



EXCEL ENGINEERING COLLEGE

(Autonomous)
KOMARAPALAYM-637303

DEPARTMENT OF AERONAUTICAL ENGINEERING ARHAKRZ 2K21-22 NEWSLETTER

VOLUME I ISSUE 1

VISION

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

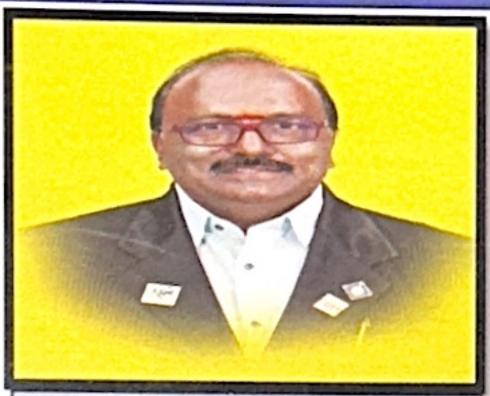
MISSON

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 developments of the students for coming dynamic and autical engineers.

To initiate desires for under taking entrepreneurship and lifetong learning. CHAIRMAN'S MESSAGE



Aeronautical Engineering is one of the prime branches of engineering that deals with the study and development of new technology in the field of Aviation, Space exploration and in defense This branch include the study of testing, Designing, Construction, maintenance of Commercial aircraft, spacecraft and missiles well as their companions.

VICE-CHAIRMAN'S MESSAGE



Department of Aeronautical Engineering has always brought pride to our institution. I congratulate the aero department releasing the Arhakrz newsletter for this month and I encourage the student s to work towards excellence, to gain more knowledge and to learn about the latest developments in the field of aeronautics

PRINCIPAL'S MESSAGE



My heartiest congratulation to the department of aeronautical engineering, for publishing the department newsletter portraying the academic activities of the department. In the area of outcome based education, empowering the students is the trust area to be addressed in the professional institution. I earnestly wish that this new publication turns out to be a resounding success

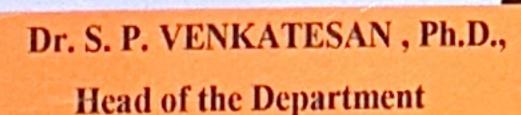
Dr. A. K. NATESAN mn., MBA., M. Phil.,

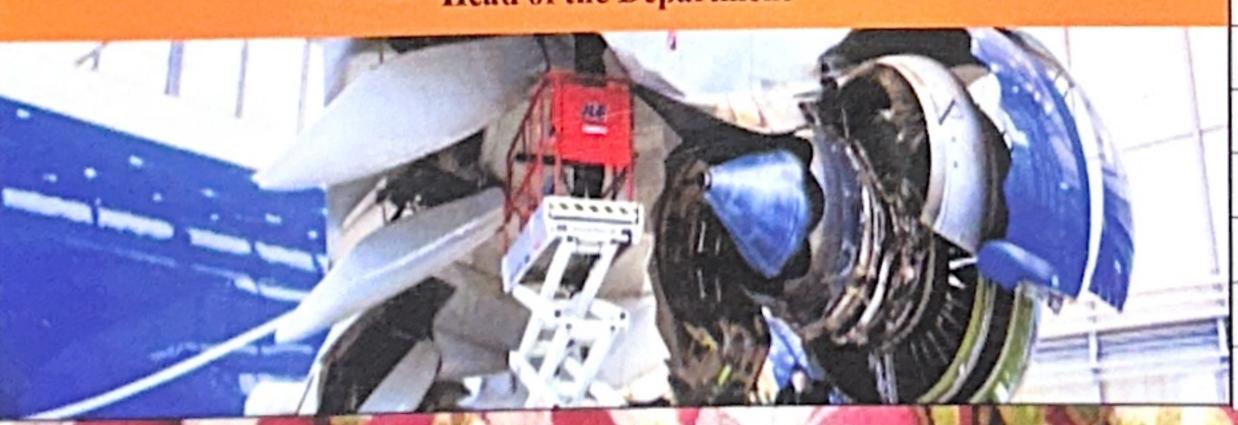
Dr. N. MATHAN KARTHIK M.B.B.S., M. H. Sc.,

ammenci

Dr. K. BOMMANNA RAJA Ph.D.,

Aeronautical engineering is a fascinating and high technology discipline more then 100 years old, requiring much more contribution from engineers and scientist to broaden its scope and application to develop next generation hypersonic aircraft, reusable space craft, launch vehicles etc., my best wishes and greetings to all the students who are aspiring to become aeronautical engineers and take India to the for front of developed nations.





