



EXCEL ENGINEERING COLLEGE (Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NBA(AERO,CSE,ECE&MECH), NAAC with "A+" and Recognised by UGC (2f &12B)
KOMARAPALAYAM - 637303

2.3.1 Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

1. Teaching Aids: PowerPoint presentation, Video Film, Models, Charts, Animation photos

Faculty Name: Mr. M. Nambi Rajan

Teaching Aids: Models Explanation

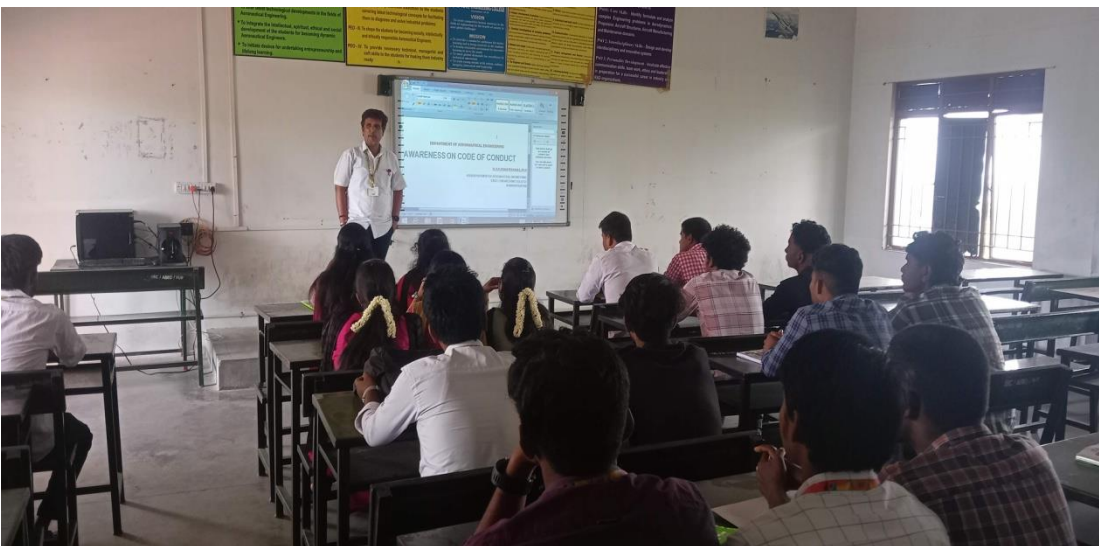
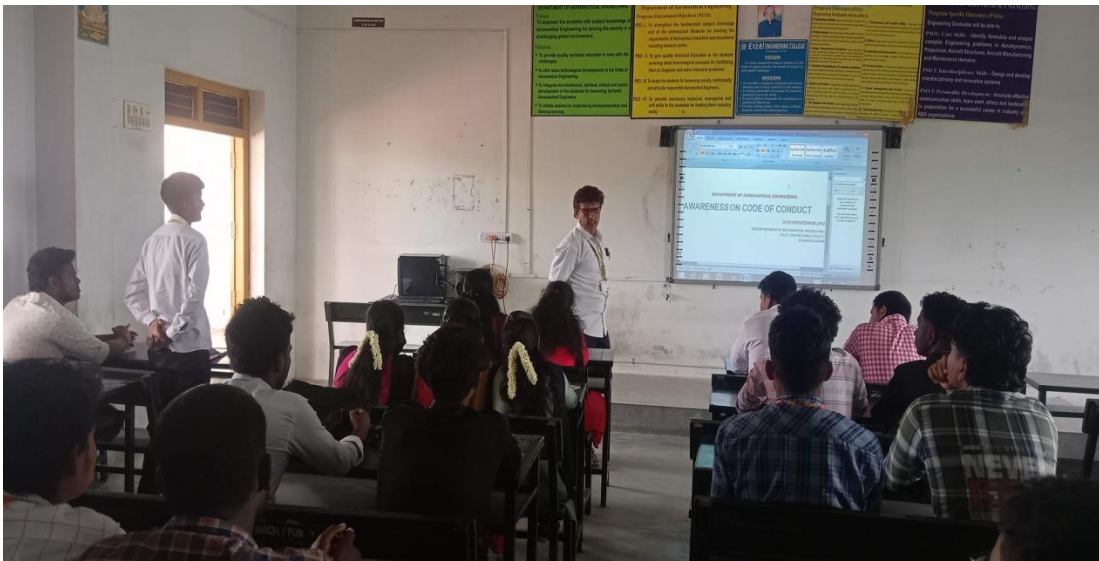
Teaching Content: Aircraft motion is a dynamic interplay of fundamental forces and control systems. Lift, generated by wing airfoils, counters gravity, facilitating flight. Thrust, produced by engines, propels the aircraft forward, overcoming drag resistance. Control surfaces, such as ailerons, elevators, and rudders, govern roll, pitch, and yaw, ensuring precise manoeuvrability. Flight phases—takeoff, climb, cruise, descent, and landing—highlight the diverse aspects of aircraft motion. Stability around longitudinal, lateral, and directional axes is crucial for safe operation. Mastering these principles unveils the intricate dance of forces and controls that define the seamless motion of aircraft through the skies.



