



JPCOE Chronicle

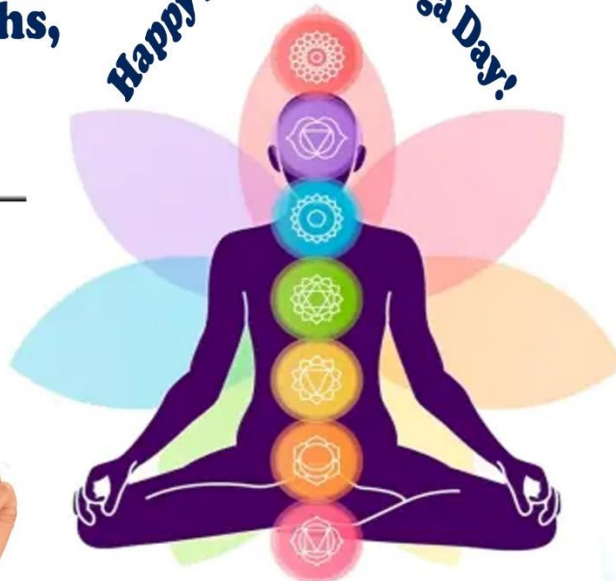
"Reach for the Stars"

Newsletter

June' 23

**Wishing you a day filled
with mindful breaths,
graceful asanas,
and inner peace.**

Happy International Yoga Day!



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14 June 2023



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HAPPY
**Father's
Day**



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Mr. Rajvel Nagarajan, AP/EEE

Mr. G. Vinoth Rajkumar, AP/ECE

HOLY FATHER'S MESSAGE



Dear Brothers and Sisters,

“Let this be my greeting at the beginning of the New Year: “Peace is to this house!” In sending his disciples forth on mission, Jesus told them: “Whatever house you enter, first say, ‘Peace is to this house!’ And if a son of peace is there, your peace shall rest upon him; but if not, it shall return to you” (Lk 10:5-6).

Bringing peace is central to the mission of Christ’s disciples. That peace is offered to all those men and women who long for peace amid the tragedies and violence that mark human history. The “house” of which Jesus speaks is every family, community, country and continent, in all their diversity and history. It is first and foremost each individual person, without distinction or discrimination. But it is also our “common home”: the world in which God has placed us and which we are called to care for and cultivate “.

+POPE FRANCIS

JUNE 2023 - REPORT

First Year Students Archana, Ranjani and Rithika were designed a project to detect Railway Accidents. The project content was published on 04.06.2023 in the Dinakaran Daily Newspaper and Rs. 5000 Cash Prize was also announced for the students.



JP COLLEGE OF ENGINEERING

AYIKUDI, TENKASI - 627 852.
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ஜெப் பொறியியல் கல்லூரியின் நிர்வாகம், ஆசிரியர்கள் மற்றும் மாணவர்கள்

வாழ்த்துகிறோம்



முதலாம் ஆண்டு பயிலும் மாணவிகள் அர்ச்சனா, கவி ரஞ்சனி மற்றும் ரித்திகா ஆகியோர் ரயில் நிலையங்களில் ஏற்படும் விபத்துகளை தடுக்க புதிய ஒரு வடிவமைப்பை கண்டுபிடித்து உள்ளனர்.

தினகரன் நாளிதழ் 04.06.2023 தமிழ்நாடு முழுவதும் வெளிவரும் அனைத்து பதிப்புகளிலும் இதை பற்றி செய்தி வெளியிட்டதுடன், மாணவிகளுக்கு ₹5,000/- பரிசு தொகையையும் அறிவித்துள்ளது.

Class Committee Meeting was conducted to first year ECE, CSE and IT Students on 08.06.2023. Syllabus Completion and Academic requirements were discussed in the meeting.



Tenkasi, Tamil Nadu, India
Block 1, Tamil Nadu 627852, India
Lat 8.992062°
Long 77.33298°
08/06/23 01:10 PM GMT +05:30



Rev.Sr.Jude Lisa,DMI has joined as a teaching staff in the department of Electrical and Electronics Engineering on 14.06.2023.