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DEPARTMENT NEWS

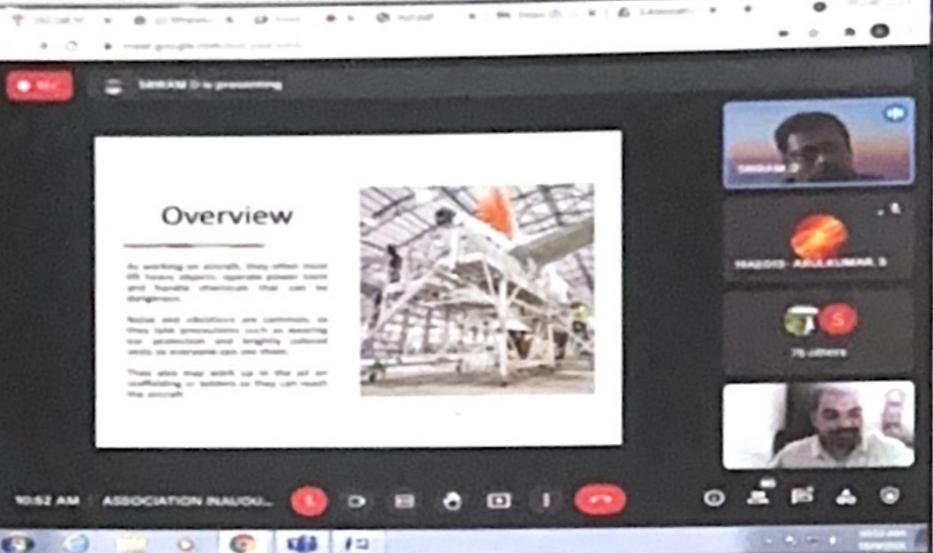
The Department of Aeronautical Engineering has conducted a webinar on "Additive manufacturing and sustainability" on 13/11/2021 in online mode.

Chief Guest: Mr.J.Abdullah

chief technical officer

Coimbatore Cad solutions Pvt.Ltd.

No. of participants: 70



Workshop on "Health and safety issues in Aircraft Maintenance Engineering" has

Conducted on 09/10/2021 in online mode.

Chief Guest: Senior Software engineer, TATA Advanced systems limited, Bangalore.

No. of participants: 112

Additive Manufacturing

Sustainable Design

Seminar on "Importance of innovation and research publications" has organized for Aeronautical students on 18/09/2021 in online mode

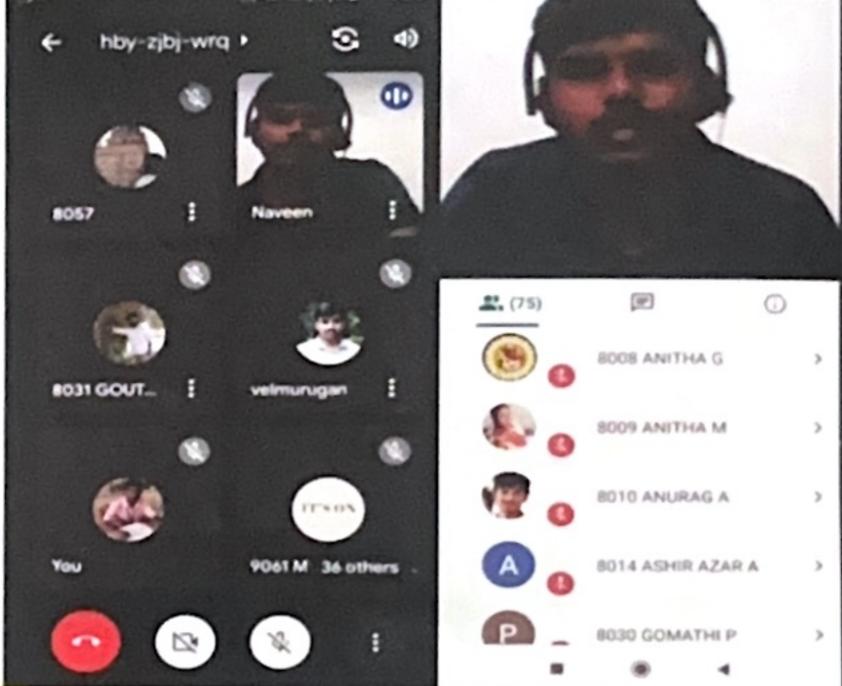
Chief Guest: Mr.Naveen Eswaramoorthy

Mechanical Engineer (Onesubsea)

Cameron Manufacturing India Pvt.Ltd

Coimbatore.

No. of participants: 75



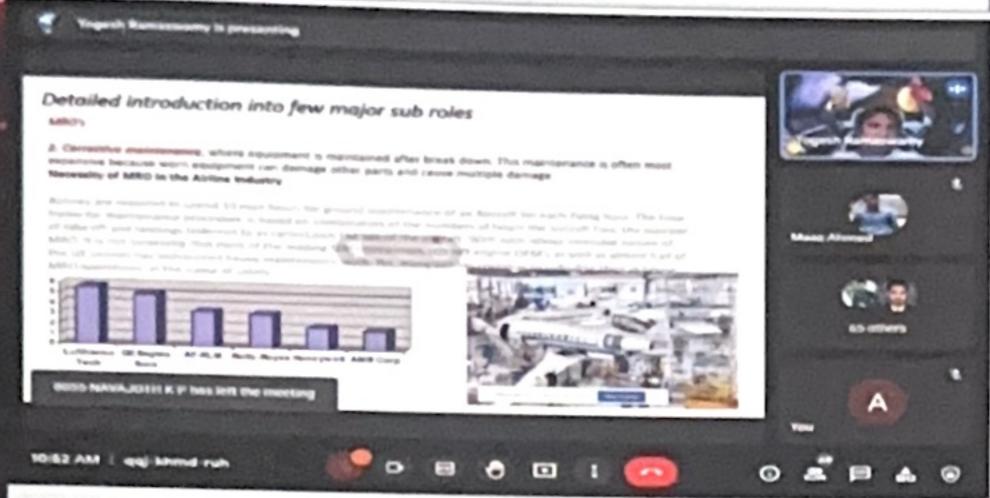


DEPARTMENT & ASSOCIATION NEWS

A Guest lecture has conducted on "Finite Element Methods" for III year students on 07.05.2022 at Google Platform at 10am

Chief Guest: Prof. P. Anbarasu, Sri Sai Ram Engineering College, Chennai.