Faculty Name: Dr.S.P.Venkatesan

Teaching Aids: PowerPoint presentation

Teaching Content: This PowerPoint presentation offers a concise exploration of Total Quality Management (TQM), a holistic approach to organizational excellence. The slides will delve into the core principles of TQM, emphasizing customer satisfaction, continuous improvement, and employee involvement. It will highlight key TQM tools and methodologies, demonstrating how they contribute to enhanced product and service quality. The presentation will also touch upon the role of leadership in fostering a culture of quality and provide practical insights into implementing TQM in diverse organizational settings. Get ready to grasp the essentials of TQM in a visually engaging and informative format.



Faculty Name: Mr.N.Sreenivasaraja

Teaching Aids: Video Film

Teaching Content: Embark on a thrilling cosmic journey with our video film presentation, "Rocketing into the Cosmos." This visually captivating experience delves into the awe-inspiring realm of rocket space exploration. Through stunning visuals and immersive storytelling, the film explores the history of rocketry, from its humble beginnings to the monumental achievements of space agencies worldwide. Witness the power of rocket launches, feel the weightlessness of space, and marvel at the breathtaking vistas of distant celestial bodies. The presentation blends cutting-edge graphics, real-time footage, and expert narration to convey the intricacies of space exploration, making it an exhilarating and educational adventure for all audiences. Strap in and prepare for an unforgettable voyage beyond the Earth's atmosphere.



2. **Invited Lectures:** Special lectures by eminent academicians, alumni and industrialists.

Academic Guest lecture on Artificial intelligence in Aviation Industry

DATE : 04.02.2023
VENUE : Pavayammal Hall
NO. OF PARTICIPANTS : 102

The program was arranged by the Department of Aeronautical Engineering association UAV club. Dr.K.Bommanna Raja Principal presided over the function, Dr.S.P.Venkatesan HOD/Aeronautical welcomed the gathering and along with all the faculties and students of aeronautical engineering department. The program was coordinated by Prof.B.Vijay Babu and Prof.R.Nallappan Assistant Professor / Aeronautical. Around 55 students participated in the program. The resource person handled a very informative session and highlighted the following points:

- About Artificial intelligent
- Artificial Intelligent Aircraft
- Aviation control systems
- Technological aspects of AI
- Design thinking

At the end of the session, students interacted with the resource person to clarify their doubts in the topic and the resource person motivated the students to enhance their design skills using any of the available software tools. Students expressed their gratitude that the program was highly informative and interesting. Finally the session ended with the vote of thanks





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Department of Aeronautical Engineering

UAV Students club & ISTE student's chapter

Organizing

Guest lecture on Artificial intelligence in Aviation Industry

04.02.2023 Saturday @ 10.00 am



Highlights :

- Role of AI in Aviation
- Aviation Control
- Flight Path Optimization

Prof.C.RATHNAKUMAR
Associate Professor

Prof.B.Vijaybabu & Prof.N.Nallappan
Program Coordinator

Cordially Invited by
Dr.S.P.Venkatesan
Head of the Department
Aeronautical Engineering



Certificate No
JAB525024C



Learn.
Empower.
Evolve.

