

WEEKLY NEWSLETTER
(MAY 27<sup>th</sup> to 31<sup>st</sup>)

**Editor in Chief** 

**Editors** 

Dr. Srinivasan Alavandar Principal, ACT Ms N Dhivya, AP - S&H Ms S Archana AP - EEE Mr V Kothantapani - EEE II Year



### MoU



This Memorandum of Understanding ("MoU") is between ACT Chennai and IKP EDEN Hyderabad. The primary goal of the MoU is to encourage young minds to seek design solutions to unfulfilled problems in our society. The proposed partnership between IKP EDEN and the Partner Institute aims to engage and excite young minds at the Partner Institute to generate Design Ideas for the Design Impact Movement. For further information contact SPOC: Dr. Deepak Sampathkumar, Assistant professor, Mechanical Sciences, ACT.





# DEPARTMENT RESEARCH



The Department of Electronics and Communication Engineering and Centre for Research and Development jointly organized a seminar on "Research Methodologies in Nano Technology for Energy Applications" on 29.05.2024. Mr. Mohamed Ismail, Assistant Professor, presented his research collaboration and Nano technology based applications. Dr. J. Rajeswari, and Dr. P. Chitra, Assistant Professor, Coordinated the event with Dr. R. Ratheesh, Assistant Professor, HOD/ECE.







### **GALLERY**

















Accredited by NBA, NAAC with A+ Grade, Estd.2001. Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai OMR, Chennai 2044 4997 2900 © 94450 54081 © 81221 24081 | www.act.edu.in



### **BoS MEETING**





The **first BoS Meeting** for the Department of Biomedical Engineering was conducted on 23<sup>rd</sup> May 2024. The curriculum-2024 of the department was presented to the Principal, Dean, and Board members. The board members recommended the curriculum for further approval.



### **BOS MEETING**





The Department of **Electrical and Electronics Engineering** has successfully completed the **First BoS Meeting on** 24th May 2024. We thank the **Management , Principal and Dean** for their guidance and support. We also thank all **HoDs** and **faculty members** for their support.



### **BoS MEETING**





First BoS Meeting for the Department of Civil Engineering was conducted on 24th May 2024. The ACT Civil curriculum 2024 was presented to the Principal, Dean Academics, Controller of Examination and Board members. The board members suggested the necessary changes in the curriculum for further approval.







### **BoS MEETING**







The First BoS Meeting for the Department of Science and Humanities was held on 24th May 2024. Dr. Arul Kulandaivel, Head, Department of S&H presented the Curriculum and Syllabus for R2024. The Head, Anna University nominee, academicians from other Universities ,Industrial experts, all The faculty members of Science and Humanities and alumni presented at the venue. The Board **Members** appreciated and recommended implementation of the Curriculum and Syllabus for Upcoming batch 2024-2028. The meeting ended with appreciation and the head thanked the Management, Principal, Dean, CoE, Bos members, stakeholders, all faculty members and admin & non teaching staffs for their great support and the smooth conduction of BoS Meeting..









### **BOS MEETING**



The department of Chemical Engineering has successfully completed the **first BoS Meeting** on 29th May 2024. **Dr. P.** Murugan, Associate Professor and Head, presented the curriculum and syllabus for R-2024. We thank the Management, Principal and Dean for their guidance and support. We also thank all faculty members for their support.







Conference Paper

Cloud-Based Road Safety for Real-Time Vehicle Rash Driving Alerts with Random Forest Algorithm

Presitha Aarthi, M., Reddy, C.M., Anbarasi, A., ...Ishwarya, M.V., Murugan, S.

2024 3rd International Conference for Innovation in Technology, INOCON 2024, 2024

Show abstract ∨ Related documents

Conference Paper

Navigating Grid Dynamics with V2G Technology and Naive Optimization in IoT Systems

Arulprakash, M., Raman, R., Gokhale, A.A., ...Ishwarya, M.V., Sujatha, S.