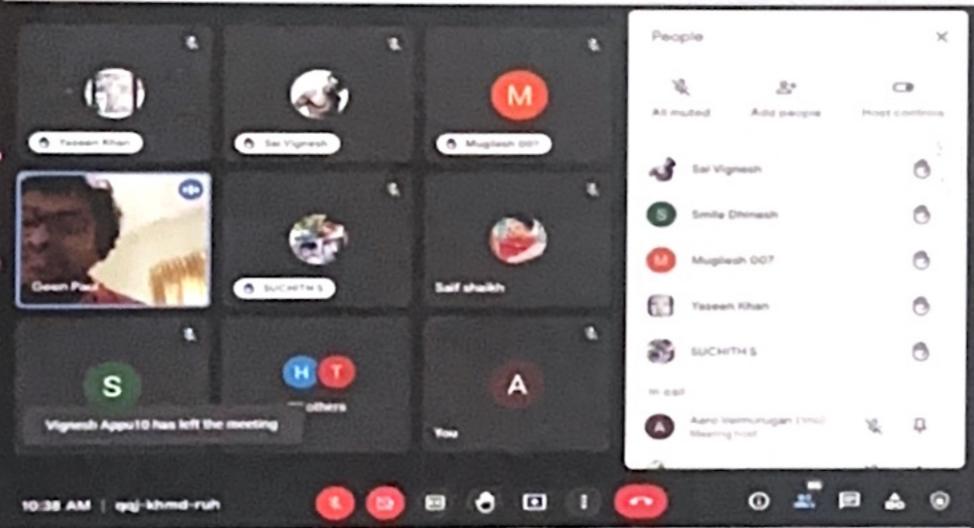
No of participants : 80



A Guest lecture has conducted the topic of "Aircraft Systems And Avionics" for Final year students on 17.12.2021 at Google Platform at 10am

Chief Guest: Dr. U. S. Paul Russel, General And Training Manager, Air India Engineering Service Ltd., Mumbai.

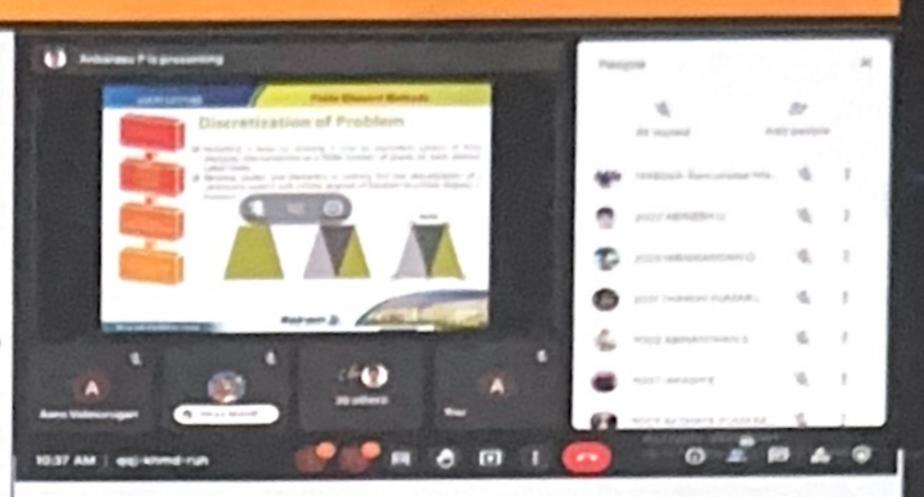
No of participants : 101



A Guest lecture has conducted the topic of "Fans And Compressor on Civil Aero Engines" for Final year students on 26.11.2021 at Google Platform at 10am

Chief Guest: Mr. Yogesh Ramaswamy, Project Manager, Calidus Land Systems, Abu Dhabi, UAE.

