



Nehru Institute of Technology

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

ALBATROSS -2019-20

(E-News Letter)

Sky is the Limit

Department of Aeronautical Engineering

Our Motto is “Indian in character, International in Excellence”

Newsletter is an amalgamation of all the events held in the Department and it plays an instrumental role in providing a greater exposure of the achievements accomplished by the students and the faculty.

Principal's Message:

As students are the members of a progressive society, the teachers shall not fight today battle with yesterday's weapon, but they must prepare them to face all the eventualities of life. Thus teachers are the architects of a country. Consequently the true education should deepen our insight, widen our horizon and create a meaningful outlook. Equally the students are fortunate enough to have born in a free nation, with all the facilities to shape their career in such a way, that they should be part of a good and healthy society with progressive attitude towards divinity.



From the Editor's Desk



News Letter for the academic year 2019-2020.

The objectives of the news letter is to mainly focus on the

- Achievements of the Students and Faculty members from the Aeronautical dept in various Curricular, Co-curricular and Extra-curricular Activities.
- Placement of students in Campus drive.

I congratulate all my Team Members for their constant efforts in launching this News Letter. We are very Grateful to our Management and Principal for their Support and Encouragement.

Editorial Student Members

1.Ahamed Kamarudeen- IVth Year

2.P.Uvaraj – IIIrd Year

3.A.Konsa Jorin –IInd Year

About the Department

The department has a group of 7 well qualified and experienced Professors and dynamic young staff who hold their master degrees in their area of interest from renowned institutions. Among them, one of the faculties has obtained their Ph.D. and one other are now pursuing. Faculties published papers in their research domains.

The department has full-fledged and well-established laboratory facilities. Aerodynamics laboratory has equipment like Pulse jet engine and ram jet engine apart from equipment required for curriculum. Aero engine lab has all type of engine; Propulsion Laboratory is fully equipped with list of equipment as prescribed by the affiliated university. In the CAD/CAM, latest versions of CATIA, SOLIDWORKS, ANSYS, and CNC Software are available for students. Internet facility has been enabled in many computers for the faculty to effectively search for useful study materials. Aircraft system laboratory is provided with Cessna aircraft with aviation instruments.

The department has well equipped class rooms with necessary teaching aids viz., LCD projectors in order to enable power point presentations for specific/necessary lecture topics.NPTEL videos. There are also OHP available for presentations.

The department has signed MoU with the LEADING organizations/industries in the city. The nature of MoU is enriching technical education imparted to students, adoption of advanced technology for design solutions, regular exchange of resource and knowledge and joint programmers.

In the view of enhancing the practical knowledge of the students in-plant trainings and Industrial visits are arranged regularly in and around Coimbatore. In order to enable students easily face the placement procedures and interview processes, they are being trained on the soft skills enhancement, and inter – personal programmers namely Value-Added Programmers along a part of their curriculum.

Vision of Department

To mould the aeronautical students to achieve the excellence in the field of technical education, research, innovation, entrepreneurship and industry related development to meet the challenges in society.

Mission of Department

- To impart high quality technical education and unique interdisciplinary experiences.
- To promote research, innovation and entrepreneurship culture among students for the benefits of society.
- To collaborate with industry and institute for technology up-gradation.

Valued Added Programs

Name of Add on /Certificate programs offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year
Add on Course						
LibreOffice Suite Draw	Nil	2020	1	30 hours	61	61
CFD	Nil	2020	1	30 hours	67	67
VAP						
Computational Fluid Dynamics (CFD)	AEVAP004	2020	1	30 hours	62	62
CATIA	AEVAP001	2019	1	30 hours	74	74

Programs Organized by the Department

AERO Association Inaugural Function



S.No	Name of Event/Program	Date
1.	Student association inaugural.	19/09/2019
2.	GATE awareness programme.	21/01/2020
3.	Glider workshop.	18/03/2020.
4.	A webinar on Space Research.	29/07/2020
5.	National level webinar on opportunities for aeronautical engineers in various domains	14/10/2020
6.	International webinar on computation fluid dynamics.	04/05/2020
7.	EnterPreneurship awareness camp.	11/02/2019 - 13/02/2019
8.	One day seminar on startup opportunities.	06/09/2019
9.	One day seminar on IPR and patenting processes	12/03/2020
10	One day seminar on research methodology	10/09/2020

IPR:

Attended one day workshop “**Intellectual Property Rights & Innovation**” on 21/09/2019, Dr.M.Kantha Babu.Ph.D.(IITM) director of Centre of Intellectual Property right Anna University Chennai. Organized by chenduran College of Engineering and Technology.



Papers Publication in Journals

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
Design and Analysis of Novel UAV	M. Venkatachalam	Aeronautical Engineering	International Journal of Electrical Engineering and Technology	2020-2021	0976-6545
Design and Analysis of Novel UAV	Saranya P	Aeronautical Engineering	International Journal of Electrical Engineering and Technology	2020-2021	0976-6545
Design and Analysis of Novel UAV	Karthi P	Aeronautical Engineering	International Journal of Electrical Engineering and Technology	2020-2021	0976-6545
Influence of Capillary diameter on the performance of domestic refrigerator by using HC blend as refrigerant	R. Nesalingam	Aeronautical Engineering	International Journal of Advanced Research in Engineering and Technology	2020-2021	0976-6480

