

IGNITE 2023



A DAILY NEWSLETTER

Editor in Chief

Dr. Srinivasan Alavandar
Principal, ACT

Editors

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INAUGURATION



On August 17, 2023, the **Orion Aerospace Association and SEDS Agni Chapter** were officially established, marking a significant milestone for the Department of Aerospace Engineering. Chief Guest Captain R. Balakumaran, Chairman of Star Glider Aviation, Chennai, and Mr. R. Jayamurugan, Director of Academics at Vision Defence Institute, Chennai, graced the occasion. Dr. Srinivasan Alavandar, ACT's principal, and Dr. S.K. Narendranathan, the department's head, also paid tribute to the event. Mr. S. Prasanth along with the members of both associations, underscoring the collaborative spirit that defined the event's success.

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PLACEMENT NEWS

The IV year students of CSE and ECE are placed in Hexaware Technologies as SEGUE Graduate Engineer Trainees (GET) with an annual salary of 4,00,000. Hexaware is a multinational provider of technology and business process services. It has over 40 offices in 19 countries and employs over 28,000 Hexawarians.

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PLACEMENT NEWS

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PREPLACEMENT TALK

mitsogo

Mitsogo Technology

COUNSELLING CODE 1316

DATE: 17.8.2023 | **Eligible Department: All Branches** | **PACKAGE: 4 LPA** | **DRIVE MODE: VIRTUAL**



Final Year students of all branches attended **Preplacement Talk** organized by **Mitsogo Technology** on 17-8-2023. FN virtually briefing about the company and Placement Process. Mitsogo is a company that provides business mobility and digital workspace management solutions. Mitsogo's enterprise software division, Hexnode has been empowering organizations in 100+ countries with a unified platform for enterprise-wide device, app, content, identity, and threat management.

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STUDENT ACHIEVEMENT



MARPU FOUNDATION
CERTIFICATE OF INTERNSHIP

Awarded With Applause To

GOWTHAM M

This Internship certificate is presented to them to acknowledge their contribution to working with us as a "Writing Intern " in the social awareness wing from 18 July 2023 to 24 July 2023 at Marpu Foundation.



Manas
Manas Chandra

DIRECTOR | Operations



25th July 2023

DATE



Marpu Foundation

Charity ID: 619/19 (TS) & AAGTM4991A | 80G: HYD/80G/2020-21/A/10246

www.marpu.org

M. Gowtham, Student, III Year, Electronics and Communication Engineering has completed an internship for social awareness wing as "Writing Intern" from 18th July to 24th July 2023 in MARPU Foundation, Chennai.

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STUDENT ACHIEVEMENT



CERTIFICATE
OF INTERNSHIP

presented to

M Gowtham

has successfully completed one month Data Science and Machine Learning Internship on Sunday, Jul 30 2023 at Ybi Foundation

Certificate ID: 14364000007099206



Ybi Foundation

www.ybifoundation.org

(+91) 966 798 7711

support@ybifoundation.org

M. Gowtham, III Year student, Electronics and Communication Engineering has completed one month internship on “Data Science and Machine Learning” in Ybi Foundation, Chennai.

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STUDENT ACHIEVEMENT

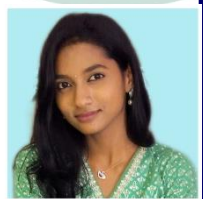


Certificate

We certify that Nanthini priya.R
has completed the following courses on our platform:

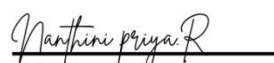


Android for beginners by The new boston
08 hours 22 minutes - From 01/08/2023 to 03/08/2023





Adrian Medeiros Dantas
Executive Director - CURSA



Nanthini priya.R
Student Signature
Nanthini priya.R

c362-2742560

This certificate proves that the student has attended the courses described therein through the CURSA application, which is available in the Google (Google Play) and Apple (App Store) application stores, proving the authenticity of the respective viewing time of the video classes. If you have received this certificate and want to verify that it is authentic, scan the QR code with a cell phone camera or access cursa.app/en/my-certificate and consult the code described in the lower right corner of this certificate.