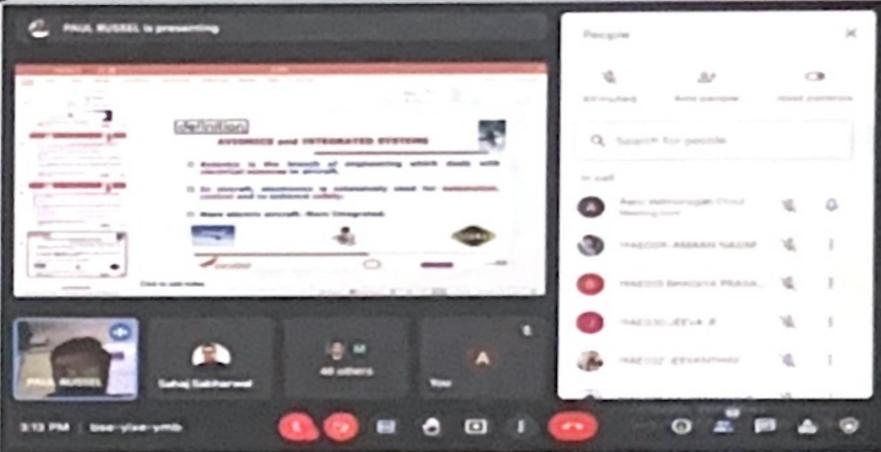
No of participants : 101



A Guest lecture has conducted the topic of "Scope And Opportunities in Indian Aerospace Sector" for III year students on 02.04.2022 at Google Platform at 10am

Chief Guest: Mr. Yogesh Ramaswamy, Project Manager, Calidus Land Systems, Abu Dhabi, UAE.

No of participants: 78

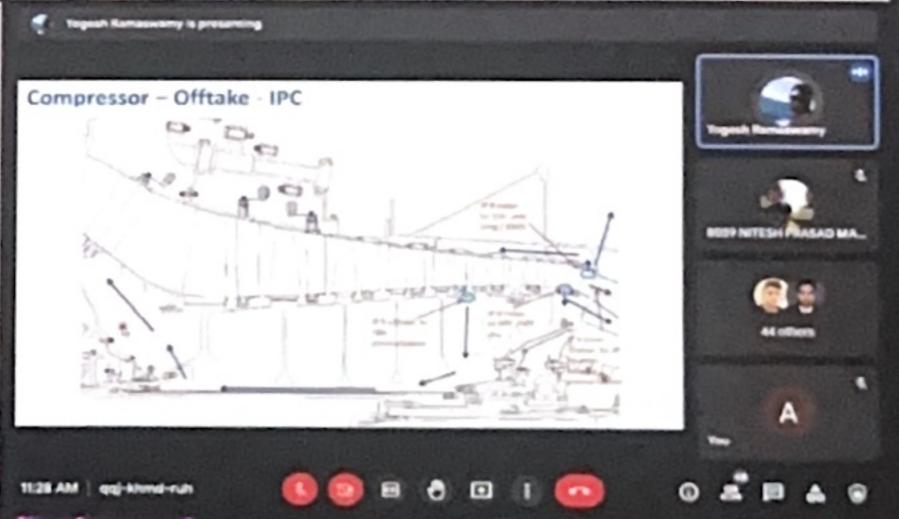


"Career Opportunities in Aircraft

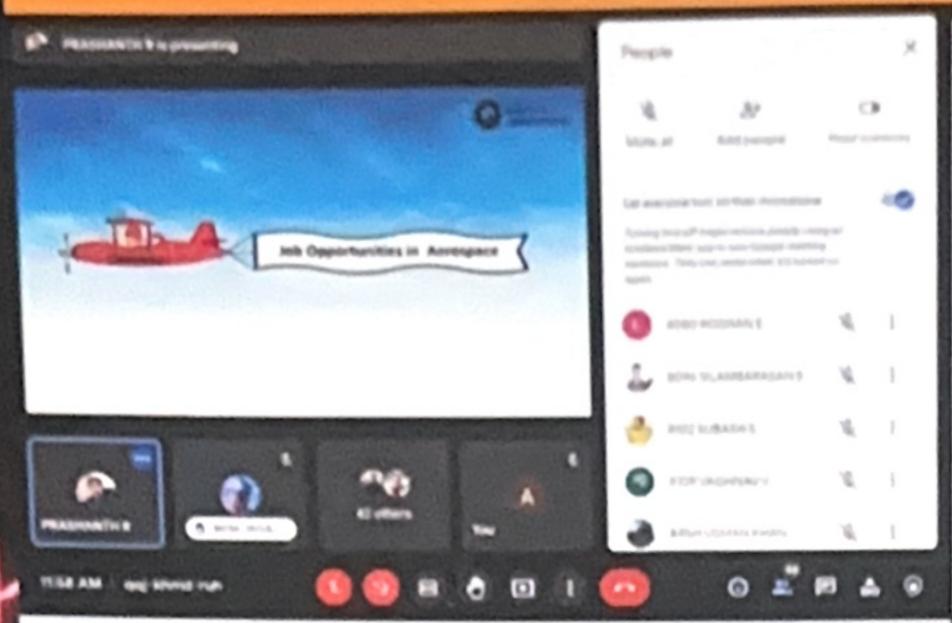
Industry "Seminar was conducted for our students on 04.12.2021 at Google Platform.

Chief Guest: Mr. Geen Paul, Senior aerodynamicist, Mercedes-Benz India Pvt. Ltd., Bangalore.

No of participants : 102



DEPARTMENT & ASSOCIATION NEWS



A Guest lecture has conducted on "Challenges and Opportunities in Aviation" for II year students on 20.11.2021 at Google Platform at 10am

Chief Guest: Mr. Prashanth Radhakrishnan,
CEO & Founder, Dautya Aerospace Pvt. Ltd., Goa.

