

IGNITE 2024



A DAILY NEWSLETTER

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PLACEMENT NEWS



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A+ NAAC

COUNSELING CODE 1316

POOL CAMPUS DRIVE

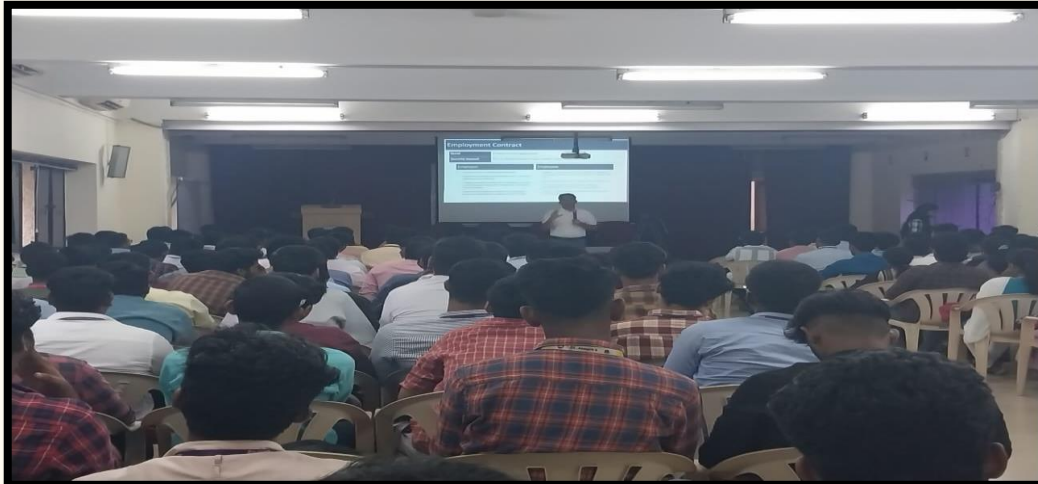
BATCH 2024 PASSOUT



NEEYAMO

NEEYAMO ENTERPRISE SOLUTIONS

DATE: 11.1.2024	Eligible Department: Dept All Dept	Package: 3 LPA
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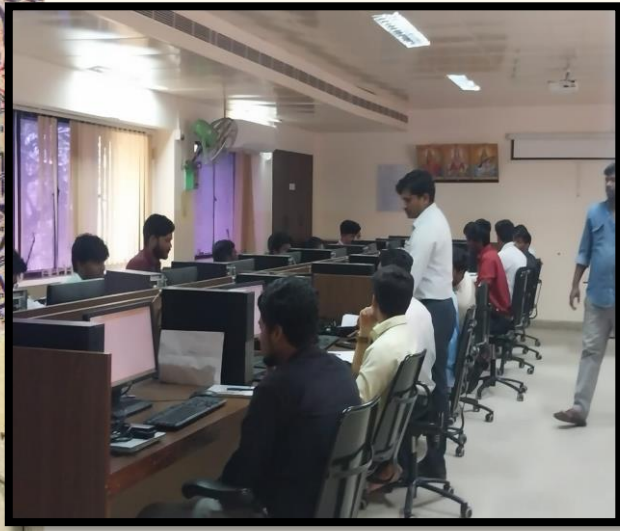


Neeyamo Company conducted pool campus drive on 11th January 2024 for Final year students of CSE,ITECE,EEE,MECH,MAE& MHT department .Neeyamo is a leading technology-enabled global payroll and EOR solutions provider for multinational and micro-multinational corporations worldwide.

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GALLERY



Final year students of CSE, IT, ECE, EEE, MECH, MAE & MHT department attended the preplacement talk and online aptitude test. Shortlisted Students attended email drafting, and technical interview as part of the Neeyamo Interview Process.