2024 3rd International Conference for Innovation in Technology, INOCON 2024

Show abstract ∨ Related documents



Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science, presented the IEEE paper "Navigating Grid Dynamics with V2G Technology and Naive Bayes Optimization in IoT Systems" at the 3rd International Conference for Innovation in Technology, INOCON 2024 on 27th May. Indexed by Scopus.







Conference Paper

Cloud-Based Road Safety for Real-Time Vehicle Rash Driving Alerts with Random Forest Algorithm

Presitha Aarthi, M., Reddy, C.M., Anbarasi, A., ...Ishwarya, M.V., Murugan, S.

2024 3rd International Conference for Innovation in Technology, INOCON 2024, 2024

Show abstract ∨ Related documents

### Conference Paper

Navigating Grid Dynamics with V2G Technology and Naive Optimization in IoT Systems

Arulprakash, M., Raman, R., Gokhale, A.A., ... Ishwarya, M.V., Sujatha, S.

2024 3rd International Conference for Innovation in Technology, INOCON 2024

Show abstract ∨ Related documents



Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science, presented the IEEE paper "Cloud-Based Road Safety for Real-Time Vehicle Rash Driving Alerts with Random Forest Algorithm" at the 3rd International Conference for Innovation in Technology, INOCON 2024 on 27<sup>th</sup> May. Indexed by Scopus.











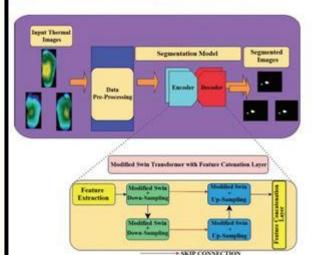
Mr. Vishnuvardhan S., Assistant Professor in the Department of Civil Engineering, has successfully completed the NPTEL course titled "Basic Construction Materials" awarded with an Elite certification for January to April 2024.





Design and Numerical Analysis of Double Encoder-Swinnets-A Novel Swin Transformers-Based Diabetic Foot

- D. Maheswari and M. Kavalvizhi
- J. Nanoelectron. Optoelectron. 19, 737-746 (2024) Abstract] [Full Text - PDF] [Purchase Article]





Ms. D. Maheswari, Assistant Professor, Department of Electronics and Communication Engineering published a manuscript titled "Design and Numerical Analysis of Double Encoder-Swinnets-A Novel Swin Transformers-Based Diabetic Foot" in the Journal of Nano electronics and Optoelectronics (WoS, SCI Indexed,

BE AN ACTioneer, Aspire To BE the BEST





Annexure 1) with IF: 1.06







### Elite

## IPTEL Online Certification

This certificate is awarded to

**S MUTHURAJAN** 

for successfully completing the course



with a consolidated score of

Online Assignments | 25/25

Proctored Exam | 57/75

Total number of candidates certified in this course:32882

Jan-Apr 2024

(12 week course)

Prof. Haimanti Banerii Coordinator, NPTEL IIT Kharagpur



Indian Institute of Technology Kharagpur





Roll No: NPTEL24CS35S553404448

To verify the certificate

No. of credits recommended: 3 or 4

Mr. Muthurajan S., Assistant Professor, Department of Electrical and Electronics Engineering has successfully NPTEL course on "Introduction to completed the Internet of Things" with an Elite - Silver.









Cost Effective Wearable Cloak for Diagnosing Early Stage Breast Cancer: A Preliminary Study

Publisher: IEEE

Cite This

J. Rajeswari; P. Chitra; R. Ratheesh; V. Balaji; M. Sreedharen; S. Premalatha All Authors







Cancer is an extremely painful and potentially fatal illness. Among all types of cancer, breast cancer is the most disturbing diseases for women. Statistics show that 42,260 fatalities per year are caused by breast cancer worldwide. Although mammography is the most popular technique, many people find it difficult and painful. The proposed study is used to develop a wearable cloak by using microwave sensors and controllers for early diagnosis of breast tumors. The microwave sensors will provide an accurate and reliable diagnosis of breast cancer without causing discomfort to the patient. The methods used for diagnosing is image processing, which is a non-invasive, radiation-free technique that can detect abnormalities in the breast. This technique is not only effective in diagnosing breast tumors but is also cost-effective, making it more accessible to patients. Infrared contactless sensor was covered with cotton in this developed device and effectively used for early diagnosis of breast tumors. Initially, LabVIEW software process was used to differentiate the normal and abnormal breast tissue temperature with the help of threshold values. This output will be forwarded via mobile phone