No of participants: 60

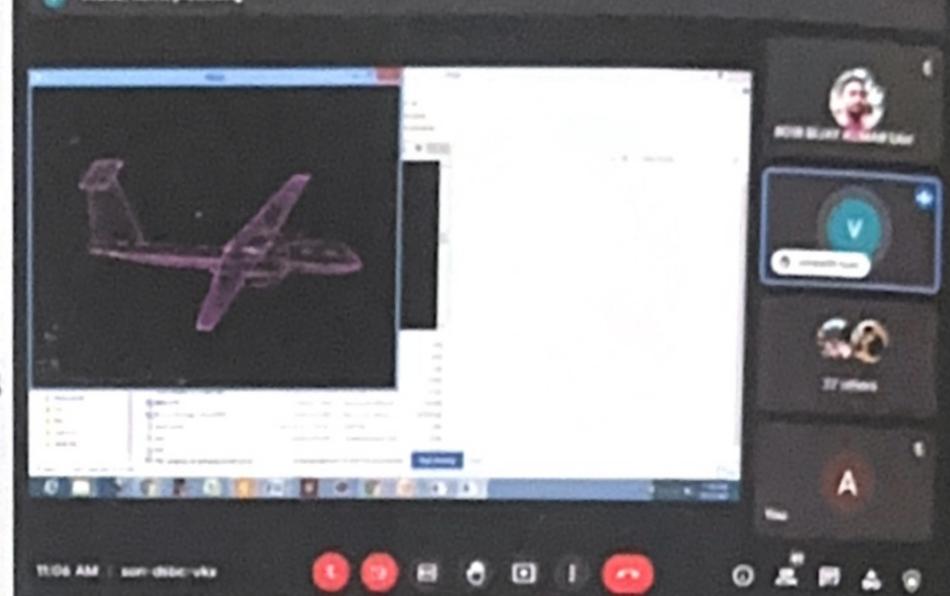
A Guest lecture has conducted on "Computational Fluid Dynamics - An Approach for Research" for Final year students on 23.10.2021 at Google Platform at 10am

Chief Guest: Mr. Vineeth Tom,

Senior Software Engineer, TATA Advanced Systems Ltd., Bangalore.

No of participants: 93





"ARHAKRZ Association

Function" was conducted for students on 09.10.2021 at Google Platform.

Chief Guest: Mr. Vineeth Tom,

Senior Software Engineer, TATA Advanced Systems Ltd., Bangalore.

No of participants : 112

"Overseas Opportunity for Higher Studies" An Awarness Program was Conducted for student on 28.09.2021 at Google Platform.

Chief Guest: Mr. Sayed Osama,

Business Development Consultant, Staar United Inc., Mumbai.

No of participants : 74



SL.NO	Activity organized	NO'S
1	Academic activity organized	03
2	Non- Academic activity organized	03
3	Association activities	01
4	Guest Lectures Organized	06





This is to certify that RAHULRAHAVENDRAN M of Excel engineering college has Participated in the Event of CADD MODELLING_has secured Best Performer in the National Level Technical Symposium - SOLIDUS-2K21 on organized by Department of

Mechanical Engineering, of Er. Perumal Manimekalai college of Engineering, Hosur - 635117 on 26th October 2021.

BW COORDINATOR Mr.K.Udhayakumar

CONVENER Dr.P.Rajasekaran

PRINCIPAL Dr.S.Chitra

Made for free with Certify'em

CERTIFICATE NO- SRI-OT01-22440015301



CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

AKSHAYA KUMARAN P

Has successfully participated one day virtual workshop on "DRONE DESIGNING AND MANUFACTURING" conducted on 09th Apr 2022



HIMANSU SEKHAR PANDA



NIHAR RANJAN PANDA CTO DEYF SIDER WESTERSTONS





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presented to

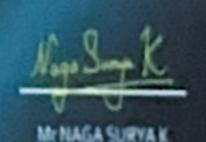
Mr Aravind M

Student - Excel Engineering college

for participating in the webinar of title - "SPACE DEBRIS MANAGEMENT" with Prof R.Arunachalam - Scientist | URSC as a speaker conducted by TEAM 2020 community on 7th August 2020

07-08-2020

DATE



M: MOAZ HUSSAIN **Hastitis**



ARHAKRZ NEWLETTER 2K22

Awards Received

Best Project Award



CP

Concord Helmet & Safety Products Pvt. Ltd.

Manufacturers of Safety Helmats & Accessories

29.64.2022

BEST PROJECT COMPLETION AWARD

This is to certify that GOUTHAM.T Final year AERONAUTICAL STUDENT from EXCEL ENGINEERING COLLEGE, NAMAKKAL has been awarded Best Project Completion Award for RECYCLING OF THERMOSETTING COMPOSITE at our Factory CONCORD HELMET AND SAFETY PRODUCTS PVT LTD., Tiruchirapalli from 15th March, 2022 – 5th April, 2022.

