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“ALTITUDE OUR ATTITUDE”

AERO EPISTLE

**AERONAUTICAL ENGINEERING
NEWS LETTER**

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HoD/Aero**

**EDITOR : Mr.R. VEERAMANIKANDAN
AP/Aero**



**Hindusthan College of Engineering and Technology
Valley Campus, pollachi Highway, Coimbatore.**

www.hicet.ac.in

About HiCET



Hindusthan College of Engineering and Technology (HiCET) Coimbatore, established in the year 2000 by the great Industrialist and Philanthropist, Thiru.T.S.R.Khannaiyann of Hindusthan Educational Trust whose determination and dynamism made possible the realization of this institution of excellence. Surrounded with nature's pristine beauty and an excellent infrastructure coupled with dedicated and experienced faculty has made the campus a much sought-after abode of learning. HiCET is one of the premier technological institutions inculcating quality and value based education through innovative teaching learning process for holistic development of the Students. The institution is recognized under Section 2(f) and 12B of University Grants Commission (UGC) and is an autonomous institution affiliated to Anna University, Chennai with permanent affiliation for most of the programmes, approved by the AICTE and the Government of India. Accredited by the National Assessment and Accreditation Council (NAAC) with 'A' grade, National Board of Accreditation (NBA).

HiCET conducts seminars and also invites companies to give presentations that will help our students to choose a right career for themselves and has hence contributed to the industry by successfully delivering fresh recruits who have contributed continuously to the growth of the industry by being a part of the top-notch organizations. For all these reasons HiCET has been a preferred institute for recruiting young minds.

Quality Policy

Hindusthan College of Engineering and Technology aims at providing the best education which will mould the students as the right characters, who will cater to the needs of the society. While providing the various inputs for the best education, Hindusthan College of Engineering and Technology will constantly thrive upon continual improvement with the utmost commitment for the complete satisfaction of the customer.

About the Department of Aeronautical Engineering



The Department of Aeronautical Engineering was established in the year 2005 and now headed by Dr.V.T.Gopinathan. The Department also inaugurated the Aeronautical Students' Engineering Association (ASEA) in March 2008. The Department is directed by a dedicated team of teaching and non-teaching staff with a wide range of experience, and it has well-equipped laboratories and good infrastructure to support the autonomous curricular needs. Until now, the department has been in the forefront of advancing aeronautical education and indigenous research in the field of aeronautics. The department has received numerous funds under different schemes for various projects. On the year 2018 the UAV lab and UAV club was established to invent and support the UAV sector.

Department Vision

To be a global player and prepare the students with knowledge, skills, and ethics for their successful deployment in Aeronautical engineering.

Department Mission

M1:To nurture the students technically based on current trends and opportunities in the global Aerospace industry.

M2:To develop the students as innovative engineers to address the contemporary issues in the aeronautical field.

M3:To inculcate professional and social responsibility based on an innate ethical value system.

Program Educational Objectives (PEOs)

PEO 1: Graduates shall exhibit their sound theoretical, and practical knowledge with skills for successful employment, advanced education, research, and entrepreneurial endeavors.

PEO 2: Graduates shall establish deep-rooted mastering abilities, professional ethics, and communication alongside business capabilities and initiatives through lifelong learning experiences.

PEO 3: Graduates shall become leaders and innovators by devising engineering solutions for social issues in care of modern society.

Program Specific Outcomes (PSOs)

The graduates will be able to:

PSO 1:Apply the knowledge of aerodynamics, structures, propulsion, avionics, and aircraft maintenance to give solutions for complex engineering problems.

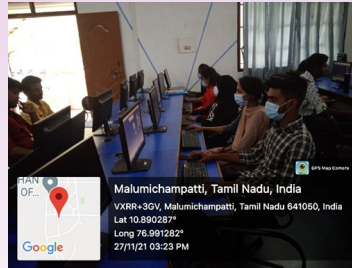
PSO 2:Use progressive methodology and tools involving design, analyze, and experiment in aircraft design.

