

IGNITE 2023



A DAILY NEWSLETTER

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STUDENT PARTICIPATION



@internPE

COMPLETION CERTIFICATE

CID : IPI#15743

To whomever it may concern

This is to certify that **N. Jai priya** worked as an Intern in our company from **10-july-2023 to 06-Aug-2023**.

Please find the internship details below:

Company Name: InternPe
Location: Remote
Domain: Python Programming
Designation: Intern

During their working period, we found him/her to be a sincere and dedicated intern with a professional attitude and very good knowledge of the job.

We thank him/her for their efforts and contribution and wish him/her the best in future endeavors.

Yours Sincerely


(Co-Founder)
InternPe



Registered By MSME 

www.internpe.in

Jai Priya N, IIIrd year Computer Science and Engineering student has completed an internship in “Python Programming”, organized by InternPe from 10th July to 6th August 2023.

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STUDENT PARTICIPATION



@internPE

COMPLETION CERTIFICATE

CID : IPI#13572

To whomever it may concern

This is to certify that **S.Y.Arifa Parveen Moulana** worked as an Intern in our company from **26-June-2023** to **23-July-2023**

Please find the internship details below:

Company Name: InternPe
Location: Remote
Domain: Web Development
Designation: Intern

During their working period, we found him/her to be a sincere and dedicated intern with a professional attitude and very good knowledge of the job.

We thank him/her for their efforts and contribution and wish him/her the best in future endeavors.

Yours Sincerely

Inter B1.
(Co-Founder)
InternPe



www.internpe.in

Arifa Parveen Moulana S.Y, IIIrd year Computer Science and Engineering student has completed an internship in “Web development”, organized by InternPe from 26th June to 23rd July 2023.

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STUDENT PARTICIPATION



Thirumalaiselvan P, IVrd year Computer Science and Engineering student has completed an internship organized by Bocxy Technologies Pvt.Ltd from 28th June 2023 to 20th July 2023.

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STUDENT PARTICIPATION



Dhaneshwari P, IIIrd year Computer Science and Engineering student has completed an internship in “Web development”, organized by InternPe from 03rd July 2023 to 30th July 2023.

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STUDENT PARTICIPATION

INTERNSHIP CERTIFICATE

To whom it may concern,

This certification proves that **Abirami A** has completed the internship program at ABC Programming as a **ABC programming**. **Abirami A** started joining the program from **Monday, July 3, 2023** until **Wednesday, July 26, 2023**.

During his/her stay in the company as an Intern, he/she displays enthusiasm, leadership, self-discipline, and self-motivation.

We are lucky to have him/her as one of our interns before and we would like to wish him/her all the best.

Sincerely,

Infotech



July 26, 2023



Abirami A, IIIrd year Computer Science and Engineering student has completed an internship in “ABC programming”, organized by infotech from 3rd July to 26th July 2023.

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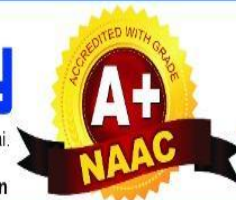


