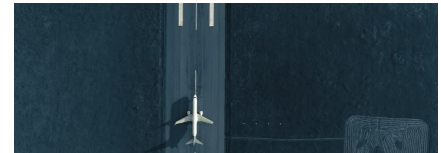




# Aero-Epistle

THE NEWS LETTER.....

VOLUME 16



NOV 2020

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## EDITORIAL BOARD

### CHIEF EDITOR:

Mr.V.T.Gopinathan, HoD /Aero

### Co - EDITOR:

Mr.R.Veeramanikandan, Assistant Professor /Aero

## STUDENT EDITORS

Raja Mohamed A - IV YEAR

Diviya T V - III YEAR



**Hindusthan**  
College of Engineering and Technology  
An Autonomous Institution

# 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 Mr.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.



## TOPGUN Competition

Our club members have participated in TOPGUN Competition, (National level fixed wing Aircraft building and flying competition) organized by NITTE Meenakshi Institute of Technology, Yelahanka, Bengaluru, held during 4th and 5th March 2020 and secured 8th Place.



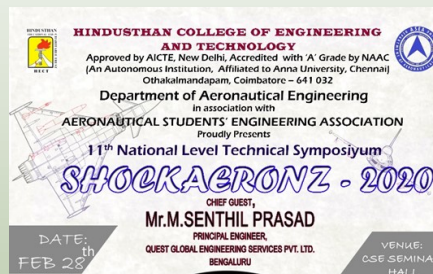
## Memorandum of Understanding with TASS Academy

Our Faculty Mr. Saravana Kumar V visited Barola Technologies, Chennai on February 14th 2020 as a part of Institute and Industry Interaction. During the visit latest developments in the field of UAS, like Mind control Drones and Gesture control drones were demonstrated. Barola Technologies are ready to support our students in all the possible ways.



## SHOCKAERONZ 2020

11<sup>th</sup> national-level technical symposium "SHOCKAERONZ 2020" was held on 28th of FEB. Mr. M. SENTHIL PRASAD (Principal engineer, Quest Global Engineering Services Pvt. Ltd, Bangalore) was the chief guest for the event. In this event students had participated and learned about water rocket, glider, paper presentation, and 3D Modelling etc..



## Two days Workshop on Drone Technology on 07th and 08th FEB

A two days workshop on drone technology was conducted to involve the students in the drone technology.

Students made little aircrafts with balsa wood. Also assembled various drone configurations to study the drones and its components



## Basic UAV Course (Design, Development and Flying) 20th to 24th JAN

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE  
DEPARTMENT OF AERONAUTICAL ENGINEERING  
Presents

In association with  
**TASS**  
TASS INSTITUTE OF TECHNOLOGY

SPEAKER  
Mr. G. RAVI KUMAR, Sel. Gdr. CAMI  
Director, Tamilnadu Academy of  
Science and Sports (TASS),  
Coimbatore.

**Five days Training Course on UAV Development**  
20.01.2020 to 24.01.2020 | 9.30 am to 4.30 pm | Design Project Lab



*The use of drones to improve public safety, agriculture and other uses will only increase*

## Women safety and awareness on kavalan app on 07th march

Though there are many safety apps for women this study focuses on kavalan app which was launched in 2018 by Tamil Nadu police to ensure women safety. Girls students were made aware of the app and made to install it and advised to use it properly.

## EXPLORING CAREER OPPORTUNITIES AND CHALLENGES IN CFD/CAE PROFESSION ON 16TH JUNE

Mr. JOVIN JOSE (Sr. CFD Thermal Design Engineer for GM Powertrain at Tata Consultancy Service, Hyderabad) was the resource person for the webinar. The outcome of the event is Students are very excited to learned importance of CFD and its applications, Many students are learned various tools used in CFD, Various job opportunities in CFD domain.

**HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Approved by AICTE, New Delhi, Accredited with 'A' Grade by NAAC  
(An Autonomous Institution, Affiliated to Anna University, Chennai)  
Coimbatore-641032

**DEPARTMENT OF AERONAUTICAL ENGINEERING**

Date 16.06.2020 @ 11am

AGNI MINDS presents  
Alumni webinar Series #4  
**"Exploring Career Opportunities and Challenges in CFD/CAE Profession"**

GUEST SPEAKER  
**Mr. JOVIN JOSE M. TECH.**  
Sr. CFD Thermal Design Engineer for GM Powertrain at  
TATA CONSULTANCY SERVICE  
Hyderabad.

**E - CERTIFICATE WILL BE PROVIDED FOR ALL PARTICIPANTS**

CONVENOR: Mr. V.T. Gopinathan, M.E., (Ph.D) HOD /AERO  
MODERATOR: Mr.R.Veeramankandam, AP/AERO 9944009399 / veera88@gmail.com  
CO-ORDINATOR: Mr. M. Megesh Kumar, AP /AERO 866735757 / magesh.aeron@gmail.com

## ADVANCES IN SPACECRAFT PROPULSION AND CAREER ASPECTS

Mr Rohan Ganapathy (CEO Bellatrix Aerospace, Bengaluru) was the resource person of the event and this event is conducted on 14th October .The outcome of the event is Students are able to understand the Importance of spacecraft propulsion.

**HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Valley Campus, Pollachi Highway, Coimbatore - 641 032

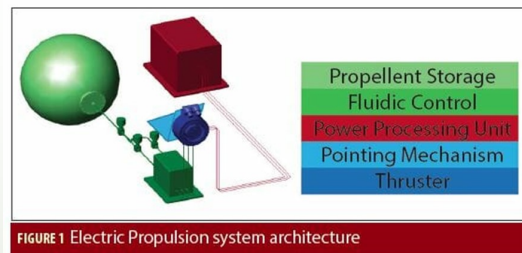
**Department of Aeronautical Engineering**

Presents  
**Aeronautical Students Engineering Association (ASEA) - Inauguration**

Chief Guest  
**Mr. Rohan M Ganapathy,**  
CEO,  
Bellatrix Aerospace,  
Bengaluru,  
(Our Prestigious alumnus)

Date : 14/10/2020 Time : 11.00 a.m

In association with



## CAREER PROSPECTS - AERONAUTICAL/MECHANICAL ENGINEERING

This webinar was conducted on 06th June through online the outcome of the webinar is that to make students get motivated by listening to the speech of successful Alumni, to create knowledge about online courses to opt and learn , to analyse the risk factors while searching for jobs, to make the students get connected with Alumni to clear up the doubts regarding the placement recruitment ,to encourage the young engineers to enhance their technical skills to get placed in companies.

**HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY**  
APPROVED BY AICTE, NEW DELHI, ACCREDITED WITH 'A' GRADE BY NAAC  
(AN AUTONOMOUS INSTITUTION, AFFILIATED TO ANNA UNIVERSITY, CHENNAI)  
COIMBATORE - 641032

**DEPARTMENT OF AERONAUTICAL ENGINEERING**

AGNI MINDS presents  
ALUMNI WEBINAR SERIES #1  
**"Career Prospects - Aeronautical/Mechanical Engineering"**

Date : 06.06.2020 Time : 16.00 - 17.00 (EST)

Coordinator: Veeramankandam AP/Aero/HICET  
Moderator: Ms.Saravana Kumar, V., AP  
Dept. of Aero/HICET

Guest  
**Gokul V**  
C.A. Analyst  
General Motors India, Bangalore

**Aviation**

- Aviation is the activities surrounding mechanical flight and the aircraft industry.
- Aircraft includes fixed-wing and rotary-wing types, morphable wings, wing-less lifting bodies, as well as lighter-than-air craft such as hot air balloons and airships.
- Hot Air Balloons , an apparatus capable of atmospheric displacement through buoyancy.
- Large step



# ONLINE WEBINAR SERIES ON UAV ON 26/07/2020

The outcome of the event is that the students gained knowledge on Design of a drone for specific applications, Implementation of Autonomous system in drones, About Electronic components selection and usage and On World's largest Drone Manufacturer DJI and its products.