Program objectives (PO)

| | | |
|------|--|--|
| PO1 | Engineering knowledge | Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems. |
| PO2 | Problem analysis | Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences. |
| PO3 | Design/development of solutions | Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations. |
| PO4 | Conduct investigations of complex problems | Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions. |
| PO5 | Modern tool usage | Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations. |
| PO6 | The engineer and society | Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice |
| PO7 | Environment and sustainability | Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. |
| PO8 | Ethics | Apply ethical principles and commit to professional ethics, responsibilities, and norms of the engineering practice. |
| PO9 | Individual and team work | Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. |
| PO10 | Communication | Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. |
| PO11 | Project management and finance | Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments |
| PO12 | Life-long learning | Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. |

CREO for Design Engineers (VAC)

This event is conducted from 19th OCTOBER to 02nd NOV .The outcome of the event is Creation of part drawings and 3D models using CAD techniques , Generation of part programs for industrial components using CAM techniques , Ability to develop a product from conceptualization to reality.



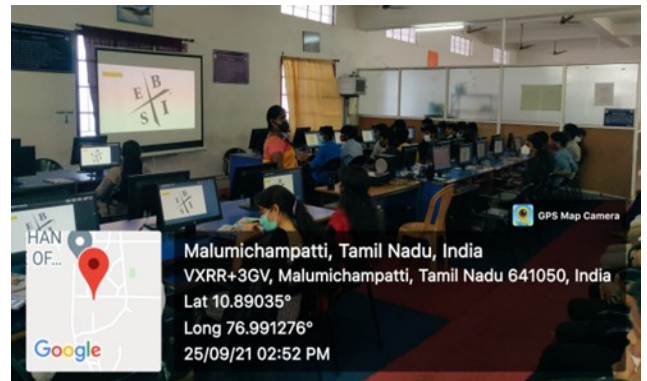
Awareness Program on Entrepreneurship on 25th september

“Outcome :

- Awareness on Entrepreneurship.
- Information about EDI in the institution.
- Inspired students for Entrepreneurial Ideas.

Remarks and Feedback on the Event :

- Students were extensively interested in the program.
- Students showed willingness to join EDI cell
- The Presenter’s contribution was impressive.



Awareness Program on Satellite Tool Kit (STK)

The main objective of the event is to create awareness about Systems Tool Kit (formerly Satellite Tool Kit). STK ,is a multi-physics software application from Analytical Graphics, Inc. (an Ansys company) that enables engineer sand scientists to perform. It is conducted on 12/10/2021. Complex analyses of ground, sea ,air, and space platforms ,and to share results in one integrated environment and the outcome of the event is Students understood the importance of Satellite Tool Kit and its applications in the field of Aerospace



Effects of corrosion on Aircraft components and Materials on 17th of NOV

Name and Designation of Resource Person : Mr. Mohamed RS Hameed

Director, PlanetX Aerospace Pvt. Ltd., Coimbatore.

Outcome:

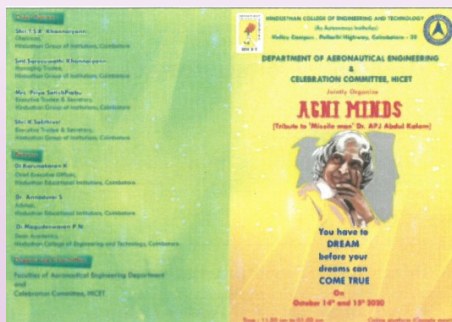
1. Students are able to understand the effects of corrosion on Aircraft components.
2. Students have understood the importance of corrosion prevention.

Remarks and Feedback on the Event: Seminar was very useful and the resource person was more interactive and provided various information about job opportunities in the area of corrosion prevention.



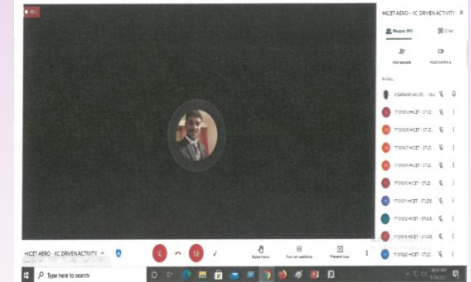
AGNIMINDS | Tribute to ' Missile man' Dr. APJ Abdul Kalam |

This event is conducted on 14th and 15th October. The outcome of the event is students had learned about India's Space missions and Advance Propulsion techniques, Research opportunities and Future scope on unmanned aerial vehicles, Innovations in Drone Technology, Skills to be developed post COVID as an Aeronautical Graduate..