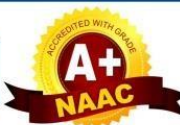
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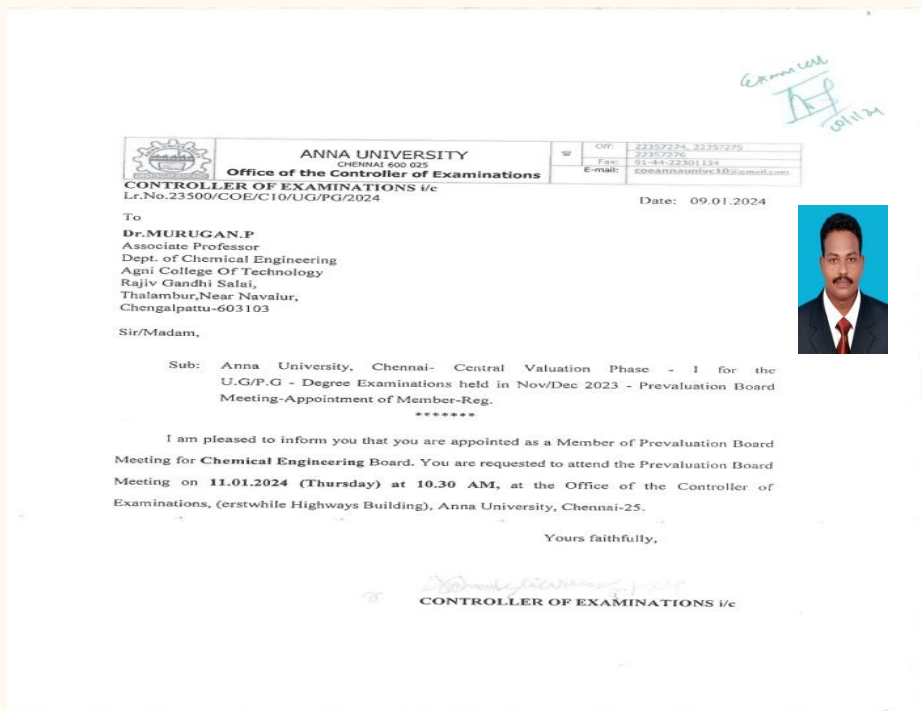
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FACULTY ACHIEVEMENT



Dr. P. Murugan, Associate Professor and Head, Department of Chemical Engineering, has been appointed as a member of the **Prevaluation Board Meeting for the Chemical Engineering Board**. The meeting was scheduled for January 11, 2024 (Thursday) at 10.30 AM at the office of the Controller of Examinations, Anna University, Chennai-25.

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FACULTY ACHIEVEMENT

Revolutionizing Hand Gesture Recognition: A Transfer Learning Approach using Surface Electromyography and Convolutional Neural Networks

Publisher: IEEE [Cite This](#) [PDF](#)

R. Deepa ; D. Vidyabharathi ; Hemlata ; Kalaivaani P.C.D ; M. Marimuthu ; Mohamed Ismail K [All Authors](#)

96
Full
Text Views

Abstract

Document Sections

- I. Introduction
- II. Materials and method
- III. Performance Evaluation
- IV. CONCLUSION



Abstract:

The popularity of deep learning algorithms has increased significantly over the past few years, which are unrivaled in their capacity to automatically discover discriminant features from massive datasets. Deep learning techniques are rarely used for electromyography-based gesture detection due to the large amount of work involved in creating thousands of instances. In order to achieve high generalization and minimal training burden in Surface Electromyography (SEMG)-based gesture recognition, this research provides an effective Transfer Learning (TL) technique. This study aims to determine whether or not a certain EMG signal, captured by a sensor-based band, corresponds to a particular hand gesture. In order to identify and categorize objects, surface EMG and Machine Learning (ML) methods are employed. Suitable pre-processing processes are applied to the raw EMG signal recorded by the sensor in order to remove noise artifacts. We use transfer learning and convolutional neural networks to discover a good controller for a myoelectric prosthetic hand. First, pictures are generated from the sEMG signal using the continuous wavelet transform (CWT), which is a robust feature for the separation of various hand gestures. Then, we used what we learned from many image classification neural nets, including AlexNet and ResNet-18, to sEMG classification. When these deep neural networks were applied, they beat standard machine learning methods regarding precision and quickness. State-of-the-art accuracy levels of 100% on the publically available datasets, for example, have been reached using a hybrid of CNN and VGG16 for these data sets. To obtain excellent accuracy in two sEMG datasets, this research establishes an algorithmic based on Continuous Wavelet Transform (CWT) and CNN-VGG16 deep neural networks.