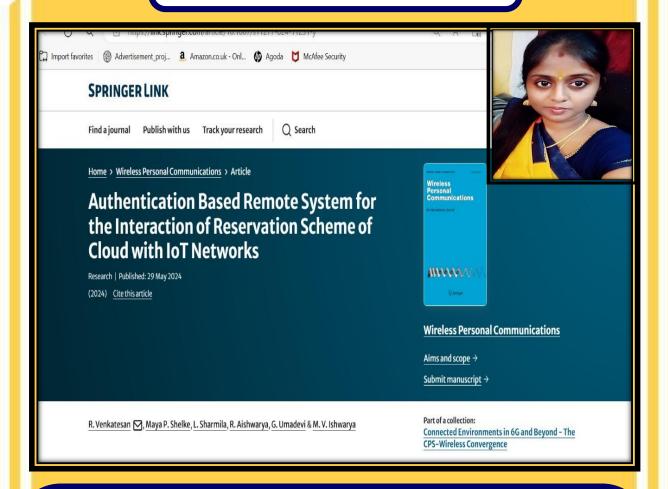
Dr. J. Rajeswari, Dr. P. Chitra and Dr. R. Ratheesh, Assistant Professors, and M. Sreedharen Premalatha, IV and III Year Students, Department of Electronics and Communication Engineering, published a manuscript titled "Cost Effective Wearable Cloak for Diagnosing Early Stage Breast Cancer: A **Preliminary Study"** in the **IEEE** 2024 2nd International Conference on Networking and Communications (Indexed in Scopus) on 28.05.2024.









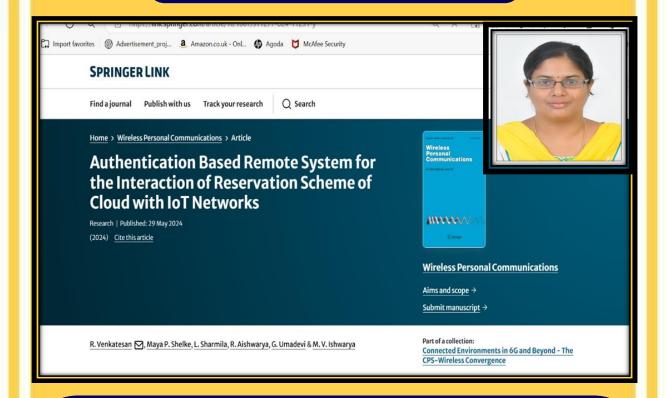


A research paper titled, "Authentication Based Remote System for the interaction of Reservation Scheme of Cloud with IoT networks", by Mrs. Uma Devi G, Assistant Professor, Department of Computer Science and Engineering, got published in a SCI JOURNAL on May 29th 2024.









paper titled, "Authentication research Remote System for the interaction of Reservation Scheme of Cloud with IoT networks", by Mrs. R. Aishwarya, Assistant Professor, Department **Computer Science and Engineering**, got published in a SCI JOURNAL on May 29th 2024.

BE AN ACTioneer. Aspire To BE the BEST





OMR, Chennai 2044 4997 2900 @ 94450 54081 @81221 24081 | www.act.edu.in





Dr. G. Kavitha, Assistant Professor, Department of Science and Humanities (Chemistry), has published a research article, "Study on the effect of wet scrubbing technique on emissions in a dual fuel engine operating with diesel and **hydrogen**" in Journal Environmental Science and Pollution Research, SCI and Scopus publications with an Impact factor







International Journal of Neutrosophic Science (IJNS)

Vol. 24, No. 03, PP. 220-232, 2024



Extension of arithmetic and geometric aggregating operators using new type interval-valued neutrosophic sets

M. Palanikumar<sup>1</sup>, T. T. Raman<sup>2</sup>, Swammathan Aiyared Iampan<sup>4,\*</sup>

<sup>1</sup>Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Saveetha University, Chennai, Tamil Nadu 602105, India

<sup>2</sup>Department of Mathematics, St. Joseph's Institute of Technology, OMR, Chennai-600119, India
<sup>3</sup>Department of Mathematics, Agni College of Technology, Thalambur, Chennai-600130, India.
<sup>4</sup>Department of Mathematics, School of Science, University of Phayao, Mae Ka, Mueang, Phayao 56000,

Thailand.