IIC self-driven activity - startup opportunities in aviation on 29th JAN

Mr. Rajarajan G, Director, Aerozjet Aviation, Puducherry had shared his experience and ideas about Start-ups in Aviation through online webinar. The outcome of the webinar is Students acquired knowledge based on Scope of start-ups in Aviation, Government policies and DGCA regulations for start-ups in Aviation, Areas to concentrate and explore opportunities, Importance of skilled manpower for Growth and Approaching Investors and Finding agencies.



Three days Workshop on "Drone Development and Flying"

This workshop was conducted for 3 days on 17th to 19th FEB at UAV Lab the outcome of the event is Participants gained hands on knowledge in Drone development and Flying. Remarks and Feedback on the Event is Participants requested for more such workshops with application and seminars about job opportunities.



Advanced materials in aerospace

This webinar was conducted on 13th march through online the outcome of the webinar is that the webinar focused on application of advanced materials used in Aircraft Structures .Speaker also Explained the importance of emission control and other environmental goals for the future. The Remarks and Feedback on the Event is that it was a nice interactive session. The expert had shared many info and views about the advanced materials used in Aerospace applications.

Speakers:

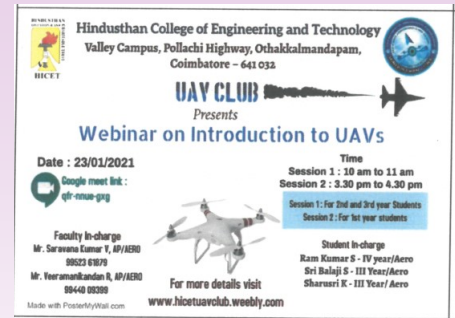
Dr. Jitendra Kumar Katiyar ,
Assistant Professor,
Department of Mechanical
Engineering,
SRM Institute of Science and
Technology, Chennai.



Webinar on Introduction to UAV's

This webinar was conducted on 23rd JAN through online the outcome of the event is Participants gained knowledge on basis of UAVs and Its classifications and the Remarks and Feedback on the

Event is Participants requested for a workshop on Drone development. First year students requested membership in UAV club.



Influence of reinforcement on composites properties for structural application of aircraft

Name and Designation of Resource Person(S):

Dr. Jitendra Kumar Katiyar

Assistant Professor

Department Of Aeronautical Engineering, SRM University, Chennai.

This event is conducted on 13/02/2021

The outcome of the event is students had understood the importance and uses of the composites materials

Two day work shop on CATIA with industrial approach

The outcome of the event is Students are able to understand the industrial approach in using design tools, they acquired knowledge in product life cycle development. This event is conducted on 22nd & 23rd march.