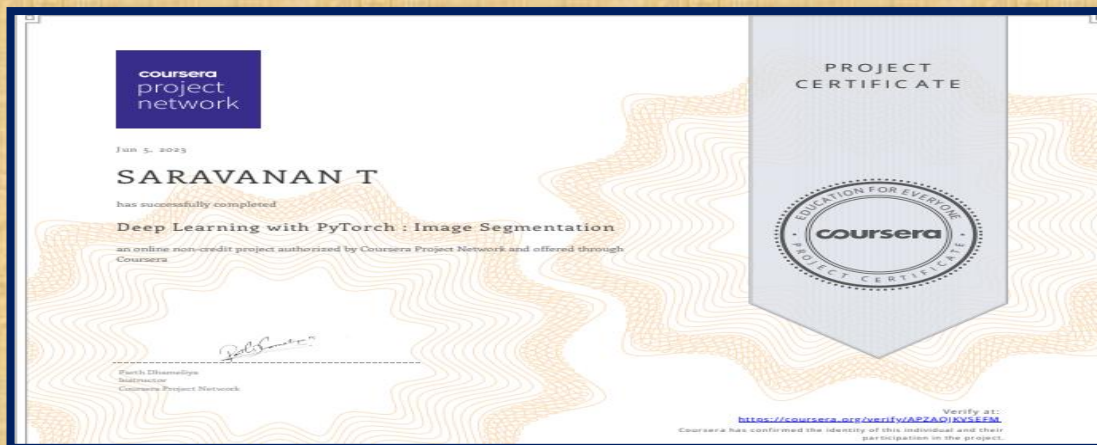


Mr. T. Saravanan, AP/CSE, has Successfully completed “Seva Sushasan aur Garib Kalyan Mahaquiz 2023” and Yoga Quiz Competition organized by Ministry of Ayush.

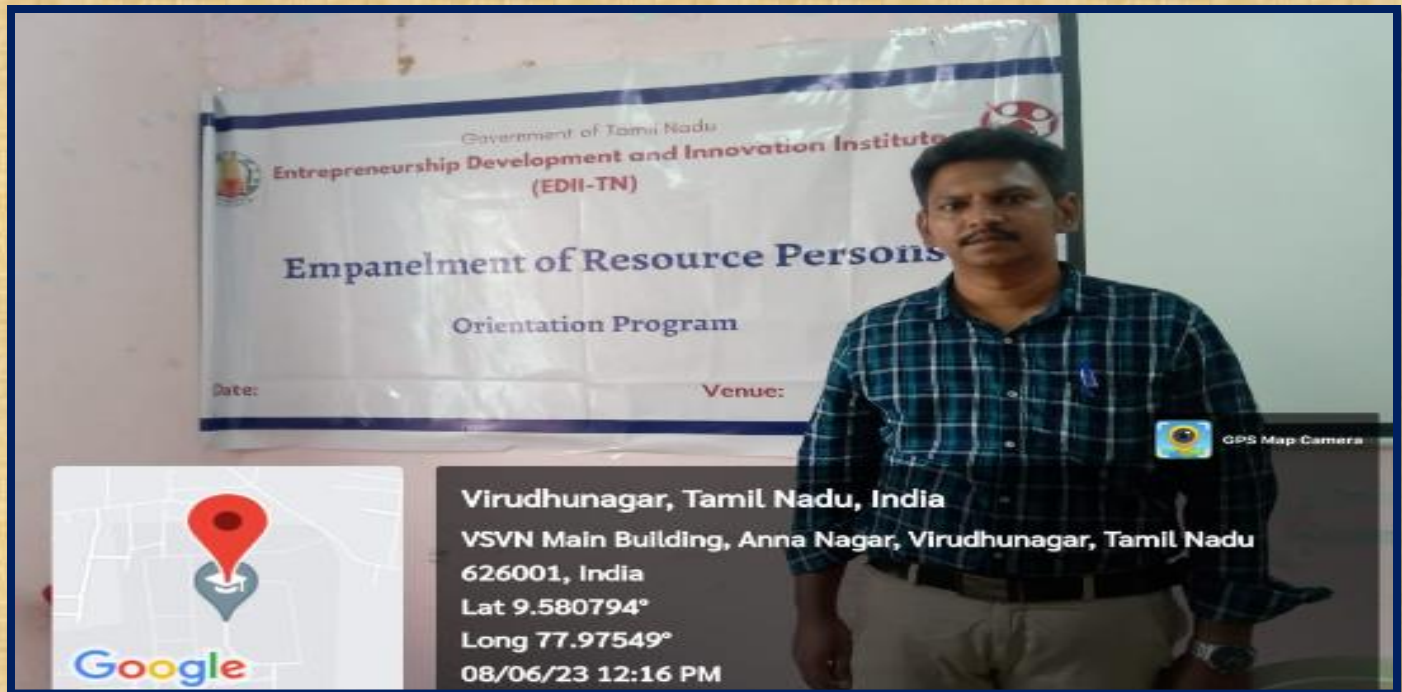




Mr.T. Saravanan, AP/CSE has Completed a course in “Build a Website using Word Press” and “Deep Learning with Pytorch:Image Segmentation offered by Coursera.