Authorized signature & seal

115/6B, Devarayaneri, Asoor Post, Near Thoovakudi, Trichy - 620 015. Tamiinadu, INDIA. Cell : 97509 96430, 94448 10010 E-mail : capitd@vanl.com, chappt@gmail.com

Paper Publication





Journal of Emerging Technologies and Innovative Research

An International Open Access Journal Peer-reviewed, Refereed Journal www.jetir.org | editor@jetir.org An International Scholarly Indexed Journal

Certificate of Publication

The Board of

Journal of Emerging Technologies and Innovative Research (ISSN: 2349-5162)

Is hereby awarding this certificate to

Sangilipandi M

In recognition of the publication of the paper entitled

DESIGN AND ANALYSIS OF HYBRID ROCKET ENGINE TEST FIRE BY
USING HONEY COMB PARAFFIN WAX

Published In JETIR (www.jetir.org) ISSN UGC Approved (Journal No: 63975) & 7.95 Impact Factor
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JET1R2206206

Research Paper Weblink http://www.jetr.org/view?paper=JETIR2205205 Registration ID : 401819

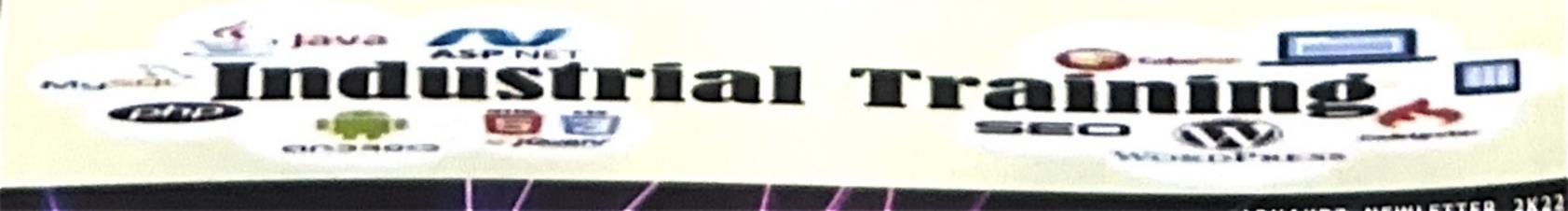
An International Scholarly Open Access Journal, Poor-Reviewed, Referred Journal Impact Factor Calculate by Geogle Scholar and Sanuaric Scholar | Ai-Pewarel Research Test.
Multidisciplinary, Montile, Multideopoope Journal Indusing in All Major Satabase & Metadata, Citation Geography

INDUSTRIAL VISIT / INPLANT TRAINING



NEWS FOR IN-PLANT TRAINING

	SI.	No INDUSTRY NAME	NO. OF STUDENTS ATTENDED TRAINING
	1	Air works, Hosur	02
	2	Alembic Pharmaceuticals Limited, Sikkim	01
	3	Amaranths Engineering Industries, Trichy	02
	4	Autodesk	01
	5	Barola Technologies, Chennai	08
	6	Carnets, Thiuchengode	02
	7	Codebind Technologies, Chennai	04
	8	J&J Engineering Works, Bangalore	01
	9	Jayasri CNC Technology, Hosur	01
	10	Jet Aero space, Palakad	10
	11	Kaashv Infotech, Chennai	11
	12	Litz Tech, Coimbatore	10
	13	N. Maghalingam and company, Erode	01
	14	Nexgen Instruments, Erode	03
	15	Preci cut Technology, Chennai	01
	16	S.K Ramu Motors, Sankarapuram	02
1	17	Sakthi Auto components, Tirupur	03
1	.8	Sans Innovations	05
1	9	Sree vasaa Printech Pvt Lmt, Tirupur	01
2	0	Taneja Aerospace, Krishnagiri	01
2	1	The creators Industries, Erode	02
22	2	Tuf coates, Hosur	01
23	3	TVS training and service, Chennai	03
24		Uniq Technologies. Chennai	22
25		Vijay Agro Pipe Industries, Salem	03

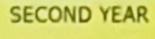


STUDENT FACILITIES



TOPPERS COLOUMN

ACADEMIC ACHIEVERS IN COLLEGE LEVEL- 2021-22



GOWTHAM.N

SECOND YEAR

SUGANTHI.U





THIRED YEAR-A

MITHUN.M

THIRED YEAR-B

VIVEKA.K





FINAL YEAR-A

BIJAY KUMAR SHA

FINAL YEAR-B

SAMEER ANSARI









ACADEMIC ACHIEVERS IN SECTION LEVEL- 2020-21



ISTE BEST STUDENT AWARD
SINDHU
PAVITHRA



ARHAKRZ NEWLETTER 2K2

AERO GOVERNANCE

CLASS MONITORING

LAB MONITORING

MENTOR HOURS

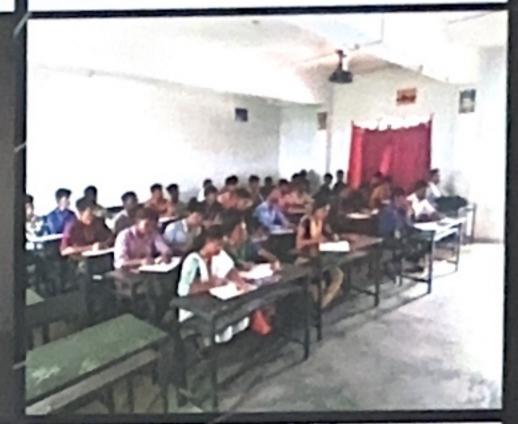
Every day classes are monitored by The lab hours are monitored by HOD and class notes are checked thoroughly.

the HOD. The students re trained to answer the viva questions

The understand the personal and academic needs of the students and to counsel them, mentor hours are set apart every week



MOTIVATION HOURS ONE TO ONE INTERATION



CLASS COMMITTEE MEETING

Periodically one to one interaction. Once in every week, Two hours is being conducted for SWOT anal- is decided to motivate the stuysis.

dents and encourage them to develop and aim for the star.