Mr. K. Mohamed Ismail, Assistant Professor, Department of Electronics and Communication Engineering has published a manuscript titled **“Revolutionizing Hand Gesture Recognition: A Transfer Learning Approach using Surface Electromyography and Convolutional Neural Networks”** in the proceedings of the 2023 Second International Conference on Augmented Intelligence and Sustainable Systems (ICAISS) (IEEE/Scopus).

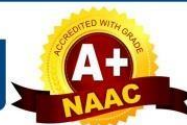
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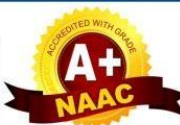


STUDENT PARTICIPATION



A.Vijayaa Rajah, II Year, Department of Aerospace Engineering, has successfully completed an online course on **Introduction to Firewall** conducted by Great Learning Academy.

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STUDENT PARTICIPATION



CERTIFICATE OF COMPLETION

Presented to

Vijayaa Rajah.A

For successfully completing a free online course

Time Management

Provided by

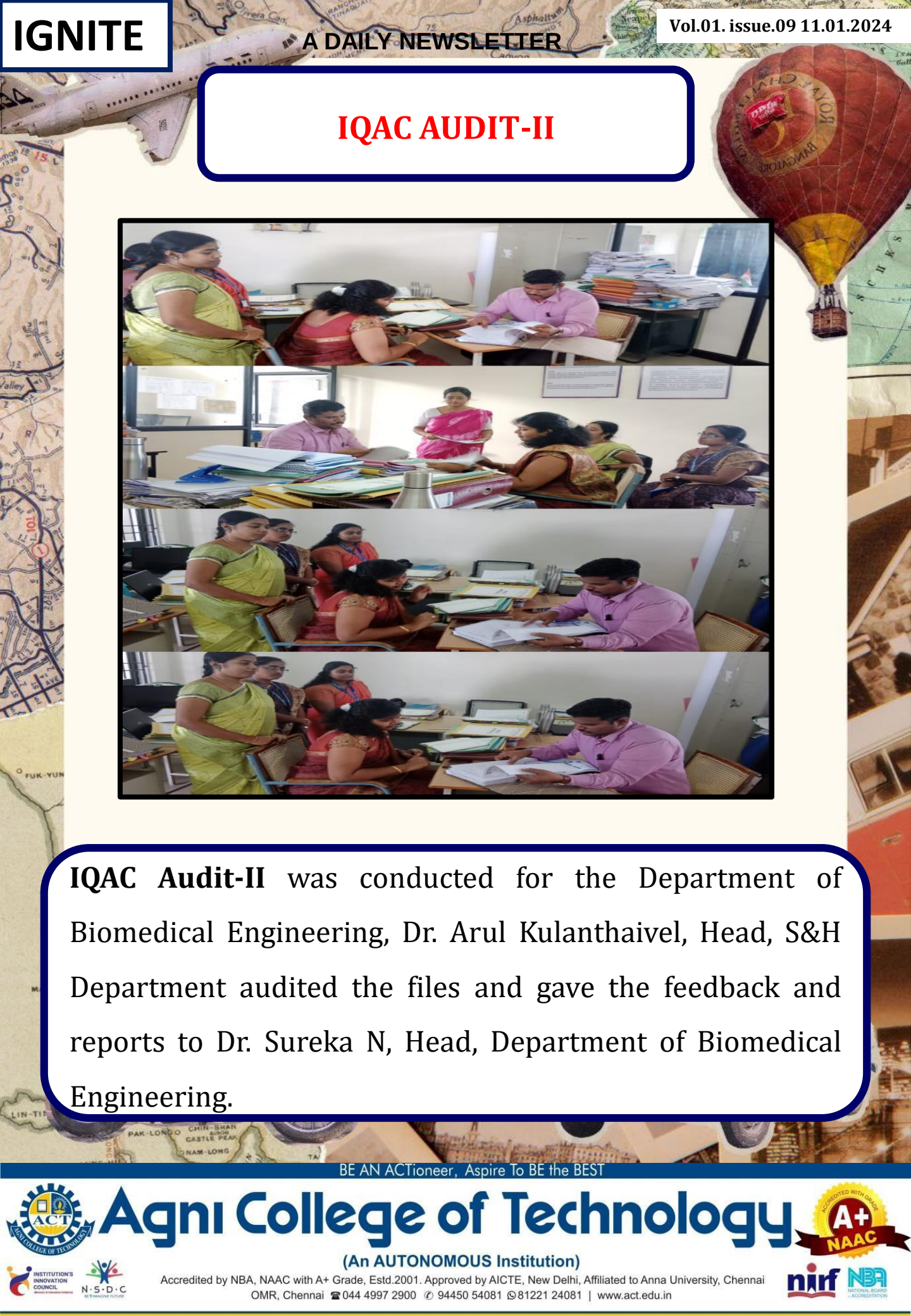
Great Learning Academy

(On December 2023)



A.Vijayaa Rajah, II Year, Department of Aerospace Engineering, has successfully completed an online course on **Time Management** conducted by Great Learning Academy.

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IQAC AUDIT-II



IQAC Audit-II was conducted for the Department of Biomedical Engineering, Dr. Arul Kulanthaivel, Head, S&H Department audited the files and gave the feedback and reports to Dr. Sureka N, Head, Department of Biomedical Engineering.

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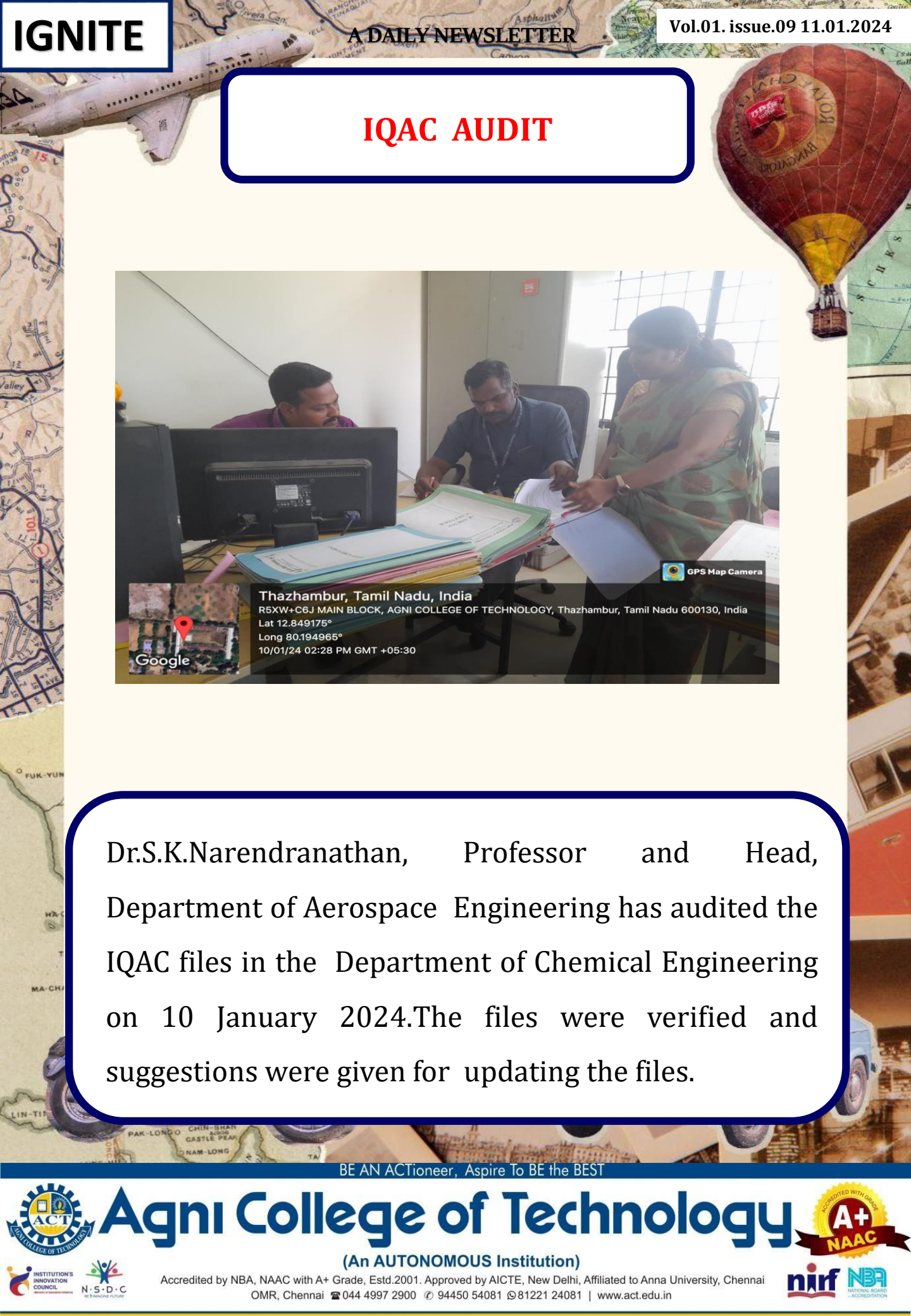