Mr. Ayyappan, EDC Coordinator attended EDII-TN Orientation Program at S.Vellachamy Nadar Polytechnique college, Virudhunagar on 08.06.23.



Dr. Arumuganainar K, AP/MECH has participated in the online quiz competition organized by the Institution Innovation Council in connection with World Environment Day.



Dr.K.Arumuganainar (AP/Mech.) & Mr.C.Rajasekaran (AP/Mech.) jointly Published a paper entitled "Develop a Revit-Enabled Integrated tool for the Inspection and Condition Assessment of Building Components" in the INTERNATIONAL JOURNAL OF ADVANCERESEARCH AND INNOVATIVE IDEAS IN EDUCATION-ISSN(O) : 2395-4396, Vol.9,Issue.3 Page 3342-3350.



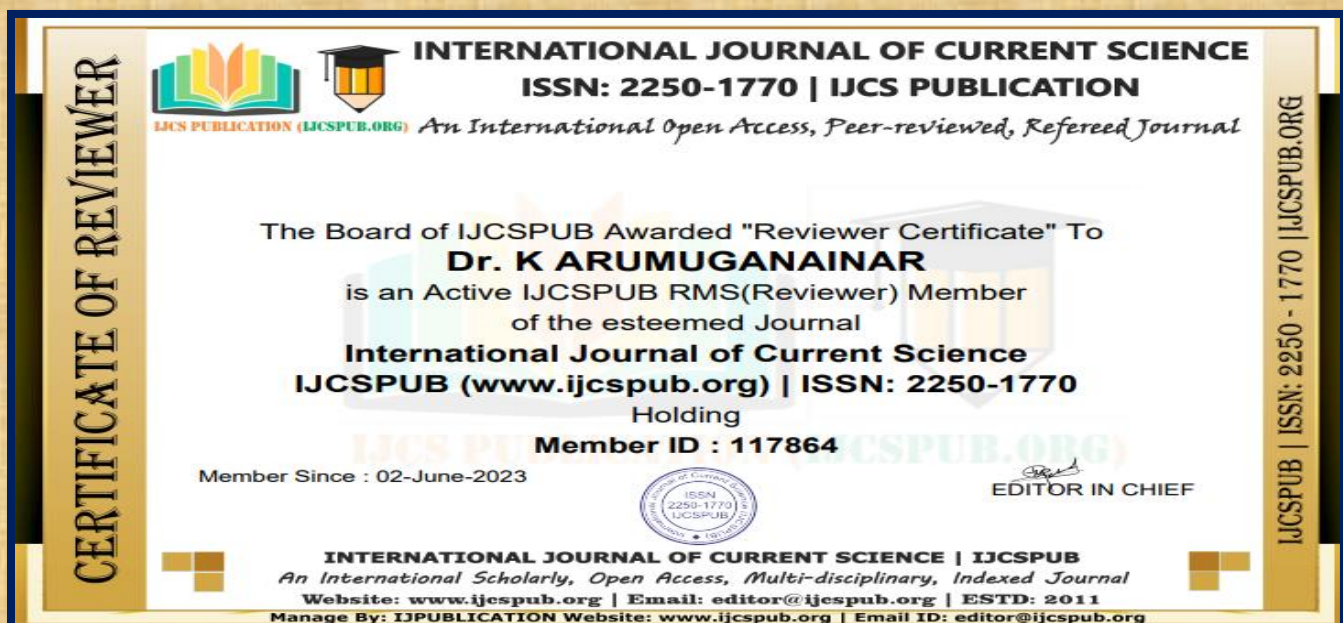
Dr.E.A. Mohamed Ali, Associate Professor, ECE received a congratulation message from NPTEL Coordinator for the achievement of NPTEL Star.



Dr. E. A. Mohamed Ali, Associate Professor, ECE has presented his research topic "Miniaturized CPW fed Antenna with Split Resonator with ISM/2.4GHz and 5GHz WiFi WLAN Applications" in the 2nd International Conference on Management, Engineering, Science and Humanities (MESH-2023) jointly organized by Builders Engineering College, Kangeyam Institute of Commerce, EBET Knowledge Park, Nathakadaiyur, Kangeyam Taluk, Tirupur, Tamil Nadu with the collaboration of Conference World on 3.5.2023.