Certificate of Learning



YASEEN KHAN

Student ID: 25024C

has completed the following course

Microsoft Excel Masterclass : Some Magical Features 2022

0hr,35min
Total Duration

11
No. of Lessons

Intermediate
Level of the Course

Issued on **10th February 2023**

Certificate Link: learnmall.in/cert/JAB525024C

learnmall.in
★
AWESOME
LEARNER

This is a system generated certificate and needs no signature. This Certificate should be presented with the attached learning summary having details of the Course. This certificate does not guarantee the acquaintance of qualification, degree or skill by the learner. Learner hasn't undergone any evaluation before receiving the certificate.



Learning Summary



YASEEN KHAN (Student ID: 25024C)

has completed the following course

" Microsoft Excel Masterclass : Some Magical Features 2022 "

- ▶ Course Segementation: **Office Tools > Microsoft > Excel**
- ▶ Duration: **0 hours 35 minutes**
- ▶ Level: **Intermediate**
- ▶ No. of Lessons: **11**
- ▶ Issue Date: **10th February 2023**

Course Syllabus

▶ Magical Features Of MS Excel

- 1. Flash Fill
- 2. Data Linking
- 3. Freeze Panes
- 4. Conditional Formatting
- 5. Split Text
- 6. Data Validation
- 7. Dropdown List
- 8. IF Statement
- 9. Countifs
- 10. VlookUp
- 11. IFNA



CERTIFICATE

PROUDLY PRESENTED TO

SAI VIGNESH. S

Data Science & Machine Learning Internship
Program Demo Session

Oct 13, 2022

Date of Completion

Internship Program

Organizer





THIS IS TO CERTIFY THAT

Yaseen Khan

HAS SUCCESSFULLY COMPLETED

C Programming Essentials
Bootcamp (5 Days)

FROM 7 FEBRUARY 2023 TO 11 FEBRUARY 2023
(5 Days)

IN COLLABORATION WITH



Transforming the skill landscape



ITM Edutech Training Pvt. Ltd.



DATE OF ISSUE: 11 FEBRUARY 2023

CERTIFICATE NO: LUCPFEB23454

WWW.LETSUPGRADE.IN/VERIFY

Cisco
thing**Q**bator

NASSCOM[®]
FOUNDATION

Certificate of Participation

This is to certify that

Mr. / Ms **Yaseen khan**

has successfully completed the course

HTML & CSS

as part of the Cisco thing**Q**bator program

Nidhi Bhasin

Nidhi Bhasin
CEO
Nasscom Foundation
CSR Partner

RK Behera

Rakesh Kumar Behera
Chief Mentor
Ziksha
Training Partner

The Cisco thing**Q**bator program is part of Cisco's CSR
Commitments from 2018-2023



CERTIFICATE NO- SRI-OT01-23440026539



CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

Yaseen khan

Has successfully participated one day virtual workshop on
"Automobile Works with Sheet Metal"
conducted on 26th Feb 2023



कौशलम् एव सफलिकरणम्

SKILLED IN SKYY RIDER

HIMANSU SEKHAR PANDA
CEO- SKYY RIDER INSTITUTIONS



NIHAR RANJAN PANDA
CTO- SKYY RIDER INSTITUTIONS



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CONTENT BEYOND THE SYLLABUS

Department	Aeronautical Engineering		Academic Year :	2022- 2023
Year/Semester/Class	II	IV	Regulations	2020
Faculty In charge	M.Nambi Rajan		Subject Code	20AE403
Subject Name	Aircraft System and Instruments			

Unit	Content Beyond Syllabus Descriptions	Relevance To PO's, PSO's
UNIT-I	Boeing 737 Next Generation Hydraulic system	PO - 1,2,5,7,PSO -1,2
UNIT-II	Conventional Systems - fully powered flight controls for Cessna aircraft	PO - 1,3,5,7,9PSO -1,3
UNIT-III	Starting systems for turbofan in Saturn AL-31	PO - 1,2,5,7,PSO -1,2
UNIT-IV	Cabin pressurization and cabin control systems for A318/A319/A320/A321	PO - 1,3,5,7,9PSO -1,3
UNIT-V	Cockpit of Dassault's Rafale Multirole combat fighter	PO - 1,3,4,10 PSO -1,3

Note: Attach the content for the Topic specified.