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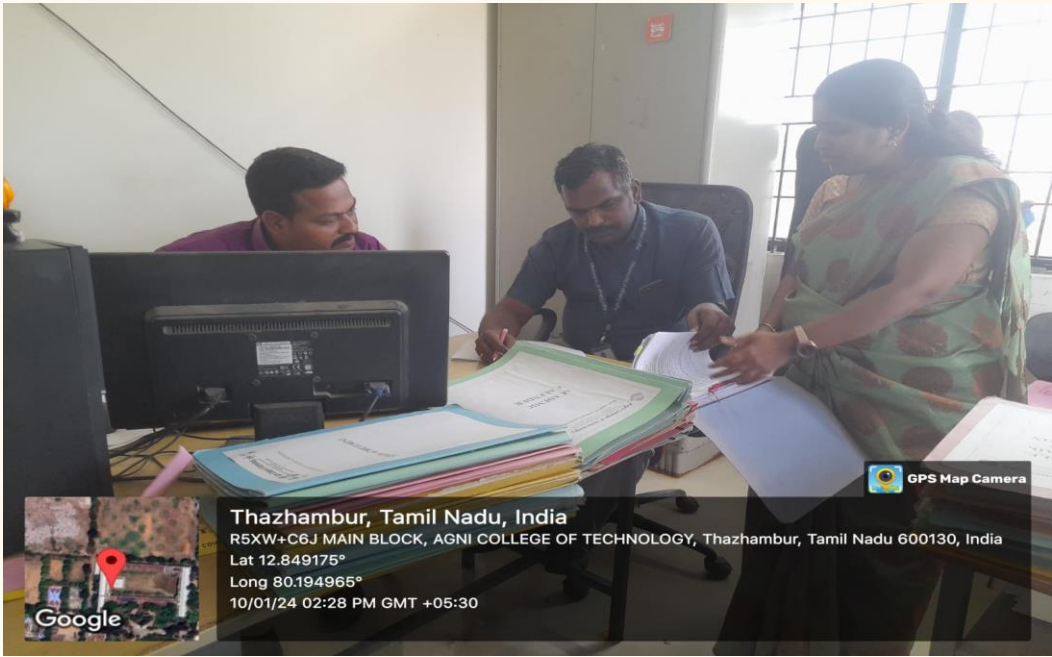
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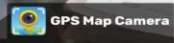