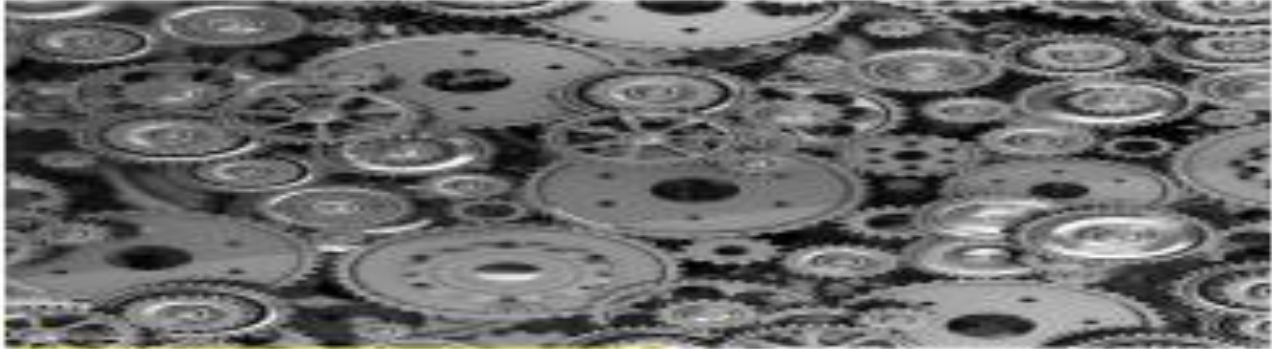
Dr.K.Arumuganaiyanar,AP/MECH, has awarded as a Reviewer of International Journal of Current Science.




Dr.K.Arumuganainar, AP/MECH is an editor of IIP Edited Book Series Iterative International Publishers (IIP) Karnataka with Unique Editor Id “IIPER1675501811” for the edited book series titled “ Futuristic Trends in Mechanical Engineering ” with Series Code IIPV3EBS01_G11.

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Iterative International Publishers

Dr. M. Rajkumar, Principal/JPCOE has published a Paper titled “Design and Control of Modified Super Lift Luo Converter for Electric Vehicle Applications” as a joint supervisor in the Annexure 1 journal - Taylor & Francis. The paper was published in the online on 17th April 2023

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Design and Control of Modified Super Lift Luo Converter for Electric Vehicle Applications

S. Naamini Saluja,¹ S. Dharmalakshmi,² and M. Rajkumar³

¹Department of Electrical and Electronics Engineering, Shreevidya Engineering College, Tumkur, Karnataka, India
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³Department of Electrical and Electronics Engineering, IIP College of Engineering, Tumkur, Karnataka, India

CONTENTS

1. Introduction
2. Related Works
3. Proposed System
4. Simulation Results
5. Performance Analysis
6. Conclusion

References

Abstract—Aim of the presented and developing research focused on the renewable energy source, conversion into electric energy source to compare with the expense of conventional systems. The quality of the energy should be high because it will be used in every small part of the world. The most applicable, renewable source of energy is solar, which can be getting directly from the sun. In solar photovoltaic array, the power from the solar array is inverter, as base in a boost DC-DC converter to generate the regulated output voltage. This generated with converter's Modified Super Lift Luo Converter (MSLLC) with high energy conversion. This inverter is used efficient than existing conversion and it can also boost up the voltage up to 3.17 times the input voltage. The proposed MSLLC converter can obtain better efficiency at 95.94% at 100W/100V condition.

1. INTRODUCTION

In the modern digital world, global warming occurs due to the excessive emission in the form, removal of trees, human activities in agriculture and industrial zones, and emission of greenhouse gases like CO₂, O₂, CH₄, N₂O, etc. Among them, more than 85% of CO₂ emissions occur in the transportation field. To mitigate this environmental issue, the utilization of EVs in the transportation field is increased gradually due to their performance in terms of their advancement in charging stations, low fuel cost, and low CO₂ emission. The further improvement in environmental safety, renewable energy sources are required for various applications, the usage of internal combustion engine vehicles (ICEV) is reduced and these are replaced by EVs. The utilization of EV's saves approximately \$6,500,000 per year and reduced CO₂ emission to 50 g/km when compared with vehicles using petrol as a fuel.