Responsible for the application: Medeiros Tecnologia LTDA. CNPJ 24.471.978/0001-08.
E-mail: contato@cursa.app



Point the camera to
verify authenticity

Nanthini Priya R, III Year Student, Department of Information technology, has completed online certification course on **“Android for beginners by The new boston”** organized by **CURSQ** from 1st August 2023 to 3rd August 2023.

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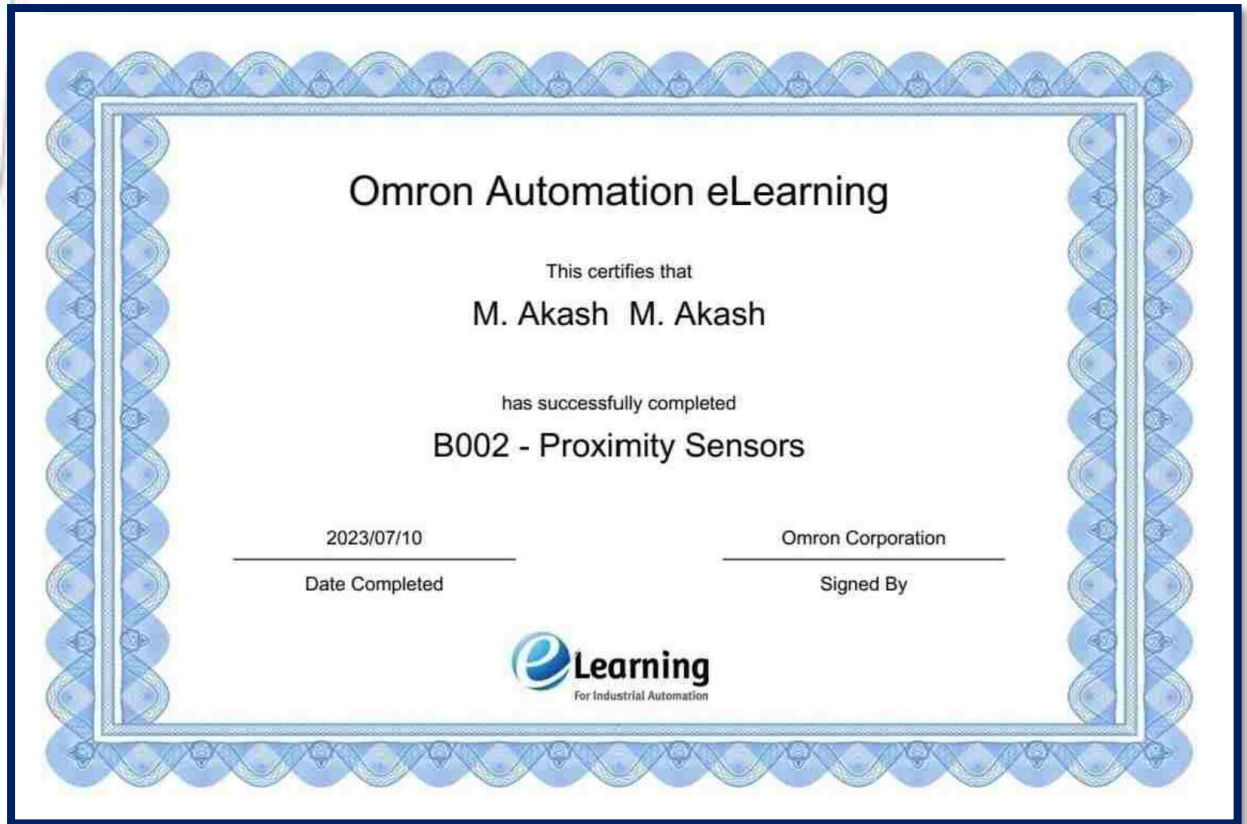


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STUDENT PARTICIPATION



M. Akash, I year student, Department of Science and Humanities has completed the online course on **B002 – Proximity Sensors** offered by Omron Automation eLearning in the month of July 2023.