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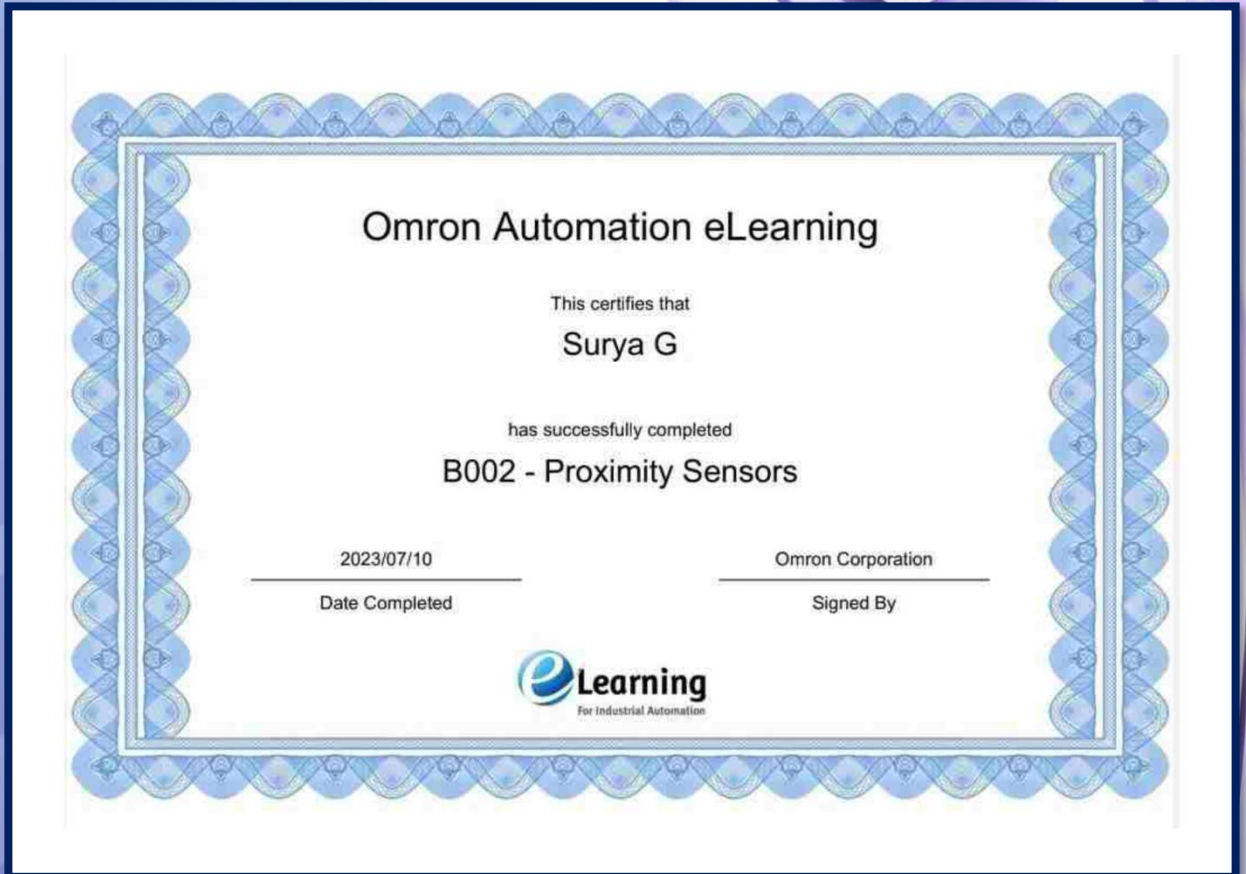
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STUDENT PARTICIPATION



G. Surya, I year student (CME), 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.

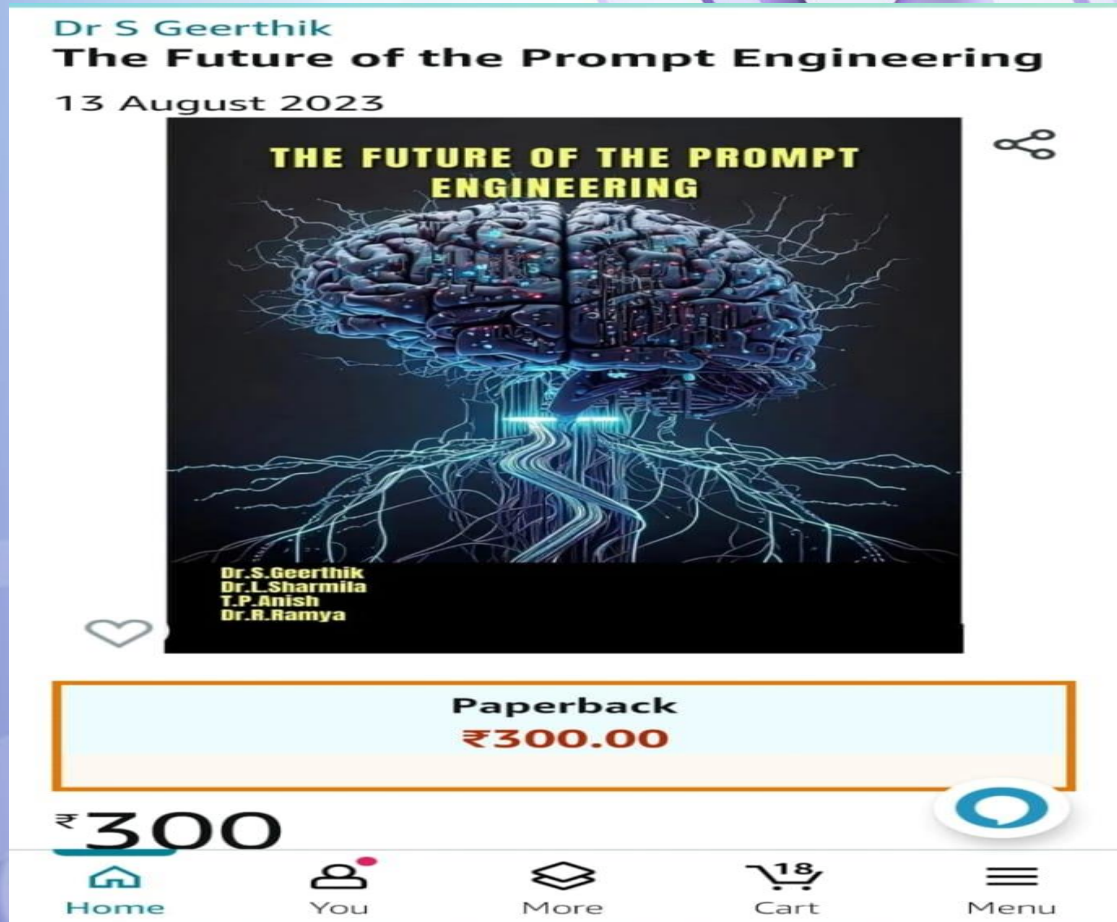
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INTERNATIONAL HOSPITAL TRAINING