The battery in the EVs is charged by the photovoltaic (PV) charging method which requires solar panels to charge the battery leading to a reduction in the ecological

Keywords: modified super lift Luo converter, energy conversion, voltage gain, MSLLC converter

Received 07 November 2022; accepted 10 March 2023
 Address correspondence to S. Naamini Saluja, Department of Electrical and Electronics Engineering, Shreevidya Engineering College, Tumkur, 577309, Karnataka, India. Email: naamini@shreevidya.org

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Dr. K. Arumuganainar , Mr. R. Karthikeyan and Mr S. Samy (AP/MECH) jointly Published a Review paper entitled “Exergy Analysis of a Refrigeration system-A Review” in the Journal of Emerging Technologies and Innovative Research (UGC Approved -No. 63975) in the month of June-2023.

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**JOURNAL OF EMERGING TECHNOLOGIES AND
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An International Scholarly Open Access, Peer-reviewed, Refereed Journal

Exergy Analysis of a Refrigeration System – A Review

¹K. Arumuganainar, ²R.Karthikeyan, ³S.Samy,
⁴N. Sivakumar

^{1,2,3}Assistant Professor, ⁴Professor

^{1,2,3,4}Department of Mechanical Engineering

^{1,2,3}JP College of Engineering, ⁴AMC Engineering College

^{1,2,3}Tenkasi, Tamil Nadu, India, ⁴Bengaluru, Karnataka, India.

Mr. Ayyappan, ECE Received an Award of Honour from Research & Development of Tamilnadu Congress Committee for creating an Artificial Intelligence Educational awareness Programme to Rural Government students on 8.6.2023



Rev.Sr.B.Hamlet,Administrator/JPCOE has received an appreciation certificate from the Tenkasi District Collector on 14.6.2023 for encouraging more number of blood donors from JP Group of Institution students.



Dr.K.Arumuga Nainar, AP/Mech has attended a FDP on Alternate Fuels Research organized by the Department of Mechanical Engineering, Aarupadai Veedu Institute of Tech, Chennai from 29.5.2023 to 2.6.2023



Dr.E.A. Mohamed Ali, ASP/ECE has successfully completed the NPTEL course “The joy of computing using Python”



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

MOHAMED ALI E A

for successfully completing the course

The Joy of Computing using Python

with a consolidated score of **78 %**

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jan-Apr 2023)

Roll No: NPTEL23CS20S34791102

Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

First year students visited Kodaikanal as an educational tour on 16.6.2023



Club activities conducted for I year EEE on colour coding of resistor contest on 20.6.2023 in the EEE Seminar hall



International Yoga day was celebrated on 21.6.2023 for all the students and staff





GPS Map Camera



Google

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14 days Survey camp for III Year CIVIL Students at Courtallam begins from 21.6.2023



GPS Map Camera



Tenkasi, TN, India
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Lat 8.915186, Long 77.305733
06/21/2023 10:56 AM GMT+05:30
Note : Captured by GPS Map Camera

Dr.Arun Srinivas, AP/EEE has explained the DST SC project which is erected in the campus to the staff members and I year EEE Students on 22.6.2023