Representative from each class take part in the CCM conducted thrice in a semester in which all the class issues are stated and discussed



mail of Abstract: @invitem20226ignal.ord

Student Co-ordinators

Mr.T.Goutham (7708789668)

Head of the Department

Dr. S.P. Verkisteson, M.E., Ph.D.

Staff Co-ordinators

Prof.G.Velmurugan (77/5095748)

Prof.D.70x8vet (%00x8770)

ACTIVITY HOURS

Once in every week, Two hours is decided to motivate and different aspect of the students and encourage them to develop and aim for the star in various aspect.





ARHAKRZ NEWLETTER 2K22

Faculty column

Faculty participation in various Events

	数高价。因此,	the state of the s	
SL. NO	Name of the faculty	Designation	FDP / Seminar / Conference / Workshop / Webinar / NPTEL / Online course Industrial / Training
1	Dr. S. P. Venkatesan	HoD	04
2	Dr. P. Karunakaran	Professor	05
3	Dr. M. Gowtham	Asst. professor	02
4	Mr. N. Srcenivasaraja	Asst. professor	04
5	Mr. K. Vijayababu	Asso. Professor	02
6	Mr. S. Balasundram	Asst. professor	03
7	Mr. S. Prabu	Asst. professor	04
8	Mr. G. Velmurugan	Asst. professor	03
9	Mr. D. Vadivel	Asst. professor	04
10	Mr. S. R. Arun	Asst. professor	02
11	Mr. S. Karthik	Asst. professor	05
12	Mr. S. Prasanth	Asst. professor	02
13	Mr. M. Sanjay	Asst. professor	04
14	Mr. M. G. Rajagopal	Asst. professor	04
15	Mr. J. Senthil kumar	Asst. professor	03
16	Mr. Arun S. Pillai	Asst. professor	03
17	Mrs. M. Divya	Asst. professor	04
	AND IN THE PERSON NAMED IN	//	AND THE RESIDENCE OF THE PARTY

Faculty column

Research and development

		/	
S	TITLE OF THE PROPOSAL	FUNDING AGEN- CY	AMOUNT SANCTIONED IN RUPEES
1	Implementation characteristic study of the mold prepared using industrial waste	AICTE-RPS	10,48,333
2	A Six Day Program on Science and Technology Capacity Building for Industrial Needs.	TNSCST	1,50,000
3	Tracking of Light Aircraft at low attitude using smartphone	TNSCST	7,500
4	GPS and Sensor Using Wildlife animal Tracking System	TNSCST	7,500

Excel Engineering College



The Excel Engineering College – Komarapalayam, was organized Tamil Nadu State Council for Science and Technology supported 6 days training program on "Science and Technology Capacity Building for Industrial Needs" in two phases during the period. Phase I: 24th, 25th & 28th March, Phase II: 29th to 31st March. Dr.P.Karunakaran, Program coordinator welcomed the chief guest and participants. The chief guest Mr.R.Premanand, VP, Jai Ho Entrepreneur Academy Pvt. Ltd., Pondicherry delivered the inaugural address for the program. Dr.N.Mathan Karthick, Vice Chairman, Excel Group Institutions delivered special address and Dr.K.Bommanna Raja, Principal delivered the Presidential Address.





(AUTONOMOUS)

Approved by AETE, New Dolts & Attituted to Anna University, Chemical Incoreditated by NBA (AERO, MECH, CSE & EDE), NAAC (A* Grade - 3.26) and Recognized by USC (2f & 128)

CENTRE FOR INDUSTRIAL RELATION AND RESEARCH PROJECTS

CONGRATULATIONS!

Seven Projects Selected for

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

STUDENT PROJECT SCHEME 2021-2022
LIST OF FUNDED PROJECTS

GPS and sensor using wildlife animal tracking system

Mr. N. Sreenivasaraja Assistant Professor

Department of Aeronautical Engineering

Ajith M | Arjun P Ashir Azar A | Hariharan L.S.