Divagar M, Final Year Biomedical Engineering Student, successfully completed his hospital training in Regional referral hospital at Sohar Hospital, Oman from 18th June 2023 to 14th August 2023. He has got specialized training in **Lab** - (Biochemistry, Immunology, Hematology - Analyzers),
O.T - (Anesthesia unit, Endoscope unit, O.T table, Phaco Machine and Operating Microscope)
SCBU - (Baby incubator, Phototherapy and Baby warmer)
Radiology Digital -(X-ray, Ultra sound)

FACULTY APPRECIATION



Dr.L.Sharmila Professor and Head of Computer Science and Engineering department has published a book titled **“THE FUTURE OF THE PROMPT ENGINEERING”** on 13th August 2023.

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DEPARTMENT MEETING



The Departmental meeting for the biomedical engineering was held on 16th August 2023. The main agenda of the meeting was the allocation of IQAC files and the preparation of files for NBA compliance were the key points discussed on the meeting.

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FACULTY ACHIEVEMENT

RSC Advances

ROYAL SOCIETY OF CHEMISTRY

PAPER

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Cite this: RSC Adv., 2023, 13, 24272

Enhanced electrochemical performance of the MoS₂/Bi₂S₃ nanocomposite-based electrode material prepared by a hydrothermal method for supercapacitor applications

Kamal Batcha Mohamed Ismail,^{ab} Manoharan Arun Kumar,^{a*} Ramasamy Jayavel,^a Mukannan Arivanandhan,^c and Mohamed Abubakkar Mohamed Ismail^c

Supercapacitors are widely used energy storage systems in the modern world due to their excellent electrochemical performance, fast charging capability, easy handling, and high power density. In the present work, pure MoS₂ and MoS₂/Bi₂S₃ nanocomposites with different compositions of bismuth were synthesized by the hydrothermal method. The structural properties of the electrode materials were studied using the XRD technique, which confirmed the formation of MoS₂ and the secondary phase of Bi₂S₃ while increasing Bi substitution. The morphological studies of the synthesized electrode materials were performed using SEM, TEM, and HRTEM techniques, which indicated the 3D layered hierarchical structure of MoS₂ nanospheres and the nanosheet-like structure of Bi₂S₃. The electrochemical properties of pristine MoS₂ and MoS₂/Bi₂S₃ nanocomposites were analysed by CV, CP, and EIS techniques using a 2 M KOH electrolyte in a three-electrode system. The CV curves show evidence of significant improvement in the electrochemical performance of MoS₂/Bi₂S₃ composites compared to that of pure MoS₂. The calculated specific capacitances of MoS₂/Bi₂S₃ nanocomposites were relatively higher than those of pristine MoS₂. The 20 mol% Bi added sample showed a maximum specific capacitance of 1050 F g⁻¹, compared to pristine MoS₂ and other samples at a current density of 1 A g⁻¹. The kinetic electrochemical process was studied. The Nyquist plots indicated that the Bi-added nanocomposite showed lower R_{se} and R_{CT} values, which resulted in high electrochemical performance. The experiment revealed that Bi-substitution can further enhance the electrochemical energy storage performance of MoS₂ for supercapacitor applications.