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STUDENT PARTICIPATION



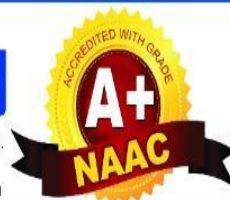
Gokul Krishnan A, IV year student, Department of Computer Science Engineering, has completed an internship in “**Web Development Intern**”, organized by Code Clause from 1st July 2023 to 1st August 2023.

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STUDENT PARTICIPATION



Certificate no: UC-2640a4a9-8355-4bf5-bd99-5c66de92a3ae
Certificate url: ude.my/UC-2640a4a9-8355-4bf5-bd99-5c66de92a3ae
Reference Number: 0004

CERTIFICATE OF COMPLETION

Java and Spring Framework for Beginners with Spring Boot

Instructors **Navin Reddy**

Balakrishnan S

Date **July 30, 2023**

Length **22.5 total hours**



Balakrishnan S, IV year student, Department of Computer Science Engineering, has completed a certificate in “**Java and Spring Framework for Beginners with Spring Boot**”, organized by Udemy on 30th July 2023.

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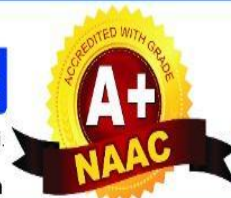


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STUDENT PARTICIPATION



Pradeep Joshwa, IV year student, Department of Computer Science Engineering, has completed a certificate in **“Hotstar Clone using HTML,CSS,JavaScript”**, organized by DevTown for 7 days on July 2023.

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STUDENT PARTICIPATION





CERTIFICATE OF TRAINING COMPLETION

This is to certify that

Mr./Ms. ARCHANA GV

has successfully completed his / her term of Training

in Web Development from 13-Jun-2023

to 13-Jul-2023 and has proven his/her

competency with utmost dedication and promise.



Certificate number: AGC2023061013
For certificate authentication
Scan QR code


Challa Rohit
 Academic Head



Archana GV, III year student, Department of Computer Science Engineering, has completed an internship training certificate in “**Web Development**”, organized by acme grade from 13th June 2023 to 13th July 2023.

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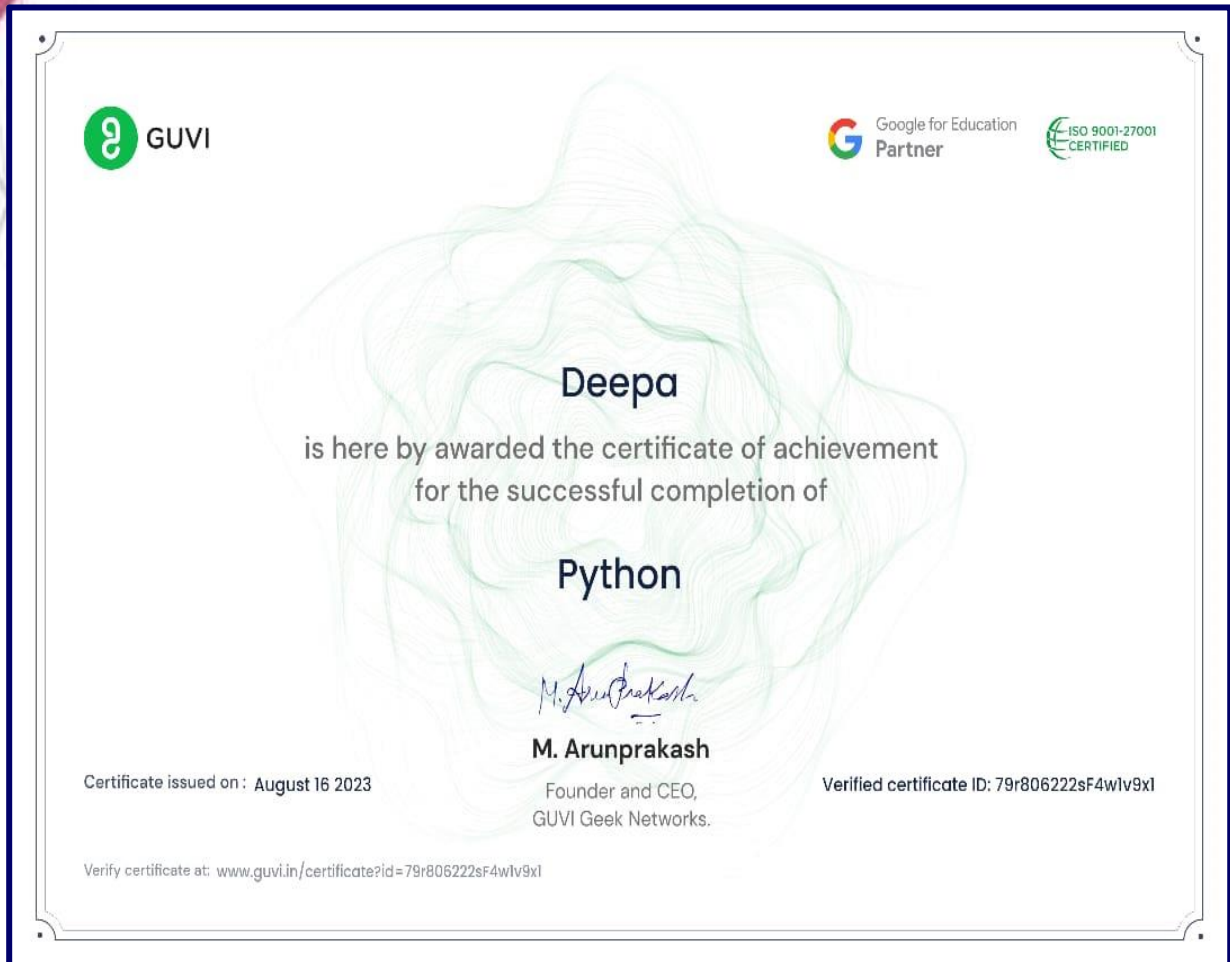


