



# THIAGARAJAR POLYTECHNIC COLLEGE

Alagappanagar, Thrissur 680302

[APPROVED BY ALL INDIA COUNCIL FOR TECHNICAL EDUCATION]

(UNDER STATE BOARD OF TECHNICAL EDUCATION KERALA & DIRECTOR OF TECHNICAL EDUCATION KERALA) PH: 0480 2751346

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## VISION

To produce competent professionals by imparting high quality education and training in Engineering and Technology to meet the industrial requirements in global standard and according to societal demands.

## MISSION

- 1.To provide quality education through state-of-the-art infrastructure and competent teaching faculty.
- 2.To produce technically competent professionals with moral and ethical values.
- 3.To participate in the development in accordance with societal demands through entrepreneurship, industry interaction and excellent communication.

## CHAIRMAN'S MESSAGE

I am delighted to know that Voice of TPC, the newsletter of Thiagarajar Polytechnic College, is being published. Such initiatives provide a valuable platform to showcase the academic activities, achievements, and creative talents of our students and faculty members.

Our institution is committed to imparting quality technical education along with discipline, values, and social responsibility. We aim to prepare young minds not only for employment but also for lifelong learning and responsible citizenship. I am happy to see the collective efforts of the staff and students in maintaining a vibrant academic atmosphere in the campus.

I congratulate the editorial team for their sincere work and extend my best wishes to all students for their future endeavours.

## PRINCIPAL'S DESK

Dear Students, Staff Members, Alumni and Well-wishers,

It gives me immense pleasure to present the fifth edition of "Voice of TPC", the official newsletter of Thiagarajar Polytechnic College, Alagappanagar. A newsletter is not merely a collection of events; it is the reflection of our institution's academic spirit, values and collective efforts.

At TPC, we strongly believe that technical education is not limited to classrooms and laboratories. It is a continuous process of learning, innovation, discipline and character building. Every workshop, industrial visit, project work, mentoring session and student activity contributes to shaping a competent technician and a responsible citizen. I am happy to note that our students have actively participated in academic, co-curricular, and social initiatives, bringing laurels to the institution.

Our dedicated faculty members remain the backbone of this progress. Their commitment ensures that our students are not only industry-ready but also ethically grounded. Along with academics, we give equal importance to value education, environmental responsibility, anti-narcotics awareness, and social commitment so that our students grow as individuals with strong human values.

I appreciate the editorial team and students who have worked sincerely to bring out this publication. Let Voice of TPC continue to inspire creativity, innovation, and a sense of belonging among all members of the TPC family.

I extend my best wishes to all our students for a bright and successful future.



