

Issue

Volume 1 June 2024

# e-JAGON

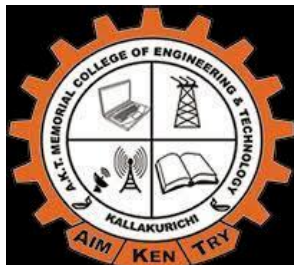
A.K.T MEMORIAL COLLEGE OF ENGINEERING AND TECHNOLOGY

Semester Newsletter



*Empower and inspire the next generation*

*Progressing towards rigorous and comprehensive engineering education*



**A.K.T MEMORIAL COLLEGE OF ENGINEERING AND TECHNOLOGY**

A.K.T Nagar, Neelamangalam

Kallakurichi - 606202. Tamil Nadu

## **ABOUT THE COLLEGE**

A.K.T. Memorial College of engineering and technology started in the year 2009-2010 as yet another feather on the crown of A.K.T Group of institutions.

### **Vision**

To be recognized globally as a leading institute that produces visionary and socially responsible engineers who make significant contributions on startups and towards the advancement of knowledge, technology, and society.

### **Mission**

To empower and inspire the next generation of engineers to excel in their entrepreneurship, professional pursuits, contribute to global technological advancements, and address societal challenges.

To provide a rigorous and comprehensive engineering education that equips students with theoretical knowledge, practical skills, and a mindset for continuous learning.

To facilitate advanced learning and industry related projects.

Our institute established Institute Innovation Council (IIC) in the year 2022-23.

Our institute is recognized with star rating by Institute Innovation Council (IIC) for activities conducted inside the campus

ISTE student chapter is established during 2023-24

The institution is certified by ISO for maintaining the standards

Core companies such as Sakthi Auto Component Limited, Sharda Motor Industries Ltd, Sri Sai Power and Equipment's Private Limited and Reliance Nippon Life Insurance visited the campus for campus interview



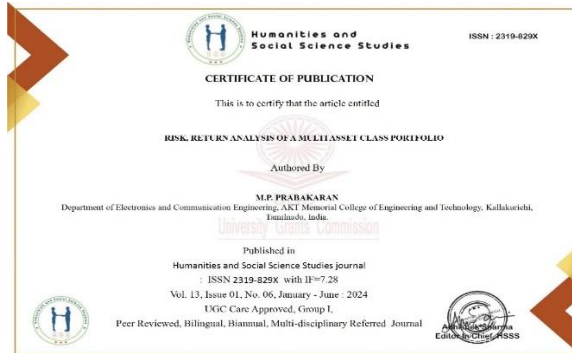
Institute intake is increased from 360 to 420 with 60 Seats in B.E (CSE) and B.Tech (AIDS)

Students have secured NPTEL Certification in various courses

Faculty members secured more certification in NPTEL and FDPs

## OUTREACH ACTIVITY

Dr R Thanigaivelan is honored by Elsevier and EngiScience publisher for review contribution to the journal



Distribution of dress and grocery to the orphanage on 15.08.23

## EVENTS CONDUCTED IN THE DEPARTMENT

International Yoga day was celebrated on 21.06.2024

Resource Person: Mr. PK. Manikandan,  
Physical Director  
AKT Memorial Vidya Sacket School  
Venue: Indoor Stadium



Anti-Drug Club establishment at AKTM CET



Resource Person: Mr.S.Jeeva  
Sr.Robotic Engineer  
Malles automated And  
Robotics System, Chennai.

Mr.S Jeeva shared his college  
experience and motivated the  
students especially who are in Tamil  
medium by highlighting his own  
experience



## EVENTS CONDUCTED IN THE DEPARTMENT

Arduino and various sensors for IoT projects seminar program on 24.08.2023

Resource

Person:Dr.M.Muruganandham  
Lecturer, Department of Engineering (Electrical Engineering Section),  
University of Technology and Applied Sciences – Ibri,  
Sultanate of Oman



Workshop on Design and development of inverter using MATLAB/SIMULINK and FPGA on 08.11.2023

Resource

Person:Dr.S.Thamilarasan  
Founder  
S.K. Powercon Fabricators,  
Chennai.



Carrer Guidance program on 02.04.2024

Resource

Person:Mr.R.Jayachandran  
Sr.GIS field service Engineer,  
Oman.