PLACEMENT DETAILS

| REG NO. | NAME | COMPANY |
|----------|---------------------------|--|
| 17101093 | SURESH KANNAN G | Indian Army |
| 17101029 | GOWDHAMKUMAR R | CD Advanced Composites Pvt. Ltd. |
| 17101028 | GOKUL RAJ K | BIJU'S |
| 17101089 | SRIHARI M | Ramco Systems Limited |
| 17101039 | JOTHIRAGHAV R | Dattendriya Data Science Solutions India Pvt. Ltd. |
| 17101025 | DIVYA T V | Ultramain Software India Pvt. Limited |
| 17101062 | NALLAPERUMAL RANGA RAJ | HCL Tech |
| 17101071 | OVIYA S | HCL Tech |
| 17101801 | NIRANJAN M | HCL Tech |
| 17101015 | ASWIN RAJ | iNoble Infoway Pvt. Ltd. |
| 17101003 | ABISHEK A | Garuda Aerospace Pvt. Ltd. |
| 17101006 | AJAY PRIYAN S | Garuda Aerospace Pvt. Ltd. |
| 17101007 | ALTHAF ARIF A | Garuda Aerospace Pvt. Ltd. |
| 17101012 | ARYAN ARAYADATH S | Garuda Aerospace Pvt. Ltd. |
| 17101020 | CHANDRAALAGUKANNAN K | Garuda Aerospace Pvt. Ltd. |
| 17101049 | LALITHA PRIYA B | Garuda Aerospace Pvt. Ltd. |
| 17101067 | NETHAJI R | Garuda Aerospace Pvt. Ltd. |
| 17101073 | PRASANNA R | Garuda Aerospace Pvt. Ltd. |
| 17101077 | RAMKUMAR S | Garuda Aerospace Pvt. Ltd. |
| 17101091 | SRIRAM V | Garuda Aerospace Pvt. Ltd. |
| 17101096 | TAMIZHSELVAN M | Garuda Aerospace Pvt. Ltd. |
| 17101095 | SYED AMEENUL ASLAM S | Ultramain Software India Private Limited |
| 17101034 | HARIHARAN R | Indian Air force |
| 17101022 | DEEPAK S | Vistara Airline |
| 17101090 | SRIKESI V | Tech Mahindra |
| 17101084 | SENTHIL NATHAN M | Indigo Airline |
| 17101060 | MUTHUKUMARAN M N | Capgemini Technology Services India Limited |
| 17101087 | SIVAKUMAR B | Capgemini Technology Services India Limited |
| 17101011 | ARUN PRASANTH S | Tech Mahindra |
| 17101045 | KATHIRVELAN R | CD Advanced Composites Pvt. Ltd. |
| 17101063 | NANDHAKUMAR N | CD Advanced Composites Pvt. Ltd. |
| 17101043 | KARTHICK S | CD Advanced Composites Pvt. Ltd. |
| 17101036 | JANANI P | Tech Mahindra |
| 17101065 | NAVEENRAJ N | TATA Consultancy Services Limited |
| 17101026 | DURAIRAJ E | TATA Consultancy Services Limited |
| 17101010 | ARAVIND S | TATA Consultancy Services Limited |

PLACEMENT DETAILS

| REG NO. | NAME OF THE STUDENT | EMPLOYEE NAME |
|----------|--------------------------|---|
| 17101001 | AASHISH M | TATA Consultancy Services Limited |
| 17101093 | SURESH KANNAN G | Indian Army |
| 17101013 | ASHOK KUMAR B | CD Advanced Composites Pvt Ltd |
| 17101004 | ADHISIVAN M | S&T Machine Tools Pvt. Limited (Vel machines) |
| 17101050 | MANISELVAN M | S&T Machine Tools Pvt. Limited (Vel machines) |
| 17101051 | MANJARI S | S&T Machine Tools Pvt. Limited (Vel machines) |
| 17101057 | MOOVENDHAN S | IndiGo Airline |
| 17101058 | MUGESH KUMAR S | IndiGo Airline |
| 17101076 | RAMKUMAR M | IndiGo Airline |
| 17101044 | KARTHIKEYANAGAMANICKAM V | Cognizant Technology Solutions |
| 17101056 | MONISHAA E | Cognizant Technology Solutions |
| 17101082 | SASIDHAR M | Cognizant Technology Solutions |
| 17101092 | SRITHAR P | Cognizant Technology Solutions |
| 17101094 | SURYAVELAN M | Cognizant Technology Solutions |
| 17101024 | Dinesh Gunasekar | Collins Aerospace |
| 17101066 | NEETHU S S | KG Information Systems Private Limited |
| 17101009 | ANUSHA MALLINI V | KG Information Systems Private Limited |

MOU

| S NO. | Firm Name | Date |
|-------|---|------------|
| 01 | Rehoboth Academy of Design, Madurai | 18.03.2021 |
| 02 | Sigma consultancy services , Coimbatore | 18.03.2021 |
| 03 | Vibrant NDT services Pvt Ltd, Chennai | 19.03.2021 |
| 04 | Aerosurfer Technovations, Coimbatore | 19.03.2021 |
| 05 | Mach Engineers, Coimbatore | 19.03.2021 |
| 06 | Planet X Aerospace, Madurai | 21.04.2021 |
| 07 | Government ITI, Coimbatore | 13.08.2021 |
| 08 | Dautya Aerospace Pvt Ltd, Bengaluru | 18.08.2021 |



FACULTY ACHIVEMENT

| S.NO | Event | Count |
|------|----------|-------|
| 1 | Workshop | 02 |
| 2 | Coursera | 56 |
| 3 | FDP | 56 |
| 4 | STTP | 24 |
| 5 | NPTEL | 09 |

