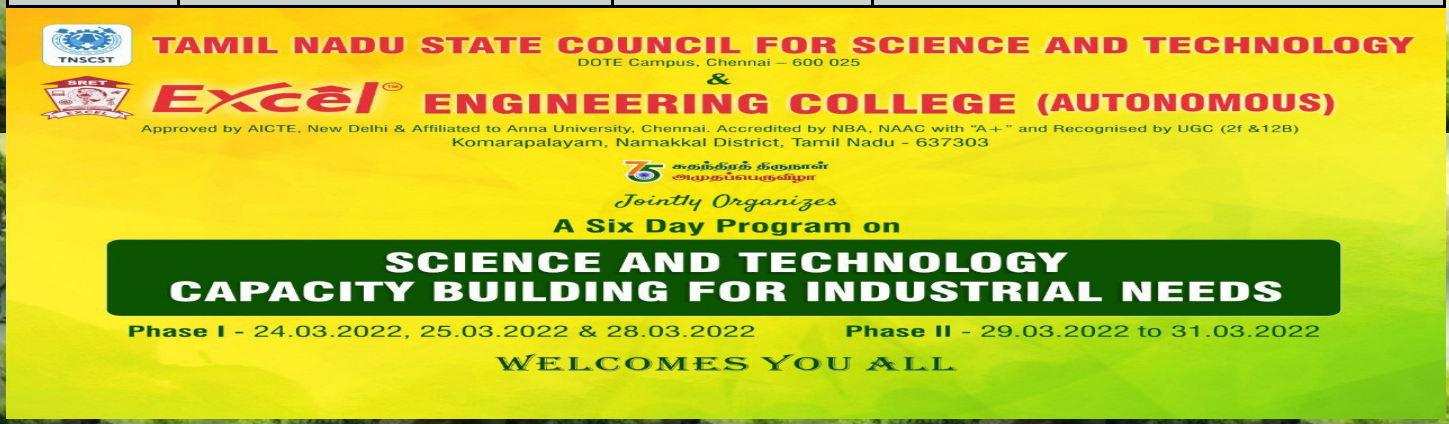
Sl.No	Nature of Events	Participants
1	Workshop	25
2	Seminar	08
3	Symposium	11
4	Other	12
	Total	56

Placement Details*

Sl. No	Name of the Company	Number of Students Placed
1	Dxc technology, Bangalore	3
2	Garuda aerospace private limited, Chennai	4
3	CRI Pump,Coimbatore	3

Faculty participation in various Events

SL. No.	Name of the faculty	Designation	FDP / Seminar / Conference / Workshop / Webinar / NPTEL / Online course Industrial / Training
1	S R Arun	Assistant Professor	1
2	S Karthik	Assistant Professor	1
3	J Senthilkumar	Assistant Professor	1
4	M Nambirajan	Assistant Professor	1



ISTE Best Student Award

S.No.	Batch	Name of the student	Department	Photo
1	2018-22	Bijay Kumar Sha	Aeronautical Engineering	

READING PAGE

Program Educational Objective

* PEO 1: Graduates will have the ability to handle industrial challenges by equipping them to meet the demands of the Aeronautical Industry.
* PEO 2: Graduates will have the capability to become socially, intellectually and ethically responsible aeronautical engineers.
* PEO 3: Graduates expertise with essential technical, managerial, and soft skills that make them to be professionally competent.

Program specific outcome

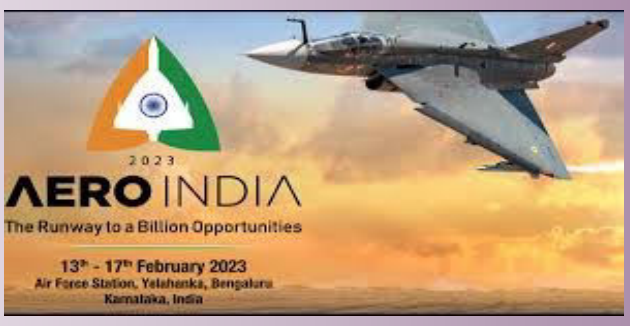
* **Core skills:** Identify, Formulate and Analyze Complex Engineering problems in aerodynamics, Propulsion, Aircraft Structures, aircraft Manufacturing and Maintenance domains.
* **Interdisciplinary skills:** Able to design and develop interdisciplinary and innovative systems.
* **Personality Development:** Able to inculcate effective communication skills, team work, ethics, leadership in preparation for a successful career in industry and R&D organizations.

RECENT TREND IN AEROSPACE ENGINEERING

- These technologies are being used to improve design, enable predictive maintenance, and enhance operational efficiency across the industry.
- Significant focus is placed on the development of electric aircraft and the integration of autonomous flight systems, including electric propulsion.

The utilization of smart materials in aircraft design is another significant trend for developing more efficient and innovative solutions.

- Research and development into hypersonic technology, with speeds exceeding Mach 5, continued to be a prominent area, promising reduced travel times.
- This enables the faster production of lightweight, high-performance parts for aerospace applications.



Editorial Board

NH 47, SALEM MAIN ROAD,
KOMARAPALAYAM,
NAMAKKAL-637 303
TAMILNADU, INDIA

PHONE: **+91 4288 - 2227361**
FAX: **04288 - 2227529, 227368**
E- MAIL: **eecaerohod@ excelcolleges.com**

WE'RE ON THE WEB!
WWW.EXCELINSTITUTIONS.COM