Received 10th June 2023
Accepted 30th July 2023
DOI: 10.1039/d3ra03892k
rsc.li/rsc-advances

Mr. K. Mohamed Ismail, Assistant Professor, Department of Electronics and Communication Engineering has Published a Paper on 'Enhanced electrochemical performance of the MoS₂/Bi₂S₃ nanocomposite-based electrode material prepared by a hydrothermal method for super capacitor applications' in the journal of RSC Advances, SCI, Impact factor : 4.0.

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STUDENT ACHIEVEMENT



Diploma of Completion

Proudly presented to:

Harini AK

For successfully completing the course:

**Build Your First Automation with
StudioX (v2022.10)**

08/09/2023

Date of issue



UiPath Academy

A.K. Harini, Student, IV Year, Electronics and Communication Engineering has completed a course on “**Build your First Automation with StudioX (v2022.10)**” in Ui Path Academy.

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STUDENT PARTICIPATION



D Brighten Samuel, IV year student, Department of Mechatronics Engineering has been congratulated by **Bureau of Indian Standards (BIS) and MyGov** on participating and successfully completing the **Quiz on Quality & Standards** on 15th August 2023.

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STUDENT ACHIEVEMENT



Nanthini Priya R, III Year student, Department of Information technology, has completed online certification course on “**Make impactful Presentations**” organized by **tcsiQN** in the month of July 2023 and certificate issued on July 12, 2023.

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STUDENT PARTICIPATION



Certificate of Participation

This certificate is presented to **T KASI RAJAN** for participating in “**Trash to Treasure Ideation Hackathon, 2023**” in the Crop residues category.

Date : 05 June, 2023

**#Ideation
Hackathon**
By CPCB


Prashant Gargava
Member Secretary
Central Pollution Control Board

T Kasi Rajan, IV year student, Department of Mechatronics Engineering has participated in the **Trash to Treasure Ideation Hackathon, 2023** in the Crop residues category organized by **Central Pollution Control Board (CPCB)** held on 5th June 2023.

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STUDENT ACHIEVEMENT



Diploma of Completion

Proudly presented to:

Rithanya Mohan

For successfully completing the course:

**Build Your First Automation with
StudioX (v2022.10)**

08/09/2023

Date of issue

UiPath Academy



Rithanya Mohan, Student, III Year, Electronics and Communication Engineering has completed a course on “**Build your First Automation with StudioX (v2022.10)**” in Ui Path Academy.

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STUDENT PARTICIPATION



शिक्षा मंत्रालय
MINISTRY OF
EDUCATION



Certificate Of Participation

MyGov & Ministry of Education congratulate

Gbkirthicklochan

for successfully completing the Quiz on
Lifestyle for Environment
We acknowledge your efforts. Keep participating!

Director, NCERT

GB Kirthick Lochan, III year student, Department of Mechatronics Engineering has been congratulated by **MyGov and Ministry of Education** on participating and successfully completing the **Quiz on Lifestyle for Environment** on 15th August 2023.

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ARTICLE IN PRESS

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Influence of modified operating parameters and thermal barrier coating on diesel engine performance using punnai oil mixture

Narendranathan S.K.^{a,*}, Pandiyarajan R.^b, Purushothaman Panneerselvam^a, Sabarish S.^c^a Department of Mechanical Engineering, Agni College of Technology, Thalambur, Chennai 600130, India^b Department of Mechatronics Engineering, Agni College of Technology, Thalambur, Chennai 600130, India^c Department of Mechanical Engineering, K. L. N. College of Engineering, Pottapalayam, Sivaganga 630611, India

ARTICLE INFO

Keywords:

Punnai oil
Diesel engine
Modified engine parameters
Engine performance
Emissions analysis

ABSTRACT

The current investigation examined how the combined use of Modified Operating Parameter (MOP) and Thermal Barrier Coating (TBC) enhanced the performance, combustion, and emission characteristics of a diesel engine running on Punnai oil fuel. In this study, it was found that the Punnai oil blended with diesel could effectively increase engine efficiency and decrease emissions under MOP and TBC. Based on the results of the testing, the 60 P (where P denotes the blend percentage of Punnai oil in Diesel) fuel blend proved to be the most efficient fuel blend for the engine in terms of Cylinder Pressure, Heat Release Rate (HRR), and Brake Thermal Efficiency (BTE) in comparison with the 70 P and 80 P fuel blends. Furthermore, the 60 P blend demonstrated lower emissions of Carbon Dioxide (CO₂) and Hydrocarbons (HC) than the other blends, although it produced higher levels of Nitrous Oxide (NO_x) and Smoke Opacity. The study indicates that utilizing a 60 P Punnai oil fuel could result in improved engine performance and reduced emissions.