Emails: palanimaths86@gmail.com; ramanstat@gmail.com; nathanswamin@gmail.com; aiyared.ia@up.ac.th

\* Corresponding author: Aiyared Iampan

### Abstract

The purpose of this article is to present a novel approach to the  $(\delta,\varepsilon)$  interval-valued neutrosophic set (IVNS). This is an extension of the IVNS. As a result of this article, we will discuss the concept of  $(\delta,\varepsilon)$  interval-valued neutrosophic weighted averaging (IVNWA),  $(\delta,\varepsilon)$  interval-valued neutrosophic weighted geometric (IVNWG),  $(\delta,\varepsilon)$  generalized interval-valued neutrosophic weighted averaging (GIVNWA) and  $(\delta,\varepsilon)$  generalized interval-valued neutrosophic weighted geometric (GIVNWG). Additionally, the  $(\delta,\varepsilon)$  IVNS approach is characterized by idempotency, boundedness, commutativity and monotonicity.

Dr. A. Swaminathan, Associate Professor, Department of Science and Humanities (Mathematics), has published a research article, "Extension of Arithmetic and geometric aggregating operators using new type interval -valued neutrosophic sets" in the International Journal of Neutrosophic Science, Scopus publications.









### **FACULTY PARTICIPATION**

### AICTE Training And Learning (ATAL) Academy

Hi ISHWARYA M V,

Your application with Application Number: 1716529019 has been submitted sucessfully!

Kindly verify your details.



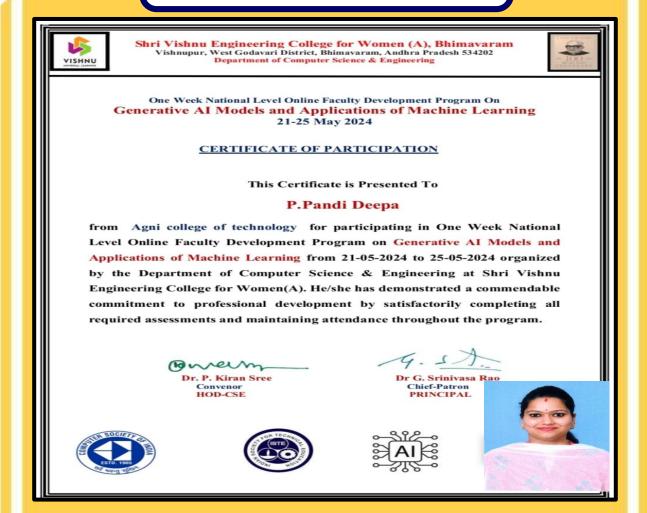


**The Department of AIDS** applied for **BASIC ATAL FDP-** 6 days offline FDP program . **Dr. Ishwarya M.V.**, Associate Professor and Head of the Department of AIDS as PI , and **Geetha.T**, Assistant Professor , Department of Artificial Intelligence and Data Science as Co PI have applied jointly on 26<sup>th</sup> may 2024.





### **FACULTY PARTICIPATION**



Pandi Deepa.P, Assistant Professor, Department of AIDS attended 5-days online FDP program "Generative AI Models and Applications of Machine Learning" at Shri Vishnu Engineering College for Women from 21st to 25th May 2024.



### **FACULTY PARTICIPATION**



Rahul.J, Assistant Professor, Department of AIDS attended the 2-day FDP program "Design Thinking, Research Article Writing, and Patent Documentation for New Product Development "at QIS College of Engineering & Technology from 22nd and 23th May,2024.