IQAC AUDIT



Thazhambur, Tamil Nadu, India
R5XW+C6J MAIN BLOCK, AGNI COLLEGE OF TECHNOLOGY, Thazhambur, Tamil Nadu 600130, India
Lat 12.849175°
Long 80.194965°
10/01/24 02:28 PM GMT +05:30



Dr.S.K.Narendranathan, Professor and Head, Department of Aerospace Engineering has audited the IQAC files in the Department of Chemical Engineering on 10 January 2024.The files were verified and suggestions were given for updating the files.

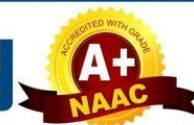
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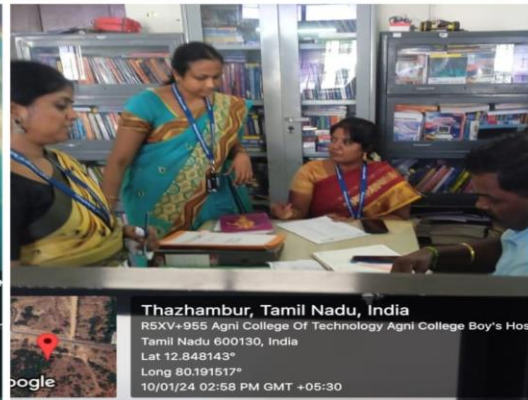
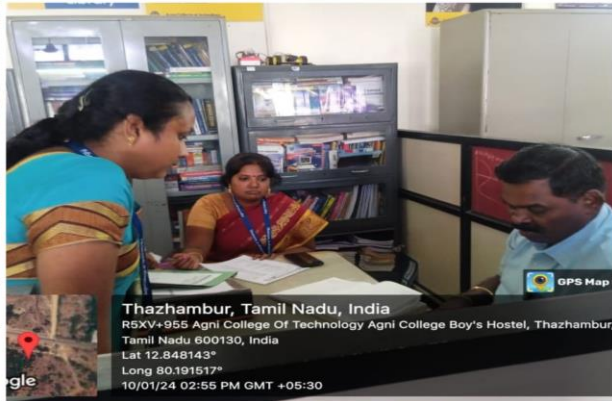
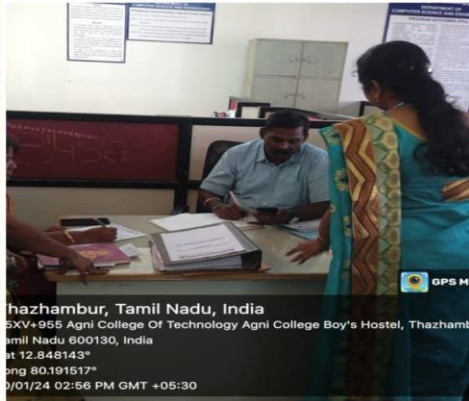
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IQAC AUDIT



Dr.T.Anand, Professor and Head ,Department of Mechanical and Automation Engineering has audited the **IQAC Files** of the Department of Computer Science in the presence of **Dr.L.Sharmila**, Head of the Computer Science and Engineering Department and offered his Suggestions on **10th July 2024**.

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AIDS IQAC AUDIT



Dr. P. Purushothaman, Associate Professor and Head of Department of Mechanical Engineering has **audited the IQAC files of Artificial Intelligence and Data Science Department** for the academic year **2023-2024 - Odd Semester** on **10th January 2023**. During the audit, the HOD and all the department faculty members were present.