Dr.R.Pandiyarajan, Head, Department of Mechatronics Engineering has published an article on **Influence of modified operating parameters and thermal barrier coating on diesel engine performance using punnai oil mixture** in the **Journal of Engineering Research** published by **Elsevier** available online in **Science Direct** from 12th August 2023.

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INDEPENDENCE DAY PLEDGE

Dr S Geerthik

AI Superhero

I promise to India that I will be an
AI Superhero by 2026

MY
PROMISE
TO INDIA

THANNATCHI ENIYAN

CLOUD ENGINEER

I promise to India that I will be a
CLOUD ENGINEER by 2025

MY
PROMISE
TO INDIA

Muthukumaran A

Blockchain Wizard

I promise to India that I will be a
Blockchain Wizard by 2025

MY
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TO INDIA

Lakshmi Priya R V

Data King

I promise to India that I will be a
Data King by 2025

MY
PROMISE
TO INDIA

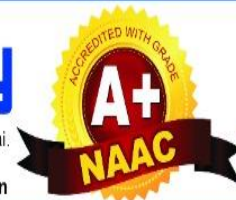
The Independence Day technology pledge is taken by the Information technology faculty and students on 15-08-2023 on the Future skills prime ,Nasscom Digital Skilling Initiative.

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INDEPENDENCE DAY PLEDGE

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prime
A NAAC - Nasscom Digital Skilling Initiative

SATHYAN H

Robotics Trailblazer

I promise to India that I will be a
Robotics Trailblazer by 2024

MY
PROMISE
TO INDIA

futureskills
prime
A NAAC - Nasscom Digital Skilling Initiative

Nivi V

Cybersecurity Commander

I promise to India that I will be a
Cybersecurity Commander by 2026

MY
PROMISE
TO INDIA

futureskills
prime
A NAAC - Nasscom Digital Skilling Initiative

SENTHIL KUMAR

Cybersecurity Commander

I promise to India that I will be a
Cybersecurity Commander by 2024

MY
PROMISE
TO INDIA

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YOGESH M

Data King

I promise to India that I will be a
Data King by 2024

MY
PROMISE
TO INDIA

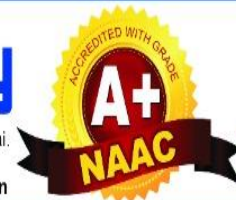
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THE FUTURE OF THE PROMPT ENGINEERING

Dr. S. Geerthik
Dr. I. Sharmila
T.P. Anish
Dr. R. Ramya

The Future of the Prompt Engineering

Author Name: [Dr. S. Geerthik](#) | Format: [Paperback](#) | Genre: [Educational & Professional](#) | [Other Details](#)

The field of prompt engineering is rapidly evolving, with new developments happening all the time. As AI models become more powerful and sophisticated, the possibilities for prompt engineering will only continue to grow. This field has the potential to revolutionize the way we interact with AI and to create new and innovative applications for AI technology.

In this book, we have explored the basics of prompt engineering, including its history, key concepts, and future prospects.

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Dr. S. Geerthik, Head of the Department, Department of Information Technology, had published a book titled "**The Future of the Prompt Engineering**" with ISBN number "9798890674241".

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CLUB ACTIVITY



C.Anand, Assistant Professor, Department of Aerospace Engineering, conducted an interactive activity topic on **Aptitude Training and The concept of an aerospace-related Quiz** on August 5, 2023, and students solved some kind of aerospace- related puzzles during that session.