**VOICE OF TPC**

2025 JUNE - 2025 NOVEMBER



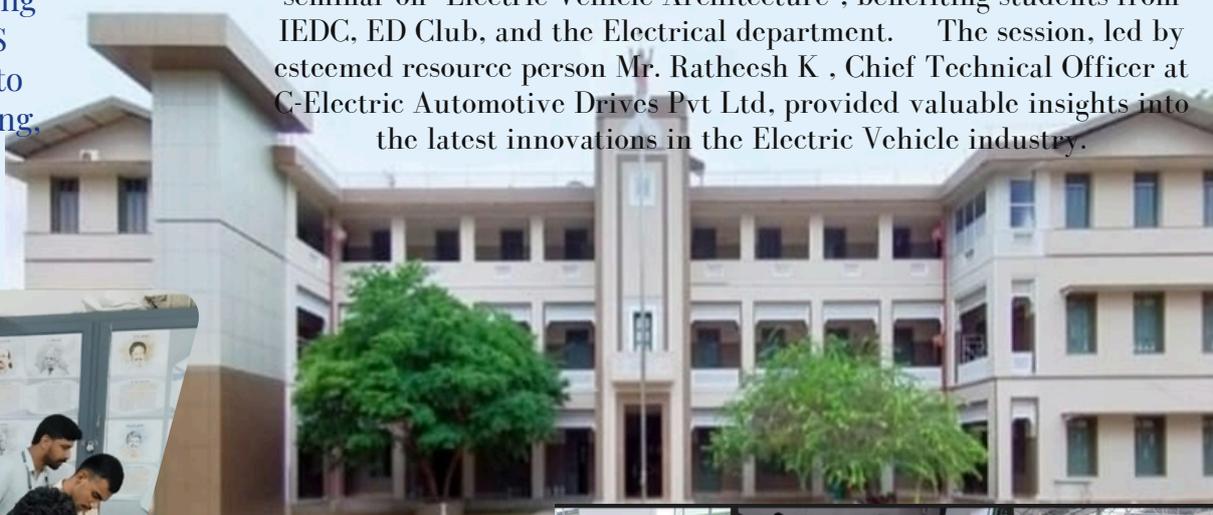
**INNOVATION AND  
ENTREPRENEURSHIP  
DEVELOPMENT CENTRE**



# "ELECTRIC VEHICLE ARCHITECTURE"

On July 11<sup>th</sup>, 2025, IEDC-TPC successfully hosted an online seminar on "Electric Vehicle Architecture", benefiting students from IEDC, ED Club, and the Electrical department. The session, led by esteemed resource person Mr. Ratheesh K, Chief Technical Officer at C-Electric Automotive Drives Pvt Ltd, provided valuable insights into the latest innovations in the Electric Vehicle industry.

IEDC-TPC conducted a hands-on LED bulb making workshop at Deepthi HSS Thalore on July 5<sup>th</sup>, 2025, to promote scientific thinking, innovation, and provide hands-on experience to school students.



**Golden Circuits**



**UPCOMING NATIONAL  
SPACE DAY**  
August 2025



**QUIZ Competition**



On July 21<sup>st</sup>, 2025, IEDC-TPC conducted a hands-on workshop on tubelight making for IEDC and ED Club students. The aim was to create technical knowledge among the students.

As part of the upcoming National Space Day (NSpD 2025) celebrations, the NSS Unit 155 of Thiagarajar Polytechnic College, Alagappanagar, organized a competitive Quiz Competition for the students. The event aimed to enhance students' knowledge about space science, India's achievements in space exploration, and the significance of National Space Day.





# ENVIRONMENT DAY CELEBRATION

On June 5<sup>th</sup>, Thiagarajar Polytechnic College celebrated World Environment Day with enthusiasm, focusing on sustainability and ecological awareness. The event is organized by the NSS unit and Bhumithra Sena, featuring a tree plantation drive and an environmental pledge. Our college principal, Shri Lijo John, inaugurated the function by planting a sapling in the college campus, and also students and volunteers planted saplings in the campus garden to increase green cover.



## POWER QUIZ 2025

Under the leadership of KSEB officers' association, a Power Quiz 2025 pre-preliminary competition was conducted in our college for 1<sup>st</sup> semester students. Joshua Shaju, first semester electrical student, won the first prize, and Bhagath Babu T, first semester mechanical student, won the second prize.



## EMPOWERING

### EDUCATORS IN AUTOCAD

On 1<sup>st</sup> November 2025, ISTE conducted a one-day AutoCAD workshop for staff. Mr. Prashob M A (Lecturer in Mechanical Department), Fr. Jaison Chacko C (Demonstrator), Mechanical Department, and Mr. Shaju PL (Trade Instructor, Civil Department) were the resource persons for the program.



One day workshop for staff, organised by ISTE Chapter

AutoCAD





**WORKSHOP ON  
"NON-DESTRUCTIVE  
TESTING  
TECHNIQUES"**

**ASWIN ALEX BABU**  
OPERATION MANAGER  
(IIT NDT PVT.LTD)



The Department of Mechanical Engineering, in association with the Placement Cell of TPC, Alagappanagar, successfully conducted a workshop on 'Non-Destructive Testing Techniques' on September 19, 2025, at the Seminar Hall. The workshop provided technical knowledge and hands-on experience to the students.