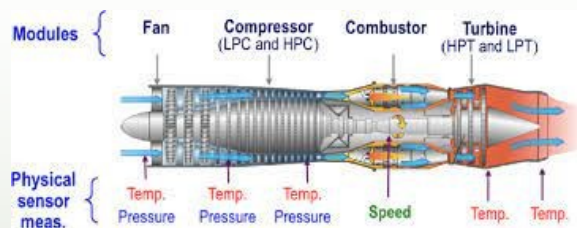
Remarks and Feedback on the Event is that the Students Requested Training program/workshops on Flight controller and Programming in DRONES.



Speaker interacting with the students

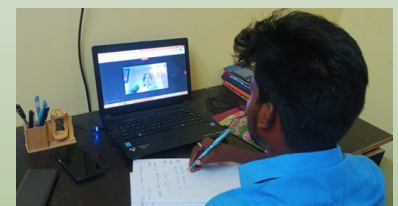
# ONLINE LECTURE SERIES ON AIRCRAFT PROPULSION

Mr. Suresh C (AP/Aero ,HiCET) was the resource person of the event. This event is conducted on 31th July to 02nd August .The outcome of the event is that the Students are able to understand the aircraft propulsion



# INTERVIEWS DO'S AND DON'TS 14TH JUNE

Mr. Sridhar K, Head, Campus To Corporate KNCET Groups was the speaker of the event . The outcome of the event is that the Participants gained knowledge on basis of Interview tips and tricks.





## PLACEMENT DETAILS

REG NO.	NAME	COMPANY
16101095	SUBRAMANI SANJEEV S	Larsen & Toubro Infotech Limited
16101080	RAVIRAJ A	HCL Tech
16101003	ABDUL KADHAR JAILANI J	ALTEN India Pvt. Ltd.
16101009	AJITH G	ALTEN India Pvt. Ltd.
16101041	JEEVANANDAN N R	ALTEN India Pvt. Ltd.
16101064	MUKESH M	ALTEN India Pvt. Ltd.
16101048	KAVI PRIYA G	Infosys Limited
16101084	SACHIN LAKSHMI NARAYAN C	Infosys Limited
16101086	SAKTHIPRAGADEESWARAN M	Infosys Limited
16101094	SRIRAM K	Infosys Limited
16101016	AMANA ROSELIN.P	Larsen & Toubro Infotech Limited
16101022	AVANIYAT	IndiGo Airline
16101088	SALOME NESA PRIYA E	Larsen & Toubro Infotech Limited
16101092	SIVASANKARAN A V	Larsen & Toubro Infotech Limited
16101602	KARTHICK V	Larsen & Toubro Infotech Limited
16101029	DEMETRIUS BAGGIO F	Collins Aerospace
16101063	MUHILAN M	Collins Aerospace
16101068	NAVEENKUMAR R	Collins Aerospace
16101075	Pradeep Palpandi	Collins Aerospace
16101083	Sabarish Sekar	Collins Aerospace
16101007	AJAY PRASATH P N	Vistara Airline
16101021	ARUNKUMAR M	Cognizant Technology Solutions
16101073	PRABAHARAN T	Cognizant Technology Solutions
16101030	DHANASEKARAN E	TATA Consultancy Services Limited

## PLACEMENT DETAILS

S NO.	Enrollment No.	Student Name	Employee Name
01	16101004	ABINASH KUMAR G S	TATA Consultancy Services Limited
02	16101026	CHATHURA GIRISH S	TATA Consultancy Services Limited
03	16101031	DINESH I	Garuda Aerospace Pvt. Ltd.
04	16101045	KAMESH V	Capgemini Technology Services India Limited
05	16101055	LOGANATHAN M	Garuda Aerospace Pvt. Ltd.
06	16101058	MEENU KURUVILLA	TATA Consultancy Services Limited
07	16101071	NIVETHA V	Larsen & Toubro Infotech Limited
08	16101081	REENA JOHN	Larsen & Toubro Infotech Limited

## FACULTY ACHIEVEMENT

S.no	Event	Count
1	Workshop	01
2	STTP	11
4	NPTEL	06

# MOU

S No.	Firm Name	Date
01	Tamilnadu Academy of Science and Sports , Coimbatore	21.01.2020