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STUDENT PARTICIPATION



Deepa, III year student, Department of Computer Science Engineering, has completed a certificate course in “**Web Development**”, organized by Guvi from 13th June to 13th July 2023.

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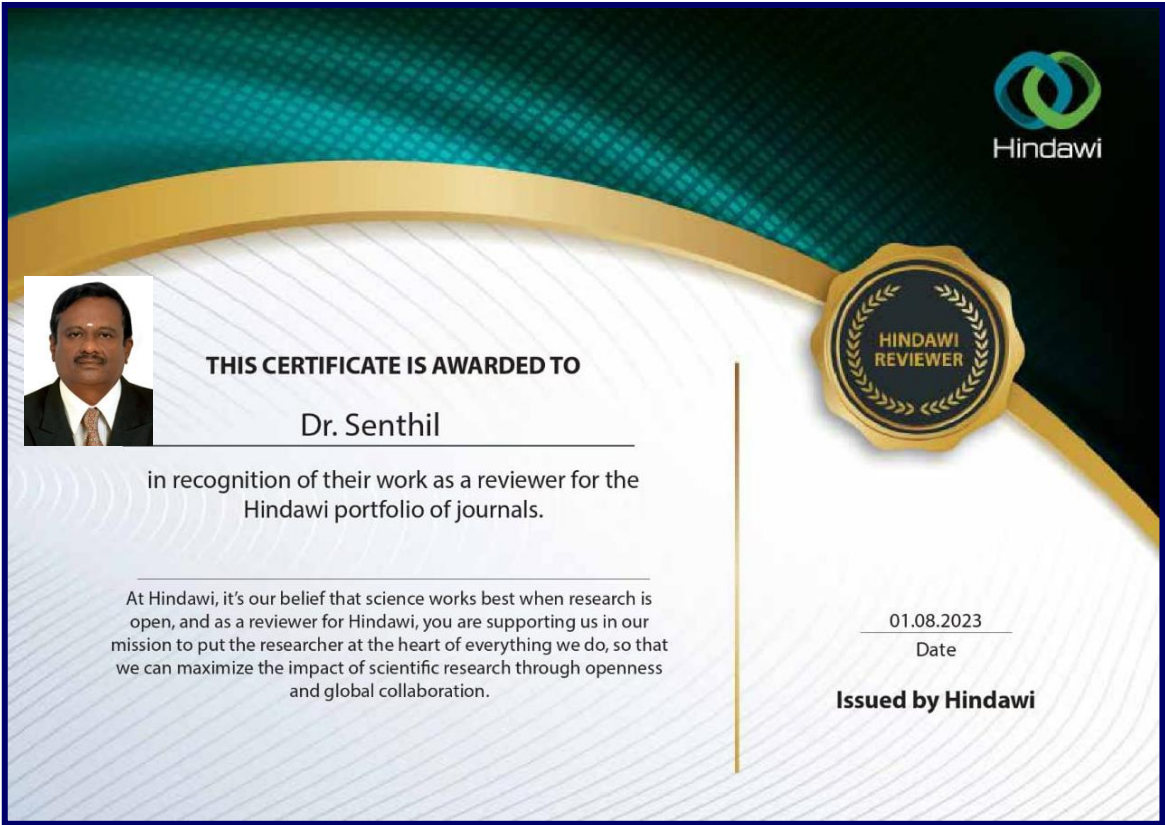
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FACULTY ACHIEVEMENT