On 20<sup>th</sup> September the final year Civil Engineering students visited Pudukkad Railway Station as part of their syllabus to study various railway components. Students gained knowledge on railway track, fixtures, fasteners, points & crossings etc. The site visit was accompanied by staff members Jaison N L, Teena Johnson, Anu Antony, and Shaju P L.



On October 15, 2025, a team of Mechanical Engineering faculty and students visited the residence of Mr. Solomon (old student, 1975 ME batch). His ingenious idea, an innovative machine, simplifies the process of attaching firecrackers (padakam) to strings, reducing manual labor. This invention inspired students to think creatively and develop their skills. Congratulations to Mr. Solomon.



The alumni members of Thiagarajar Polytechnic College extend their congratulations to Mr. James from the 1974 Electrical Engineering batch, for achieving his PhD.



The renovation work on the auditorium, which is being restored with contributions from alumni, was completed to this extent by the end of November 2025. We express our gratitude and affection to all alumni members who cooperated in this effort. Further funding is still required for the completion of the proposed auditorium. We hope to complete the remaining work as funds become available.

## editorial

- Sri. Lijo John
- Smt. Sneha C Antony
- Sri. Lintosh John T
- Sri. Ben Austin B Alapatt
- Sri. Vibin CV
- Smt. Ragiya Jose
- Smt. Jasmin Davis A
- Sri. Sijoy KJ
- Sri. Royson Varghese
- Sri. Christy AR

## design

- Sri. Binoykumar PM



# "VINJNANA KERALAM"

Thiagarajar Polytechnic College, under the auspices of NSS 155 unit, launched a campaign called Vijanya Keralam in connection with the World Youth Skills Day on July 15. With the aim of bringing all the youth of the state into the employment sector, the registration camp for the Global Skill Summit to be held on August 29 and 30 under the auspices of the government has started. NSS Program Officer Shri. Vibin CV, Mrs. Ragiya Jose and Miss. Anagha Dasan spoke

As part of Friendship Day celebrations, "A Sapling for a Friend" campaign was organized under the auspices of NSS Unit 155 and Bhoomithrasena Club of Thiagarajar Polytechnic College.

With the aim of keeping the spirit of friendship alive in the hearts of students, and as part of the Haritha Kerala Mission being implemented in campuses, students brought saplings from their homes and exchanged them with one another.

Each student then took the sapling they received to their homes as a token of friendship. College Principal Mr. Lijo John, Haritha Kerala Mission Resource Person (Kodakara Block) Mr. Serin Sunny, Mr. Sebi N.P, Mr. Sinto C.J, NSS Programme Officer Mr. Vibin C.V, Mrs. Ragiya Jose, along with college staff and NSS volunteers, led the programme.



The seminar aimed to create awareness among students about the harmful effects of drugs and substance abuse and to promote a healthy and responsible lifestyle.

## ANTI-DRUG AWARENESS SEMINAR

## "A SAPLING FOR A FRIEND" CAMPAIGN

## NATIONAL SPACE DAY QUIZ COMPETITION

The occasion of National Space Day – 2025. The program was conducted on 12<sup>th</sup> August 2025 with the active participation of a large number of students.

The main objective of the competition was to create awareness among students about space science, exploration, and technological advancements, while also encouraging curiosity and scientific temperament. The quiz covered various topics including the history of space research, recent achievements of ISRO, international space missions, and future possibilities in space exploration.