### FACULTY PARTICIPATION



## NPTEL-AICTE **Faculty Development Programme**



(Funded by the MoE, Govt. of India)



This certificate is awarded to

**POOJAS** 

for successfully completing the course

The Joy of Computing using Python

with a consolidated score of 66 %

Prof. Andrew Thangaraj NPTEL Coordinator **IIT Madras** 



Duration of NPTEL course: 12 Weeks

Roll No: NPTEL24CS57S553402902

Ms.S.Pooja, Teaching Assistant, Department of Information Technology, has participated in 12 weeks faculty development programme on "The Joy of Computing using Python" conducted by NPTEL-AICTE during the months of January -April, 2024.







### **ISHRAE STUDENT MEMEMBERSHIP**



Indian Society of Heating Refrigerating & Air Conditioning Engineers

## STUDENT MEMBERSHIP CERTIFICATE

This is to certify that

## Mr. DEEPAK RAJ S

of

## Agni College of Technology

has been granted the Grade of

## Student Member of Kalpakkam Chapter

For the Society Year 2024 - 25

and is entitled to all right and privileges as provided by the Constitution and bye-laws of the Society

(Mr. Anoop Ballancy)

S00118437

(Mr. Utpal Biswas)

Membership No.

Secretary

Deepak Raj S, II year student in the Department of Mechanical and Automation Engineering, has Certified as a Student Member of the ISHRAE kalpakkam Chapter on 30<sup>th</sup> May 2024.











### ISHRAE STUDENT MEMEMBERSHIP



Indian Society of Heating Refrigerating & Air Conditioning Engineers

STUDENT MEMBERSHIP CERTIFICATE

This is to certify that

Mr. SREE ADITHYA S R

Agni College of Technology

has been granted the Grade of

Student Member of Kalpakkam Chapter

For the Society Year 2024 - 25

and is entitled to all right and privileges as provided by the Constitution and bye-laws of the Society

(Mr. Anoop Ballancy)

S00118470

(Mr. Utpal Biswas)

Membership No.

Secretary

Technologi

Sree Adithya S R, II year student in the Department of Mechanical and Automation Engineering, has Certified as a Student Member of the ISHRAE kalpakkam Chapter on 30<sup>th</sup> May 2024.







### ISHRAE STUDENT MEMEMBERSHIP



Indian Society of Heating Refrigerating & Air Conditioning Engineers

## STUDENT MEMBERSHIP CERTIFICATE

This is to certify that

Mr. SRI AKAASH S R

of

Agni College of Technology

has been granted the Grade of

Student Member of Kalpakkam Chapter

For the Society Year 2024 - 25

and is entitled to all right and privileges as provided by the Constitution and bye-laws of the Society

(Mr. Anoop Ballaney) President

S00118469

Utpal Bisses (Mr. Utpal Biswas)

Membership No.

Secretary

Sri Akaash S R, II year student in the Department of Mechanical and Automation Engineering, has Certified as a Student Member of the ISHRAE kalpakkam Chapter on 30<sup>th</sup> May 2024.





### **ISHRAE STUDENT MEMEMBERSHIP**



Indian Society of Heating Refrigerating & Air Conditioning Engineers

## STUDENT MEMBERSHIP CERTIFICATE

This is to certify that

## Mr. SUHAIL NAWAZ N

## Agni College of Technology

has been granted the Grade of

## Student Member of Kalpakkam Chapter

For the Society Year 2024 - 25

and is entitled to all right and privileges as provided by the Constitution and bye-laws of the Society

(Mr. Anoop Ballancy)

S00118467

(Mr. Utpal Biswas)

Membership No.

Secretary

Suhail Nawaz N, II year student in the Department of Mechanical and Automation Engineering, has Certified as a Student Member of the ISHRAE kalpakkam Chapter on 30<sup>th</sup> May 2024.





### STUDENT ACHIEVEMENT



Congratulations to the **Department of Civil Engineering** student Mr. Maagesh (III Year) on successfully completing the **NPTEL** course "**Basic Construction Material**" (January - April 2024) under the mentorship of Assistant Professor Mr. Vishnuvardhan S.