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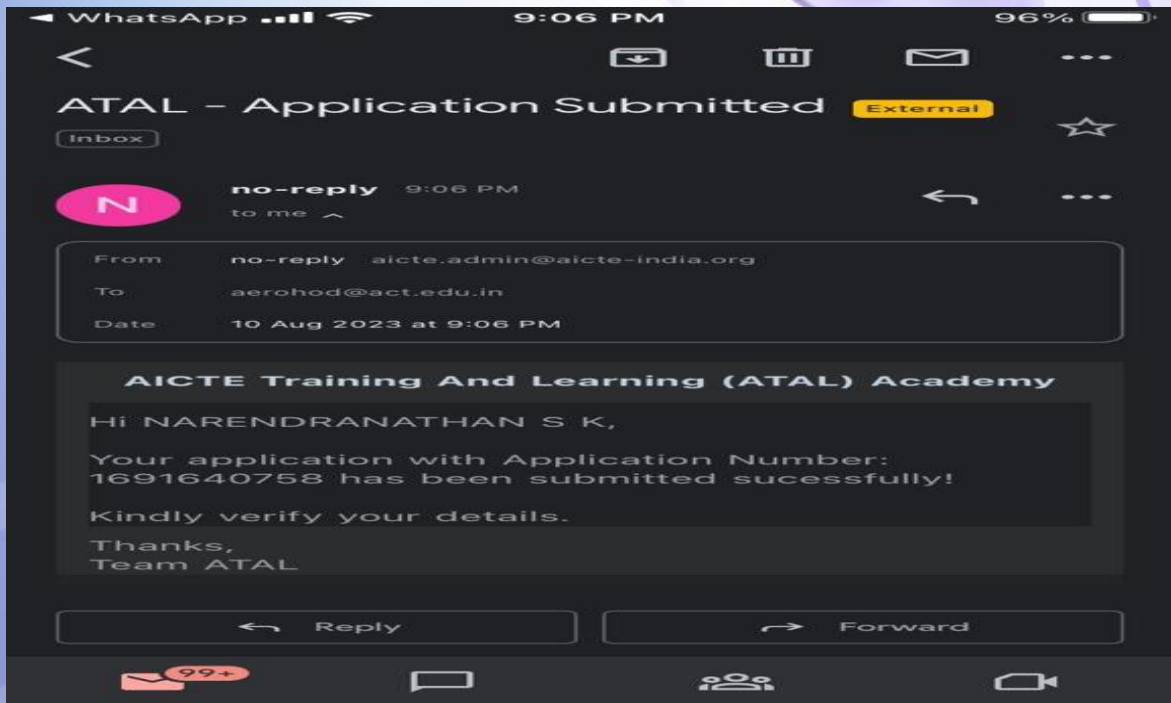


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AICTE FUND PROPOSAL TO THE ATAL TEAM



Dr. S.K. Narendranathan, Associate Professor, and **S. Prasanth**, Assistant Professor, Department of Aerospace Engineering, have successfully submitted the AICTE fund proposal request to the AICTE Training And Learning (ATAL) Academy team on August 10, 2023.

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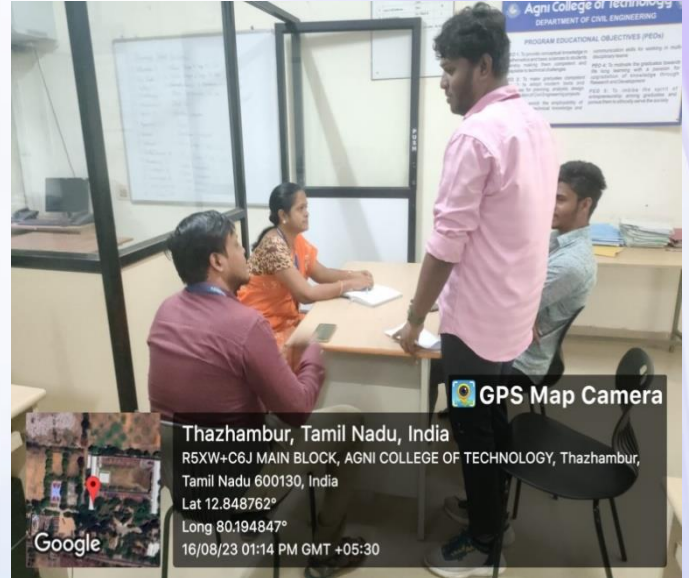
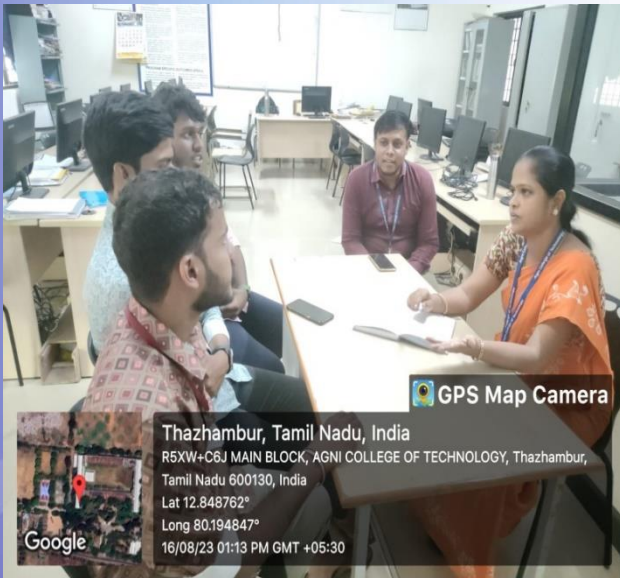