Tracking of light aircraft at low altitudes using smart phone

Mr. M. Sanjay Assistant Professor Department of Aeronautical Engineering

Kuberan B | Raguraj | Rajkumar A | Sashyapravoen M

Intelligent emission controller for vehicles

Dr. N. Venkatachalam
Associate Professor

Department of Mechanical Engineering

Muthukrishnan R | Jaya Prasanth V Vijay S | Manikandan R

Design and fabrication of gearless transmission system for automobiles and industrial machines

> Dr. S. Balakrishnan Assistant Professor

Department of Mechanical Engineering

Dineshkumar 5 | Govindaraj 5 Gowtham 5 | Jagan R

Drone based smart agriculture and animal monitoring system

Dr. S. Sasikala

Assistant Professor Department of CSE Abdul Raguman A | Ajith Kumar S Anjali R | Keerthanajali V

COVID Patients and vaccine side effects real time patient analysis monitoring system using wearable devices

Mr. M. Ramesh Assistant Professor

Department of ECE

Ismail j Abudhakeer 5 Ramachandran C | Mayurika P

PLC - SCADA based automated boiler controller

Dr. S. Jayapoorani

Professor Department of ECE Gowher jan J | Nikisha P Parkevi S | Bhuvaneshwari S

Executive Director

Vice-Chairman





Overview of Aero



READING PAGE

PROGRAM EDUCATIONAL OBJECTIVES

- To strengthen the fundamental subject knowledge and practical skills of the aeronautical Students for meeting the requirements of Aeronautical industries and educational institutions including research center.
- * To give quality technical education to the students covering latest technological concepts for facilitating them to diagnose and solve industrial problems.
- * To shape the students for becoming socially, intellectually and ethically responsible Aeronautical Engineers.
- To provide necessary technical, managerial and soft skills to the students for making

PROGRAM SPECIFIC OUTCOMES

- 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.

The scientists wanted to observe how people use their bodies to pilot a flying object, in this case a drone, and determine which movements are most intuitive and natural -- approaching the pilot problem from a completely new perspective. They started by monitoring the body movements of 17 individuals thanks to 19 markers placed all over the upper body as well as their muscular activity. Each participant followed the actions of a virtual drone through simulated landscapes that passed-by as viewed through virtual reality goggles. Overall, the scientists compared their torso strategies to joystick control in 39 individuals. They found that torso drone control outperformed joystick control in precision, reliability and with minimal training sessions. -EPFL NEWS

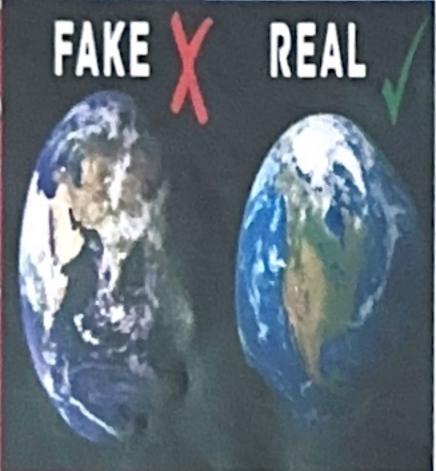
Imagine piloting a drone using the movements of your torso only and leaving your head free to look around, much like a bird. EPFL research has just shown that using your torso to pilot flying machines is indeed more immersive -- and more effective -- than using the longestablished joystick. The results are published in today's issue of PNAS. Our aim was to design a control method which would be easy to learn and therefore require less mental focus from the users so that they can focus on more important issues, like search and rescue," says lead author Jenifer Miehlbradt of EPFL's Translational Neuroengineering Laboratory led by Bertarelli Foundation Chair Silvestro Micera. "Using your torso really gives you the feeling that you are actually flying. Joysticks, on the other hand, are of simple design but mastering their use to precisely control distant objects can be challenging."

FORGET JOYSTICKS, USE YOUR TORSO TO PILOT DRONES!

FUN NEWS

Aviation Quiz

The Boeing 747 is a widebody commercial jet airliner and cargo aircraft, is also known as

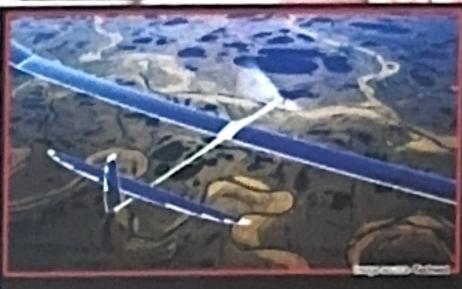




A Ukranian engineer has designed an airplane with a detachable cabin. In the event of an emergency, the cabin breaks off, deploys parachutes, and floats passengers safely to the sea or ground.



AMERICA'S FIRST "AIR FORSE" (MAC COURTED WITH FIVE COT-AIR DALLOONS AID STRIVESSATION OF A STREET SECTION OF A STREET SECTION



Google is planning to beam ultra-fast 5G internet from solar-powered drones, it's called the Project Skybender. It is theoretically estimated that the drones will be able to deliver mobile internet 40 times faster than 4G LTE, which means you could transmit gigabytes of data every second.

EXCEL ENGINEERING COLLEGE

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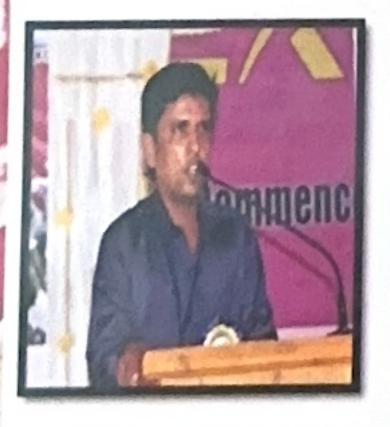
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