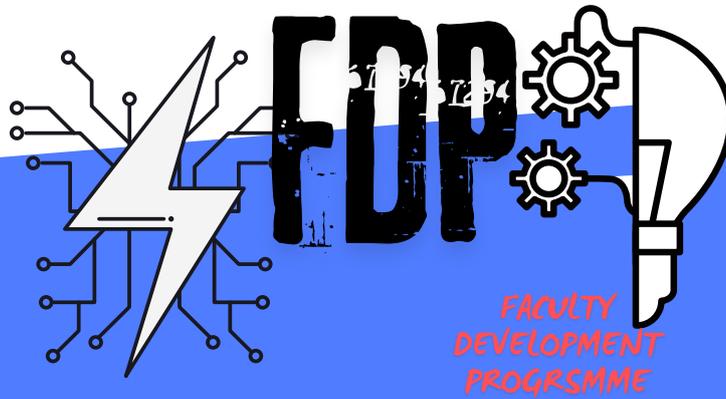


## HIV & AIDS Awareness Campaign

# YUVA JAGARAN

As part of a public health initiative and social responsibility, the NSS Unit 155 of Thiagarajar Polytechnic College, Alagappanagar, organized a comprehensive HIV & AIDS awareness campaign titled "YUVA JAGARAN". The event was held on 27<sup>th</sup> September at 3:00 PM in the College Hall. The program aimed to educate students and the public about HIV/AIDS prevention and to reduce the social stigma associated with the condition





## FDP on EV Technology and BMS

The Department of Electrical and Electronics Engineering at Thiagarajar Polytechnic College recently concluded a high-impact, five-day Faculty Development Programme (FDP) titled “EV Technology, BMS and Charging Protocols.” Held from August 25<sup>th</sup> to 29<sup>th</sup>, 2025, the program was conducted in a hybrid mode in association with NIELIT Calicut and the State Institute of Technical Teachers Training & Research (SITTTR), Kalamassery. The primary mission of the FDP was to bridge the gap between traditional electrical engineering and the rapidly evolving Electric Vehicle (EV) sector. Faculty members were immersed in a curriculum designed to equip them with the tools necessary to mentor the next generation of engineers and researchers. Key objectives of the program includes

In-depth understanding of EV fundamentals and torque calculations for 2W, 3W, and 4W vehicles, Mastery of Battery Management Systems (BMS) and protection circuitry, Hands-on simulation training using MATLAB/Simulink and Exploration of charging technologies and OCPP (Open Charge Point Protocol). The schedule offered a balanced mix of theoretical insights and practical simulation.

The program concluded with a prestigious Valedictory Session attended by eminent dignitaries. Sri. Lijo John (Principal) delivered the Presidential Address, while Smt. Cinimole K G (Joint Director, SITTTR) provided the Valedictory Address. The session was coordinated by Sri. Sijoy K J and supported by Sri. Sebi N P (HOD, EEE) and other department heads

Participants reported high levels of satisfaction, particularly praising the hands-on MATLAB training and the exposure to industry-standard charging protocols. By the end of the program, faculty members emerged with the proficiency to design lab experiments and undertake advanced research in electric mobility. Through such collaborative efforts, Thiagarajar Polytechnic College continues to lead the way in technical excellence, ensuring its faculty remains at the forefront of the green energy revolution.