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CLASS COMMITTEE MEETING



The Department of Civil Engineering has conducted a first class committee meeting for IV Years students on 16th August 2023. Mrs.R.Beaula Jasmine,Head, have addressed regarding portion coverage, project status, industrial training and also motivated the students to participate in various national level competitions.

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STUDENT PARTICIPATION



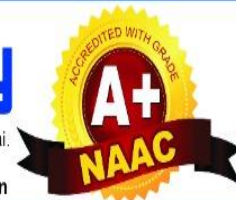
Mandhramoorthy. N, III year student, Department of Artificial Intelligence and Data Science has undergone **Internship** training on **Python** organized by **Internpe** from 17th July to 13th August 2023.

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STUDENT PARTICIPATION



Mukesh. N, III year student, Department of Artificial Intelligence and Data Science has undergone **Internship** training on **Web Development** organized by **Internpe** from 17th July to 13th August 2023.

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FACULTY PARTICIPATION

06.07.2023

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
DOTE Campus, Chennai – 600 025**PROPOSALS INVITED UNDER
SCIENCE AND TECHNOLOGY PROJECT SCHEME**

This scheme is to promote R&D work having social relevance, significance and usefulness to our State. The major area of research may be in fields such as i) Agriculture Sciences, ii) Biological Sciences, iii) Chemical Sciences, iv) Environmental Sciences, v) Engineering and Technology vi) Mathematical Sciences vii) Medical Sciences, viii) Physical Sciences, ix) Social Sciences and x) Veterinary Sciences. Under this scheme, financial assistance to the tune of **Rs.3.00 to 5.00 lakhs** is provided for a period of **2 years** to scientists and faculty members working in the above fields in any of the recognized Universities/Colleges/ Research institutions in the State. Projects which are having potential and usefulness to our state may be supported for next level development. Those who availed financial support under this scheme during last two years and age above 55 years need not apply. Advance and soft copies of the proposals will not be considered.

To avail financial support for Science and Technology Projects, **FOUR COPIES** of proposals in the prescribed format along with required enclosures may be sent to **Member Secretary, Tamil Nadu State Council for Science and Technology, DOTE Campus, Chennai – 600 025 on or before 17.08.2023, 5.00pm**. Following format is to be expanded wherever required and separate statement(s) are to be enclosed as required.



Dr. Ishwarya M. V ,Head, Department of Artificial Intelligence and Data Science has submitted a proposal **"Morse Code Communication for Multiple Disability Users(Deaf, Dumb and Blind) in TNSCST Project Scheme 2023-2024 for a funding of 5 lakhs.**

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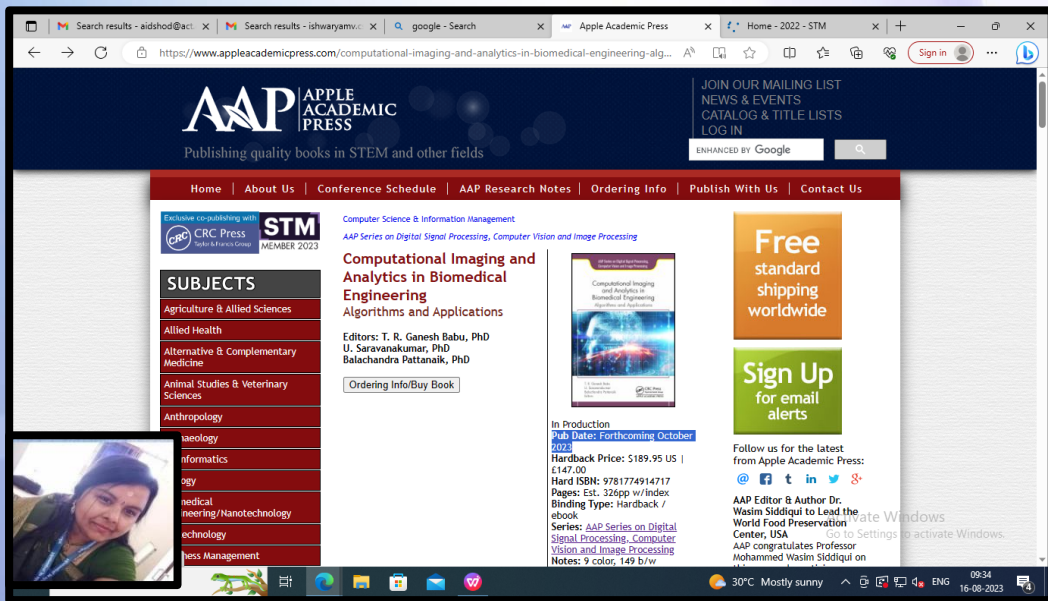
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Dr. Ishwarya M. V ,Head, Department of Artificial Intelligence and Data Science has submitted a Book Chapter in Apple Academic Press Indexed By Taylor and Francis Group on Chapter topic on **Machine Learning for Medical images**, and It will be published in month of October 2023.