Dr. G. A. SENTHIL, Associate Professor, Department of Information Technology is awarded as “**Best Reviewer Award**” for “**Hindawi portfolio of journals**” by HINDAWI on 1st August 2023.

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FACULTY ACHIEVEMENT

Received: 17 February 2022 | Revised: 23 May 2023 | Accepted: 3 July 2023
DOI: 10.1002/ape.7873

RESEARCH ARTICLE

An efficient VLSI architecture for fast motion estimation by hybridizing parallel spiral and adaptive threshold star diamond search algorithm-based search algorithm in HEVC

R. Satheeskumar¹ | Bonam Raghavaiah² | S. Geerthik³ | T. Senthil Kumar⁴ | Francis H. Shajin⁵ | P. Rajesh⁶



Summary
This article proposes a high efficiency video coding (HEVC) standard hardware using block matching motion estimation algorithm. A hybrid parallel spiral and adaptive threshold star diamond search algorithm (Hyb PS-ATSDSA) proposes for fast motion estimation in HEVC. Parallel spiral search approach utilizes spiral pattern for searching from center to the surroundings and adaptive threshold SDA consists of two phases, they are adaptive threshold and star diamond algorithm. To lower computational complexities in HEVC architecture, parallel spiral search algorithm uses several blocks matching schemes. Adaptive threshold and star diamond algorithm are used to reduce the matching errors and remove the invalid blocks early from the procedure of motion estimation and finally predicts the final motion of the image. Speed is increased while using this hybrid algorithm. Proposed structure is carried out in Xilinx: ISE 14.5 design suit, then the experimental outcomes are analyzed to existing motion estimation strategies in field-programmable gate array devices. Experimental performance of the proposed Hyb-PS-ATSDSA-ME-HEVC method attains lower delay 33.97%, 32.97%, 62.97, and 26.97%, and lower area 34.867%, 45.97%, 27.97%, and 43.967% compared with the existing methods, such as FSA-ME-HEVC, TZSA-ME-HEVC, hyb TZSA-IME-HEVC, and IBMSA-ME-HEVC, respectively.

KEYWORDS
block-based matching algorithms (BMAs), diamond adaptive-rood-pattern search (DARPS), parallel spiral search (PSS)

¹Department of Electronics and Communication Engineering, K.S.R. College of Engineering, Tiruchengode, India
²Department of Electronics and Communication Engineering, Ramachandra College of Engineering, Vattur, Eluru, AR India
³Department of Information Technology, Agni College of Technology, Chennai, India
⁴Department of Computing Technologies, SRM Institute of Science and Technology, Chennai, India
⁵Research and Development, Xpertmindz Innovative Solutions Private Limited, Kuzhithurai, Tamil Nadu, India
⁶Research and Development, Xpertmindz Innovative Solutions Private Limited, Kuzhithurai, Tamil Nadu, India

Correspondence
R. Satheeskumar, Department of Electronics and Communication Engineering, K.S.R. College of Engineering, Tiruchengode, India.
Email: rsathees@yahoo.com

Dr. S. Geerthik, Head of the Department, Department of Information Technology has published an article on “An Efficient VLSI architecture for Fast Motion Estimation by Hybridizing Parallel Spiral and Adaptive Threshold Star diamond search algorithm-based search algorithm in HEVC” in the Concurrency and Computation Practice and Experience published by Wiley available online from 14th August 2023.