Influence of Capillary diameter on the performance of domestic refrigerator by using HC blend as refrigerant	T. Banu	Aeronautical Engineering	International Journal of Advanced Research in Engineering and Technology	2020-2021	0976-6480
Experimental Investigation of Gyroscopic Couple by Response Surface Methodology	Allocious Britto Rajkumar R	Aeronautical Engineering	International Journal of Research in Engineering, Science and Management	2019-2020	2581-5792
Experimental Investigation of Gyroscopic Couple by Response Surface Methodology	S. Selvakumar	Aeronautical Engineering	International Journal of Research in Engineering, Science and Management	2019-2020	2581-5792
Investigation on drag Reduction using Aerospikes on CFD	T.Banu	Aeronautical Engineering	International Journal of Research in Engineering, Science and management	2019-2020	2581-5792
Experimental Investigation on Mechanical behaviour of Banana, coconut & glass fibre reinforced composites	T.Banu	Aeronautical Engineering	International Journal of Scientific Research and Engineering development	2019-2020	2581-7175
Comparative Study on Effective Turbulence Model for NACA0012 Airfoil Using	Mohammed Raffiq N	Mechanical Engineering	International Journal of Trend in Scientific Research	2019-2020	2456-6470

Spallart – Allmaras as a Benchmark			and Development		
Comparative Study on Effective turbulence model for NACA0012 Airfoil using Spallart-Allmaras as a Benchmark	R. Allocious Britto Rajkumar	Aeronautical Engineering	International Journal of Trend in Scientific Research and Development (IJTSRD)	2019-2020	2456 – 6470
Study on Various Types of Nose Cone Profiles at Supersonic Speed through Analytical, Experimental and Numerical Simulation Methods	Rosy Subha Hannah R	Aeronautical Engineering	Journal of Xidian University	2019-2020	1001-2400
Aerodynamic analysis of seamless horizontal stabilizer	Banu, T	Aeronautical Engineering	International Journal of Advanced Research in Engineering and Technology	2019-20	0976-6480
Flow analysis through convergent-divergent nozzles	Selva kumar S	Aeronautical Engineering	International Journal of Advanced Research in Engineering and Technology	2019-20	0976-6480

Flow analysis through convergent-divergent nozzles	Banu T	Aeronautical Engineering	International Journal of Advanced Research in Engineering and Technology	2019-20	0976-6480
AERODYNAMIC ANALYSIS OF SEAMLESS HORIZONTAL STABILIZER	Banu T	Aeronautical Engineering	International Journal of Advanced Research in Engineering and Technology (IJARET)	2019-20	0976-6499
AERODYNAMIC ANALYSIS OF ORNITHOPTER	Saranya P	Department of Aeronautical Engineering	International Journal of Advanced Research in Engineering and Technology (IJARET)	2019-20	0976-6499
AERODYNAMIC ANALYSIS OF ORNITHOPTER	A. C. Ram Kumar	Department of Aeronautical Engineering	International Journal of Advanced Research in Engineering and Technology (IJARET)	2019-20	0976-6499
VIBRATION CONTROL OF HELICOPTER USING ANTI-RESONANCE ISOLATION SYSTEM (ARIS)	R Mohankumar	Aeronautical Engineering	International Journal of Advanced Research in Engineering and Technology	2019-20	0976-6499

			Technology (IJARET)		
VIBRATION CONTROL OF HELICOPTER USING ANTI-RESONANCE ISOLATION SYSTEM (ARIS)	S Selvakumar	Aeronautical Engineering	International Journal of Advanced Research in Engineering and Technology (IJARET)	2019-20	0976-6499

Faculty Development Program

MR. NESALINGAM R	Participated Five Dys online Faculty Development Programme on "Technology Based Teaching and Learning Systems "	19/11/2019 to 23/11/2019
MRS. BAIRAVI S	Participated Five Dys online Faculty Development Programme on "Technology Based Teaching and Learning Systems "	19/11/2019 to 23/11/2019
MR. PAUL AROKIAM S	Participated Five Dys online Faculty Development Programme on "Technology Based Teaching and Learning Systems "	19/11/2019 to 23/11/2019
MS.JAYALAKSHMI V	Participated Five Dys online Faculty Development Programme on "Technology Based Teaching and Learning Systems "	19/11/2019 to 23/11/2019
MR. ALLOCIOUS BIRITTO RAJKUMAR R	Participated Five Dys online Faculty Development Programme on "Technology Based Teaching and Learning Systems "	19/11/2019 to 23/11/2019
MRS. TRESA HARSHA P	Participated Five Dys online Faculty Development Programme on "Technology Based Teaching and Learning Systems "	19/11/2019 to 23/11/2019
MR.MAGESHWARAN S	Participated Five Dys online Faculty Development Programme on "Technology Based Teaching and Learning Systems "	19/11/2019 to 23/11/2019
MS. SARANYA P	Participated Five Dys online Faculty Development Programme on "Technology Based Teaching and Learning Systems "	19/11/2019 to 23/11/2019
MRS. BANU T	Participated Five Dys online Faculty Development Programme on "Technology Based Teaching and Learning Systems "	19/11/2019 to 23/11/2019

MS. ANTONY DASNIVAS JASMINE B	Participated Five Dys online Faculty Development Programme on "Technology Based Teaching and Learning Systems "	19/11/2019 to 23/11/2019
MS. ROASHY SUBHA HANNAH R	Participated Five Dys online Faculty Development Programme on "Technology Based Teaching and Learning Systems "	19/11/2019 to 23/11/2019
MR. KARTHI P	Participated Five Dys online Faculty Development Programme on "Technology Based Teaching and Learning Systems "	19/11/2019 to 23/11/2019

TEACHER'S DAY CELEBRATION ON SEPT 05 2019





INDUSTRIAL VISITS





- Six days Industrial Visit for III & IV AERO at HAL , from 06.08.2019-09.08.2019.

AERO STUDENTS ASSOCIATION INAGURATION & DRONE CLUB (20-09-2019)





Samsung Triple camera
Shot with my Galaxy A50