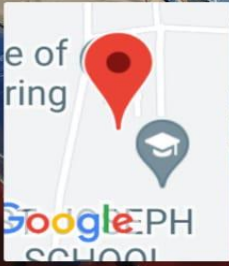
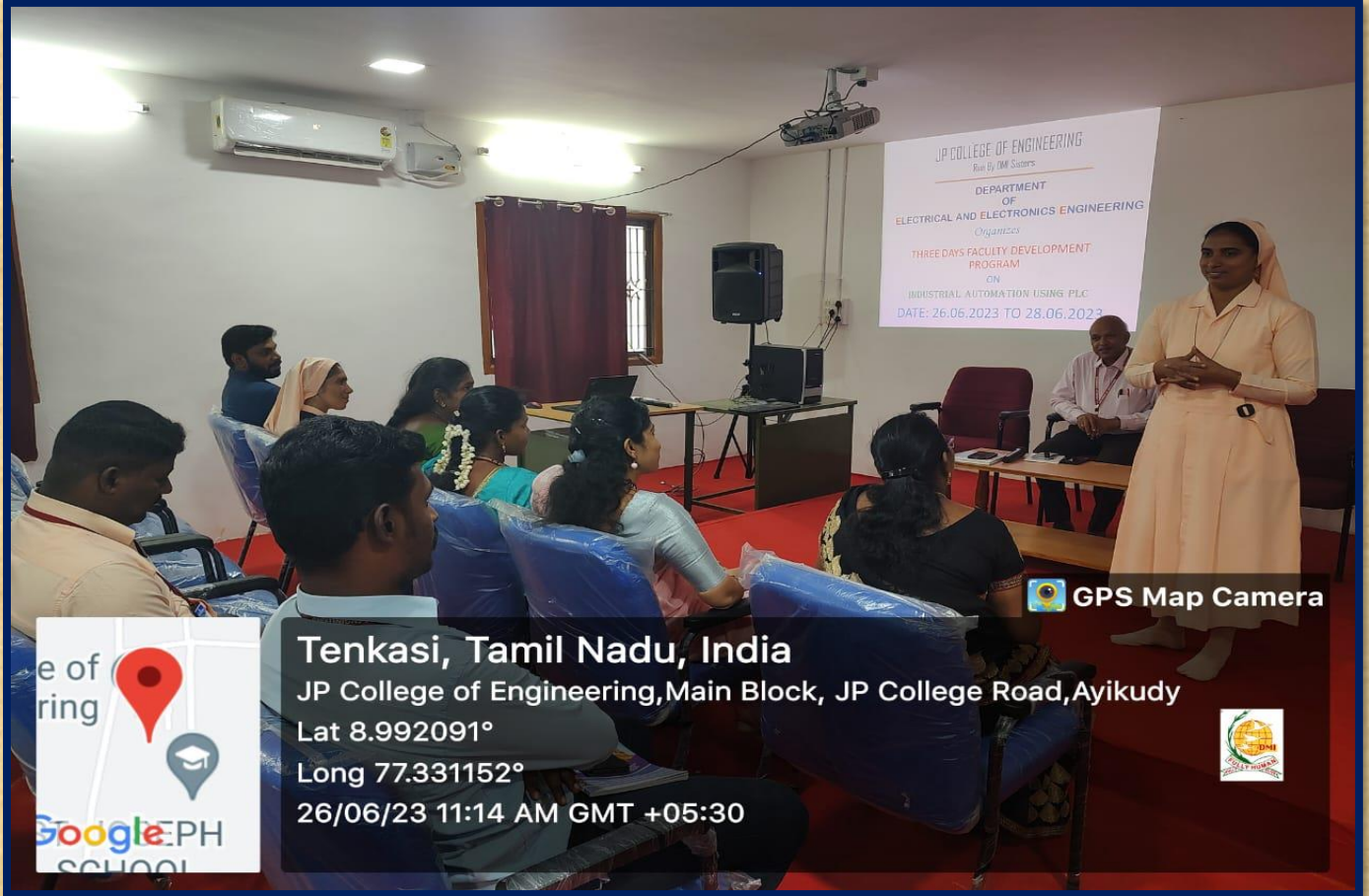
JPCOE NSS organized a “Say no to drugs” awareness rally in the Tenkasi district on 24.6.2023



3 days FDP on “Hands on training for Machine Learning & Soft Computing Algorithms” from 26.6.2023 to 28.6.2023 in the Computer lab organized by the department of CSE. The resource persons for the FDP was Dr. M. Caroline Viola Stella Mary, Prof./IT, FX Engg. College, Dr.T.Prathiba, AP/ECE and Dr.S. Nisha Rani, AP/ECE Kamaraj College of Engineering & Technology and Dr.E.A. Mohamed Ali, ASP/ECE, JPCOE.



3 days FDP on Industrial Automation PLC started from 26.6.2023 in the EEE Seminar hall organized by the department of EEE. The resource person was Mr. Subash, PLC Trainer, Innova skill Technologies, Bangalore.



Tenkasi, Tamil Nadu, India
 JP College of Engineering, Main Block, JP College Road, Ayikudy
 Lat 8.992091°
 Long 77.331152°
 26/06/23 11:14 AM GMT +05:30



2023	ஜூன்	06	JUNE	சோபகிருது வருடம் வைகாசி-ஆனி
SUNDAY ஞாயிறு	21	4	11	18
MONDAY திங்கள்	22	5	12	19
TUESDAY செவ்வாய்	23	6	13	20
WEDNESDAY புதன்	24	7	14	21
THURSDAY வியாழன்	25	8	15	22
FRIDAY வெள்ளி	26	9	16	23
SATURDAY சனி	27	10	17	24
	28	11	18	25
	29	12	19	26
	30	13	20	27
	31	14	21	28
	1	15	22	29
	2	16	23	30
	3	17	24	31



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