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K. Elaiyaranik, Assistant professor, Department of Electronics and Communication Engineering has participated in “**Quiz on Quality & Standards**” conducted by Bureau of Indian Standards (BIS).

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WORKSHOP

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ENTREPRENEURSHIP DEVELOPMENT CELL
IDEATE | CREATE | ELEVATE
Agni College of Technology

A WORKSHOP ON
“**FIRST STEP TOWARDS**
ENTREPRENEURSHIP”

Date: 18th August 2023
Time: 10.15am to 11.45am
Venue: Smart Room

Resource Person:
Mrithun Jayan V
CEO,
RIVA COACHING

Target Audience:
EDC Registered Students of All Branches

EVENT COORDINATOR
Dr. M.V.Ishwarya
Head, Department of Artificial Intelligence and Data Science
Entrepreneurship Development Cell in Charge
Agni College of Technology, Thalambur, Chennai - 600 130

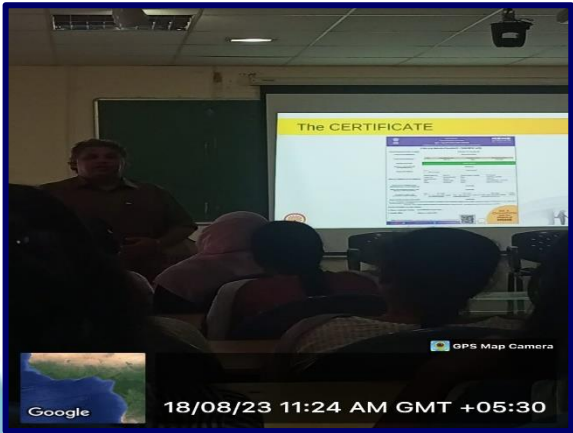
PRINCIPAL
Dr. Srinivasan Alavandar
Agni College of Technology



Dr. Ishwarya M. V, Head, Department of Artificial Intelligence and Data Science has organized a **Workshop** on “**First Step Towards Entrepreneurship**” by the Resource person Mr. Mrithun Jayan. V, CEO, Riva Coaching, for the EDC registered students of all branches, and they get to know the required steps to become a successful Entrepreneur.

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GALLERY



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INDUSTRIAL VISIT



III Year Students, Department of Information Technology, went for an **Industrial Visit** along with faculty members, Dr. G. A. Senthil and Ms. Tharagairani to **Sansbound Networking School** and learned “**Basics of Networking and it’s Practical Knowledge**” on 14th August 2023.

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SEMINAR



Mr. Sivaprasath Munusamy, Data Scientist, from the Department of Information Technology, gave a **seminar** on **"Innovation and Recent Trends on IOT Using AI & ML"** with real-time examples on August 17, 2023 for III year students. The students enthusiastically participated in the workshop, which was very beneficial.

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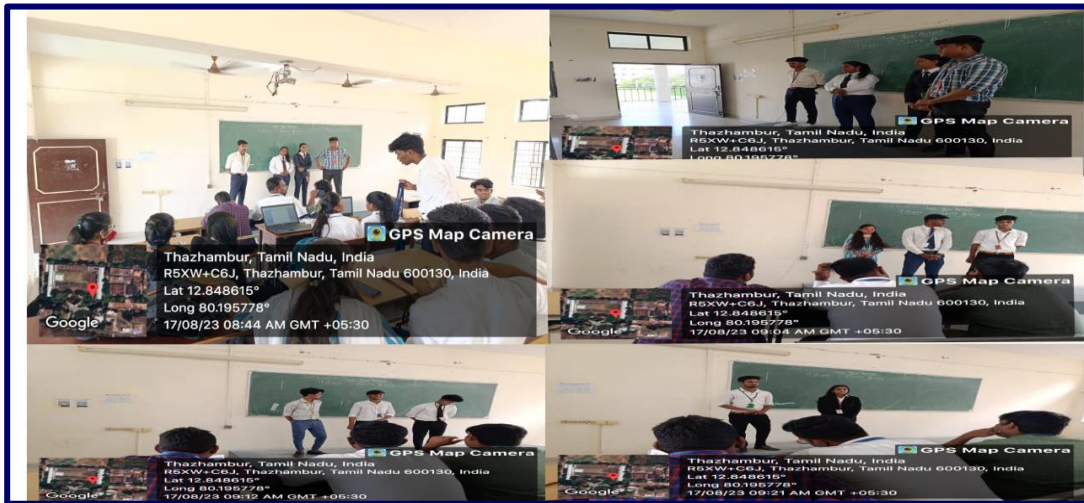