### STUDENT ACHIEVEMENT





Congratulations to the **Department of Civil Engineering** students **Mr. Jai Andru Barnick. A and Mr. Yashir. M.H** (II nd Year) on successfully completing the NPTEL course "**Basic Construction Material**" (January - April 2024) under the mentorship of Assistant Professor Mr. Vishnuvardhan S.





### **STUDENTS ACHIEVEMENT**





Hariharan S., Madhavan M., Velan, Ranjani R., III year students in the Department of Electrical and Electronics Engineering have successfully completed the **NPTEL course** on "SMART GRID: BASICS TO ADVANCED TECHNOLOGIES" with a consolidation score of 52%, 63%, 55%, 55% respectively under the mentorship of Dr. Radhika Somakumar, Assistant Professor, EEE.



## **STUDENTS ACHIEVEMENT**







Rishikumar S., Kothandapani V., Hariharan S., II &III year in the Department of Electrical and Electronics Engineering have successfully completed the **NPTEL course** on "Introduction to Internet of Things" with an **SILVER** under the mentorship of Mrs. Anuja Prashant Diwan, Assistant Professor , EEE .





### STUDENTS ACHIEVEMENT





**Tejashwini A., Joshika A.,** II students in the Department of Electrical and Electronics Engineering have successfully completed the **NPTEL course** on "Introduction to Internet of Things" with an Elite under the mentorship of Mrs. Anuja Prashant Diwan, Assistant Professor, EEE.





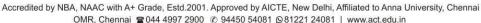






Mr. Roashan. N. D, Ms. Razul Parveen .S, Ms. Priyadharshnini. R (II Year) and Ms. Pushpapriya. A (III Year) students in the Department of Civil Engineering have participated in the International Conference on Research and Development in Engineering, Science and Technology (RADEST 2024) conducted by Mohamed Sathak AJ College of Engineering on 24.05.2024 under the guidance of Mr. Venkateswaran. S Assistant professor.









Mr. Jai Andru Barnick. A and Mr. Yashir. M.H (II Year) students of **Department of Civil Engineering** have participated in the International Conference on Research and Development in Engineering, Science and Technology (RADEST 2024) conducted by Mohamed Sathak AJ College of Engineering on 24.05.2024 under the guidance of Mr. Vishnuvardhan. S Assistant professor.









P. Nethan Reddy (IT), first year student, Department of Science and Humanities, has completed the training in Artificial Intelligence provided by CORIZO from 5<sup>th</sup> March 2024 to 5<sup>th</sup> April 2024.









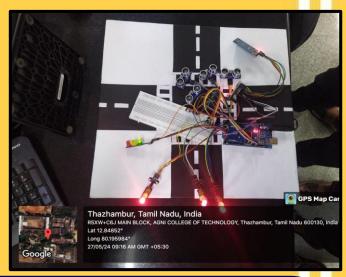
P. Nethan Reddy (IT), first year student, Department of Science and Humanities has completed an Internship in Artificial Intelligence provided by CORIZO from 5<sup>th</sup> March 2024 to 5<sup>th</sup> April 2024.





### NAAN MUDHALVAN PROJECT





Vijayahariharan K, Dhanush R, Mohamed Aamer M A, Devanathan S, II Year students from the department of Information Technology have done a Naan Mudhalvan Project in the domain Embedded System and IOT titled "SMART TRAFFIC DIVERSION SYSTEM FOR ROAD CONGESTION MANAGEMENT USING IOT" coordinated by Mrs.R.V.Lakshmi Priya

BE AN ACTioneer, Aspire To BE the BEST

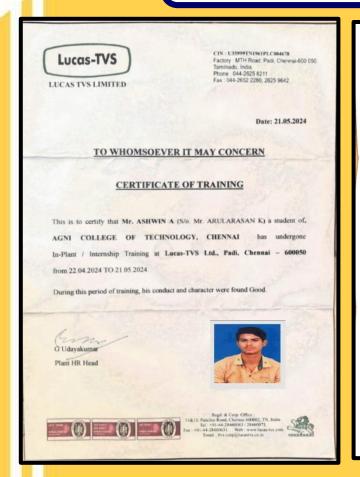




OMR, Chennai 2044 4997 2900 @ 94450 54081 @81221 24081 | www.act.edu.in



### STUDENT PARTICIPATION





Ashwin A, and Sivachandran R, II Year Students, Electronics and Communication Engineering have completed one month internship training at **Lucas-TVS Ltd**, Padi, Chennai from 22.05. 2024 -21.05.2024.