Action Taken

S. No	Topics	Mode of Teaching	Date	Resource Person with Designation	Relevance to POs, PSOs
1.	Boeing 737 Next Generation Hydraulic system	<ul style="list-style-type: none"> • Smart Class Room • Video Presentation 	07.01.2023	Nil	PO - 1,2,5,7,PSO - 1,2



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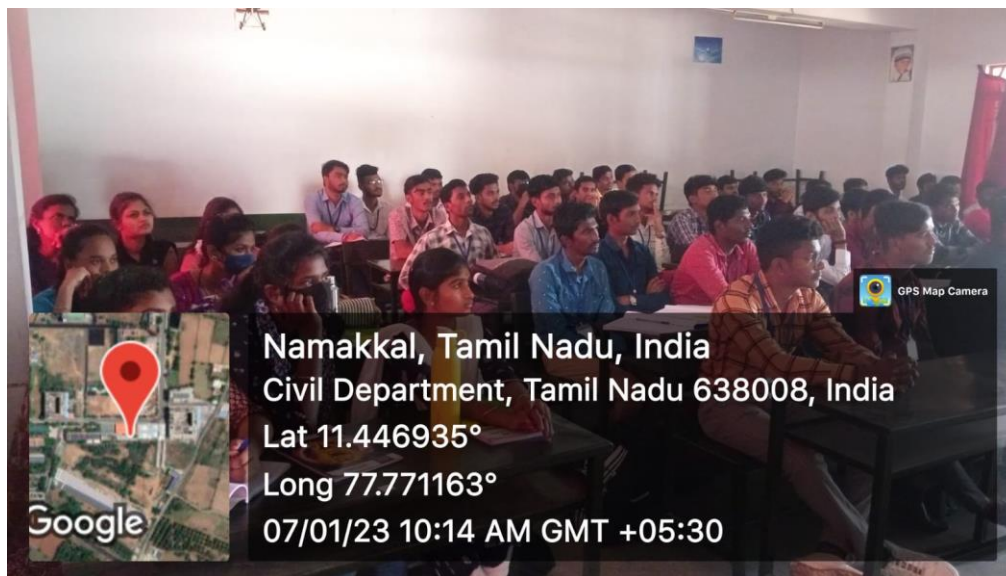
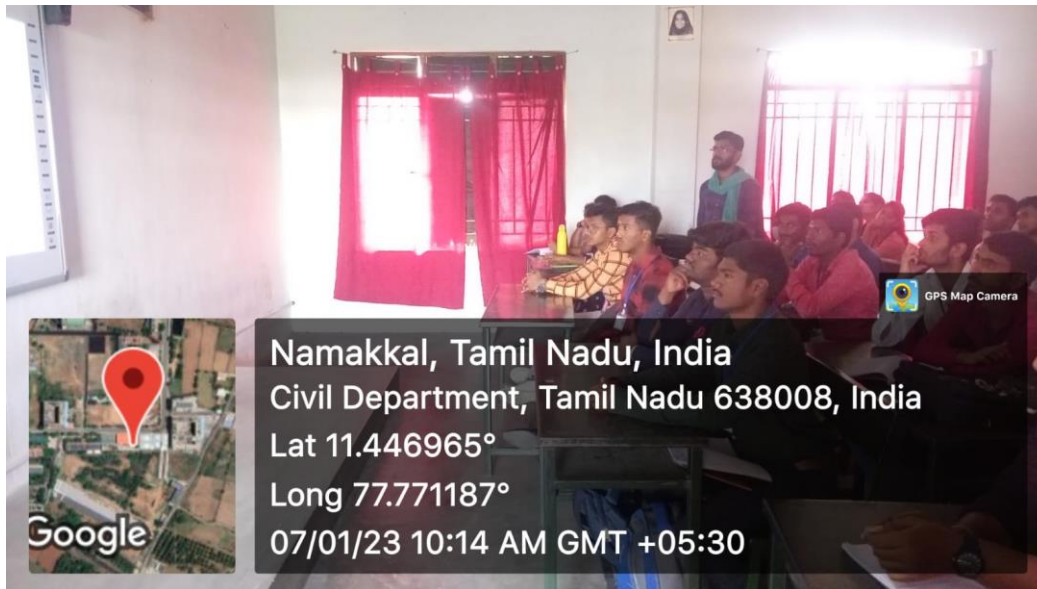

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