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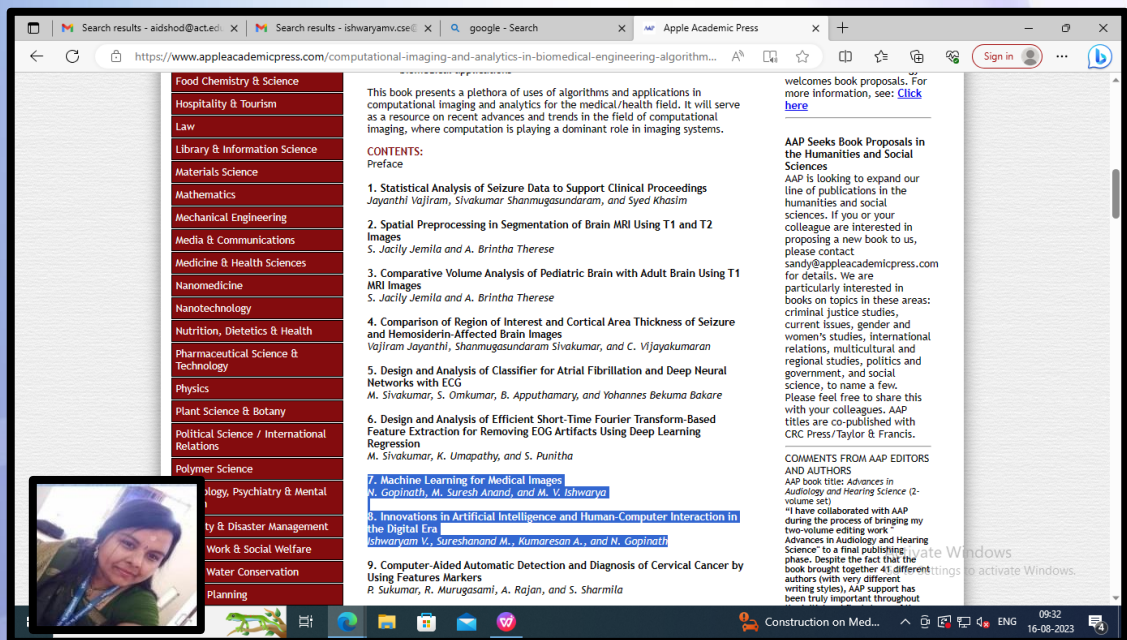
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Dr. Ishwarya M. V, Head, Department of Artificial Intelligence and Data Science has submitted a Book Chapter in Apple Academic Press Indexed By Taylor and Francis Group on Chapter topic on **Innovations in Artificial Intelligence and Human-Computer Interactions in the Digital Era**, and It will be published in month of October 2023.

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DEPARTMENT MEETING



The Faculty Members meeting were conducted in the physics lab on 14.08.2023. **Dr. Arul Kulandaivel**, Head, Department of S & H, addressed the faculty members by initiating with a pleasing note of appreciation and gratitude for the efforts taken by S & H team to complete 1st batch successfully with no drawbacks. The following significant notes discussed are as follows, the proposed plan and activities are discussed for the benefit of the upcoming engineers (2023-27). He had disseminated the department rules, regulations, and strategic plans for all the faculty members. He has assigned the duties and responsibilities of the faculty members to conduct "The Fusion Flare" through online mode effectively. Eventually, Preparedness for the autonomous also discussed.

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