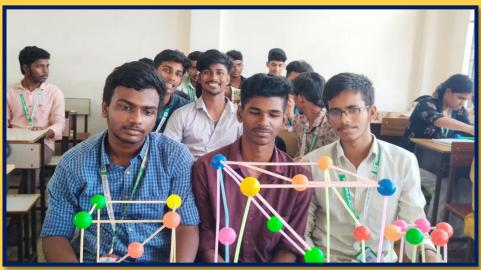




### **CLASS ACTIVITY**







Dr. S. Swathi, Assistant Professor, Department of Science and Humanities (Physics,) has conducted an activity on "Crystal Structures" for Section K (MHT).



### **DEPARTMENT MEETING**



Dr. Sureka N, Assistant Professor & Head, Department of Biomedical Engineering, conducted a department meeting and shared her insights with the faculty members about the BOS meeting. The status of the NBA compliance file report was also verified during the meeting.



### DEPARTMENT MEETING



Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science, conducted the department meeting with all the faculty members of AIDS. The following agenda items were discussed in the meeting 0n 27th May 2024: 2nd year coaching class schedule, Anna University online inspection, June 8th working day, ICSSR proposal submission, Bos Minutes and Curriculum submission, Faculty API submission.



### **DEPARTMENT MEETING**



**Dr. R. Ratheesh**, Assistant Professor and Head of the Department of Electronics and Communication Engineering has conducted **department meeting** with all faculties. The discussion includes **2nd year coaching class schedule**, **Anna University online inspection**, **BoS Minutes and Research activities**.



### **DEPARTMENT MEETING**



**Dr. Balaji Madhavan**, Head, Department of **Computer Science & Engineering**, convened a department meeting on **May 27<sup>th</sup>,2024**. The agenda included discussions on preparing for AU inspection documentation, UMIS validation, lab preparedness for AU practical exams, farewell discussions and other activities of the department.



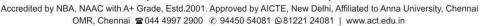


### **DEPARTMENT MEETING**

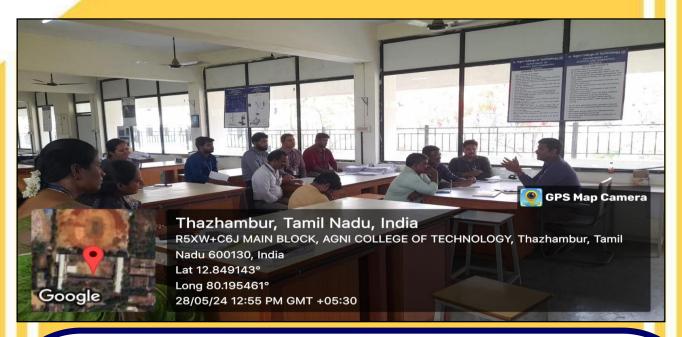


The Department of **Electrical and Electronics Engineering** has conducted a Department Meeting on May 27<sup>th</sup>,2024. The agenda included discussions on the process of curriculum design and preparations of NBA files, Coaching classes for III year students & II year students and other activities of the department.





### **DEPARTMENT MEETING**



The Head, Dr. Arul Kulandaivel, (S&H), addressed all the faculties in the physics lab on 28 May 2024. He initiated the meeting by informing about AU profile online verification with academic certificates for all faculties from 29th May. The following significant key points were discussed during the meeting: faculty members were instructed to strictly adhere to SOP regarding coaching class tests. The head instructed the faculty members that, based on the students expectations and performance, the coaching class should be conducted in a vigorous manner. The emphasis was kept on the inspection committee and department standing committee to stringently verify the marks from each subject faculty with cooperation. In addition of appreciation for the admission process, BOS submission, file maintenance & internal verification by the end of May, maintaining student regularity and special coaching classes were also discussed.