Soft Skill Training Program 2k24  
07-03-2024 to 24-04-2024

Resource Person: Rubika N  
Human Resource Person  
Risinh Technos Pvt Ltd  
Bangalore



**Title of the Event:** One day student development program on Research Methodology  
**Event date:** 17.04.2024  
**Event venue:** Panel Room  
**Event Resource person:** Dr. T. Saravanakumar  
**Event Coordinator:** Dr. M.P. Prabakaran  
**No. of students participated:** 81








**Title of the Event:** 14<sup>th</sup> National Level Technical Symposium on “Electro Wartech”-2K23  
**Event date:** 31.10.2023  
**Event venue:** Auditorium  
**Event Resource Person:** Dr.K.Pushpanathan M.E., Ph.D.  
**Event Coordinators:** Dr.M.P.Prabakaran, ASP & Mrs.M.S.Sathya, AP, AKTM CET  
**No. of Students participated:** 282



Department of Electronics and Communication Engineering had organized an expert talk on – Skill Acquisition for Start-up on 23rd August, 2023 for the students and faculties on roles and responsibilities of entrepreneur. The speaker of the event was Mr. Kathirvel Murugan, Founder, and Salem CCTV.



## ALUMNI TALK

<p>Myself E.Abi from EEE dept currently shortlisted in Mitsuba, Sakthi Auto Components as a Engineer Trainee, like me AKTMCET has given me the opportunity to girls students from economical weaker and rural back ground students. Thank you AKTMCET for state I am being.</p>	
	<p>I am B.Gayathri from EEE dept. shortlisted for Mitsuba, Sakthi Auto Components as a Engineer Trainee. I have good learning experience in AKTMCET</p>
<p>I am G.Harikrishnan,EEE,shortlisted in Prime Tech, Saradha motors as a Engineer Trainee.I had good teachers to motivate us throughout the 4 years of study</p>	
	<p>I am S.Karthickraja,EEE, short listed in Prime Tech,Sakthi Auto components as a Engineer Trainee, Thanks for the placement cell and faculty members.</p>
<p>Myself Abinaya got placed in IBM,I thank the AKTMCET and faculty members for their continuous support.</p>	

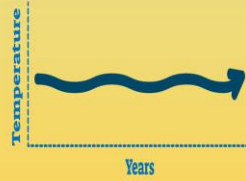
## STUDENTS CORNER

### Know the meaning of words

Bridges are primarily built to connect two points over a body of water, a valley, or any physical obstacle. Flyovers are constructed to navigate intersections, congested areas, or other roads efficiently, providing an elevated route for vehicles.



Can change within  
minutes or hours



Average weather over  
many years in one  
specific place

*The primary difference between weather, and climate is the duration over which they are measured. Weather includes the short-term changes of the atmospheric conditions, while climate is the observation of weather for a longer-term.*

Typically, seas are partially enclosed by land. Seas are found on the margins of the ocean and are partially enclosed by land.



How is the word 'mischievous' pronounced? The word consists of only three syllables, and not four. The first syllable is pronounced like the word 'miss'; the following 'ch' sounds like the 'ch' in 'chips' and 'cheat'. The 'ie' in the second syllable is like the 'i' in 'fit', 'bit' and 'kit', while the 'ou' in the third sounds like the 'a' in 'china'. The word is pronounced 'MISS-chi-ves' with the stress on the first syllable. A 'mischievous person' is someone who has fun causing trouble; he usually finds playful and harmless ways of doing this. A 'mischievous remark', on the other hand, is one that is intended to cause serious damage or trouble



## PLACEMENT



Shortlisted for Primtec, Chennai



Group photo of Placed students at Mitsuba India Pvt Ltd



Pre placement talk by Sakthi Auto Components Ltd, Erode



Group photo of students placed in SRI SAI POWER AND EQUIPMENTS PRIVATE LIMITED



Placed students at Reliance Nippon Insurance Ltd, Coimbatore

## FACULTY ACHIEVEMENT

### Faculty publications

- Health Royal Hermonson R, Thanigaivelan R, Kavya V, Rathinasamy K, Jagadeesha T. Performance of electrochemically deposited hydroxyapatite on textured 316L SS for applications in biomedicine. Surface Engineering. 2023;39(7-12):882-891. doi:10.1080/02670844.2023.2265616
- N. Rajan, M. Naga Swapna Sri, P. Anusha, R. Thanigaivelan & S. Vijayakumar Performance Optimization of Electrochemical Machining Parameters on Aluminum Metal Matrix Composite. Surf. Engin. Appl.Electrochem. 59, 719–727 (2023). <https://doi.org/10.3103/S1068375523060157>
- Preetha Jagannathan, Santosh Kumar Tamang, R. Thanigaivelan, & T. Jagadeesha, Optimization of Laser Parameters Using NSGA-II for the Generation of Bioinspired Surface, Surface Review and Letters,2024,doi: 10.1142/S0218625X24501221