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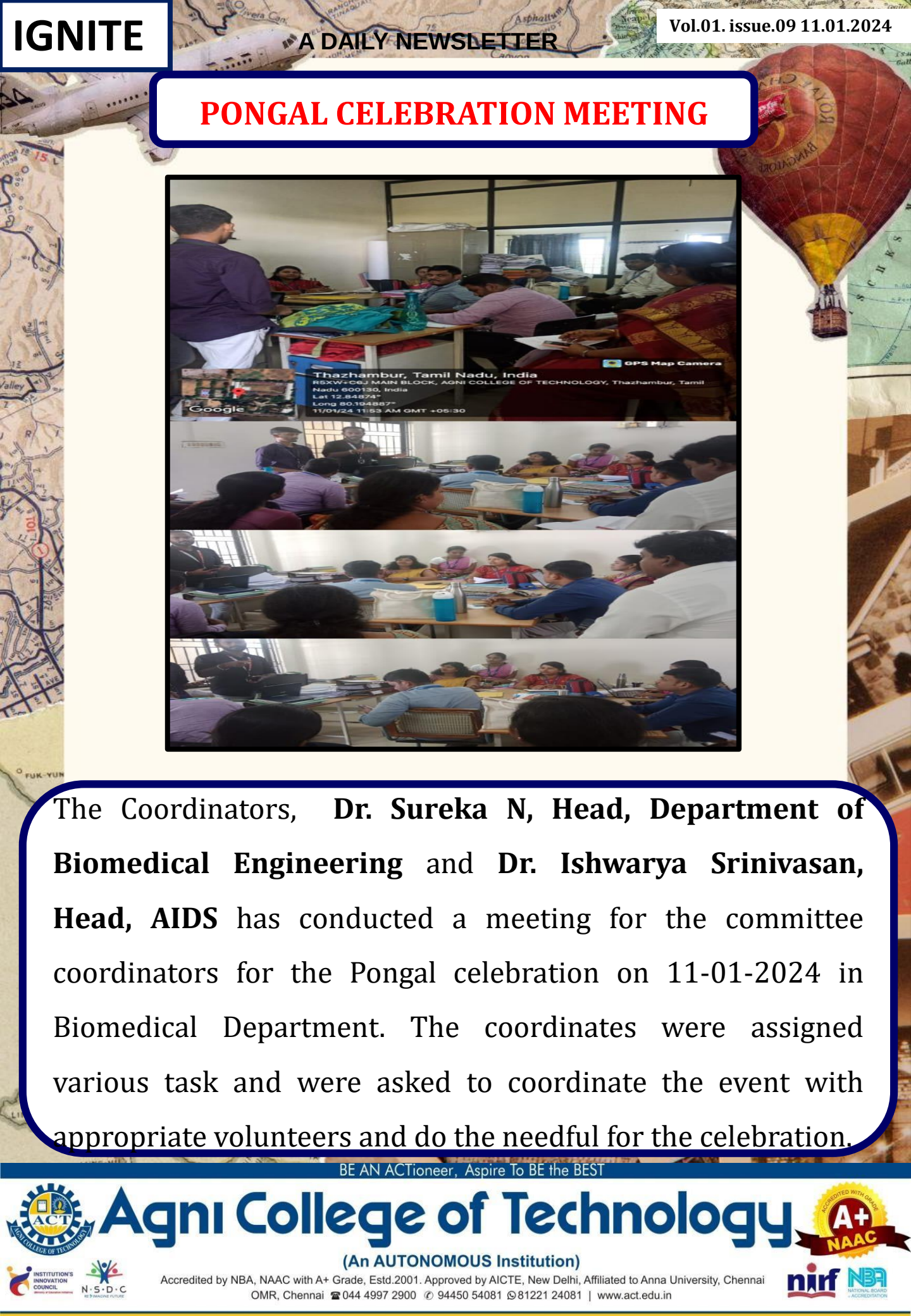


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PONGAL CELEBRATION MEETING



The Coordinators, **Dr. Sureka N**, Head, Department of Biomedical Engineering and **Dr. Ishwarya Srinivasan**, Head, AIDS has conducted a meeting for the committee coordinators for the Pongal celebration on 11-01-2024 in Biomedical Department. The coordinators were assigned various task and were asked to coordinate the event with appropriate volunteers and do the needful for the celebration.

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