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PROJECT REVIEW



On August 17, 2023, the Department of Aerospace Engineering held the **zeroth review for final year students** in the presence of Dr. S. K. Narendranathan, HOD; Mr. A. Surenderpaul, Project coordinator; and all department faculty members. The HOD and every faculty member provided valuable feedback to help them improve their project proposals.

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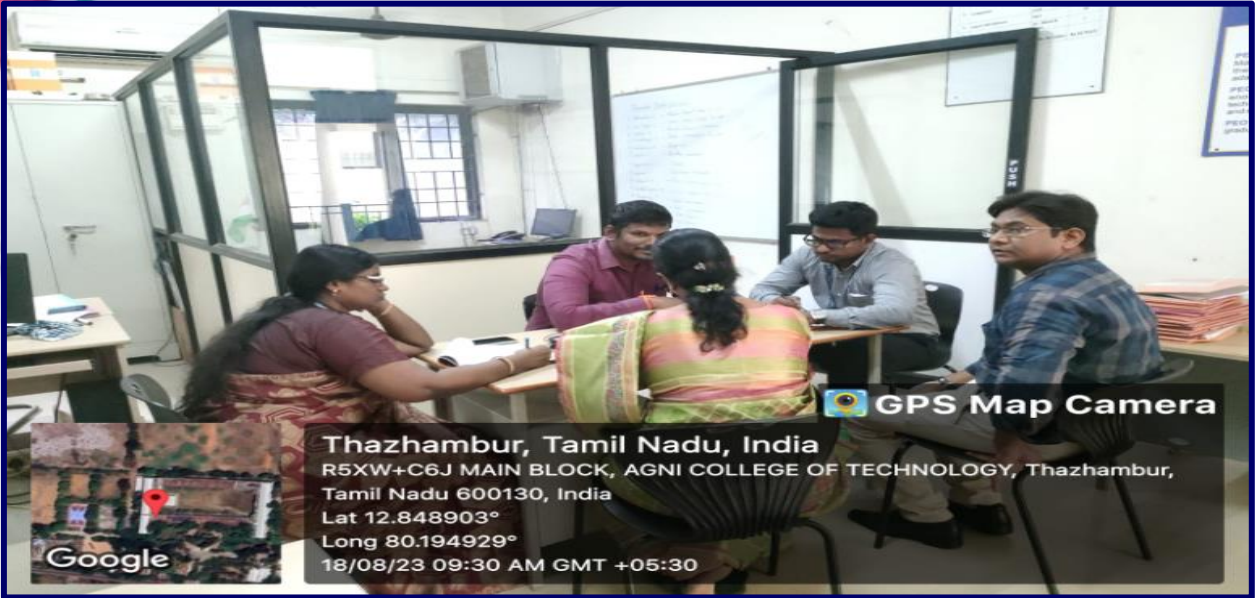
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ITSS AUDIT



Dr. Arul Kulandaivel, Head, S&H, Dr. Geerthik, Head, IT Mr. Praveen, Assistant Professor, CSE, Ms. Raji, Assistant Professor, AIDS have conducted an ITSS audit to assess the current state of IT Systems and services in the department of Civil Engineering in presence of Mrs.R.Beaula Jasmine, Head and faculty members. A team conducted a thorough assesment of IT services & Infrastructure, Stock register were verified, issue in software and hardware were identified and grievances were collected with the department needs.

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