- Manikannan Palanivel, Alaudeen A, Pandiyan K.S, Sivaprakasam P, Hybrid fuzzy and fire fly algorithm – based MPPT controller for PV system using super lift boost converter. The scientific Temper (2023) Vol 14(3):625-628. doi:10.584/SCIENTIFICTEMPER-2023.14.3.09
- V Senthil Kumar, R Aruna, M Varalatchoumy, P Manikannan P, "Optimizing solar power plant efficiency through advanced analytical framework and comparative analysis" Journal of Intelligent & Fuzzy Systems, 1-17, Issue 2, Volume 46, 2024, DOI: 10.3233/JIFS-235578.
- G. Deepika, N. K. Anushkannan, Manikannan Palanivel, , "Performance Analysis of Photonics in Wireless Applications," 2023 7th International Conference on Electronics, Communication and Aerospace Technology (ICECA), Coimbatore, India, 2023, pp. 1-5, doi: 10.1109/ICECA58529.2023.10395240.
- M.P.Prabakaran. Risk, Return Analysis of a Multi Asset Class Portfolio. Humanities and Social Science Studies journal. January-June 2024; ISSN 2319-829X with IF=7.28. Vol. 13, Issue 01, No. 06, January - June : 2024
- S.S.Raju, Design to SHOE. The Patent Office, Government of India. Design No. 404761-001. Date: 17.01.2024

## NPTEL certificates



**Elite**  
**NPTEL Online Certification**  
 (Funded by the MoE, Govt. of India)

This certificate is awarded to  
**SUBASHINI T**  
 for successfully completing the course  
**Effective Engineering Teaching In Practice**

with a consolidated score of **76** %

Online Assignments	24.33/25	Proctored Exam	51.89/75
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Total number of candidates certified in this course: **526**

Prof. Devendra Jalihal  
 Director,  
 Centre for Outreach and Digital Education, IITM

Jan-Feb 2024  
 (4 week course)

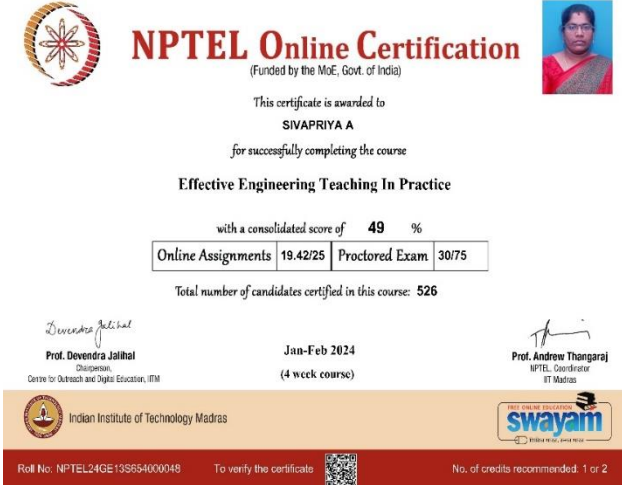
Prof. Andrew Thangaraj  
 NPTEL, Coordinator  
 IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL24GE13S654000068 To verify the certificate

No. of credits recommended: 1 or 2



**NPTEL Online Certification**  
 (Funded by the MoE, Govt. of India)

This certificate is awarded to  
**SIVAPRIYA A**  
 for successfully completing the course  
**Effective Engineering Teaching In Practice**

with a consolidated score of **49** %

Online Assignments	19.42/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **526**

Prof. Devendra Jalihal  
 Director,  
 Centre for Outreach and Digital Education, IITM

Jan-Feb 2024  
 (4 week course)

Prof. Andrew Thangaraj  
 NPTEL, Coordinator  
 IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL24GE13S654000049 To verify the certificate

No. of credits recommended: 1 or 2

## STUDENT ACHIEVEMENTS

Two students have won 1<sup>st</sup> prize in Minecraft



Global Investor Meet 2024 – Student delegate selected by Naan Mudhavan Scheme