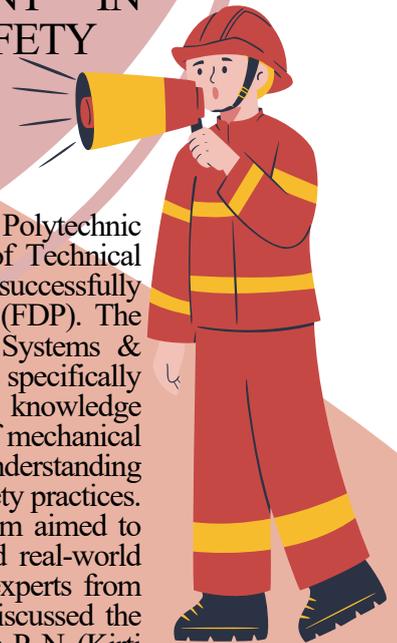


FDP



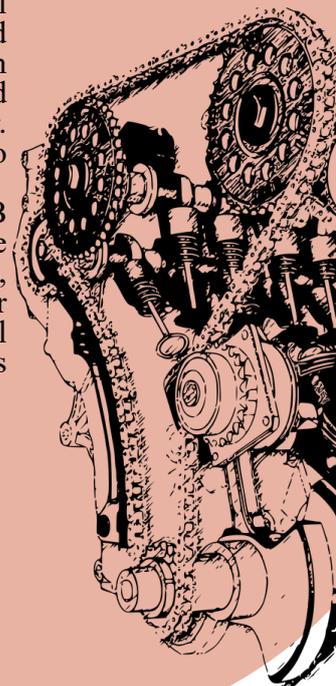
FACULTY DEVELOPMENT PROGRAMME

## FDP ON FACULTY EMPOWERMENT IN QUALITY, INDUSTRIAL SYSTEMS & SAFETY



The Department of Mechanical Engineering at Thiagarajar Polytechnic College, Alagappanagar, in association with the State Institute of Technical Teachers Training & Research (SITTTR), Kalamassery, successfully organized a three-day online Faculty Development Programme (FDP). The program, titled "Faculty Empowerment in Quality, Industrial Systems & Safety," was held from July 28<sup>th</sup> to July 30<sup>th</sup>, 2025. The FDP was specifically designed to provide a platform for academic enrichment and knowledge exchange among faculty members and professionals in the field of mechanical engineering. The curriculum focused on deepening participants' understanding of core areas such as quality assurance, industrial systems, and safety practices. By bridging the gap between academia and industry, the program aimed to provide insights into the latest trends, research perspectives, and real-world applications. The sessions were led by a distinguished panel of experts from both industry and academia. Dr. Ramadas T (AISAT, Kochi) discussed the overview of Lean Six Sigma with Industry 4.0. Dr. Ramkumar P N (Kirti Papers Pvt. Ltd.) shared insights on operational excellence in practice for scalable impact in manufacturing SMEs. Dr. Sajan M C (Rajiv Gandhi Institute of Technology) spoke on process improvement for organizational performance. Dr. Eldose K K (Adi Shankara Institute of Engineering and Technology) covered inventory control and scheduling approaches in operations management. Mr. Abdars M S (KAU Kelappaji College) addressed fire safety and the role of fire safety awareness in educational institutions. Dr. Joby George (Amal Jyothi College of Engineering) provided an introduction to supply chain management.

The program was coordinated by Dr. Silan Tharakan S and Mr. Ben Austin B Alapatt, both lecturers in the Mechanical Engineering department. The organizing committee included Mr. Cinto C J (HoD, Mechanical Department), Mr. Cinto P A, and Mr. Prashob M A. This initiative reflects Thiagarajar Polytechnic College's ongoing commitment to excellence in technical education and the continuous professional development of faculty members and technical staff.





# Recent Advancements in Geotechnical Engineering



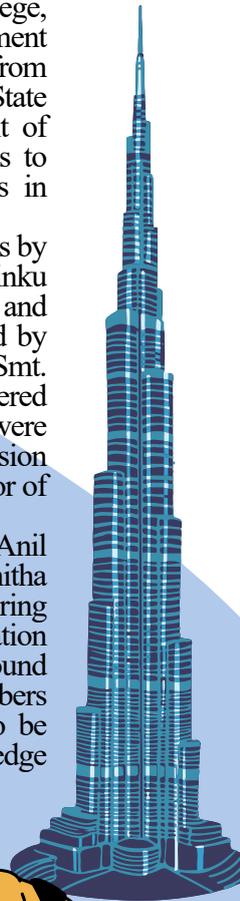
# FDP

FACULTY  
DEVELOPMENT  
PROGRAMME

The Department of Civil Engineering of Thiagarajar Polytechnic College, Alagappanagar, successfully organized a three-day online Faculty Development Programme (FDP) on “Recent Advancements in Geotechnical Engineering” from 9th to 11<sup>th</sup> July 2025. The programme was conducted in association with the State Institute of Technical Teachers Training & Research, under the Department of Technical Education, Government of Kerala. The objective of the FDP was to update faculty members with recent developments and innovative practices in geotechnical engineering.

The inaugural session commenced with a prayer, followed by a welcome address by Smt. Cino Francis, Head of the Department of Civil Engineering. Dr. Rinku Varghese, Coordinator of the FDP, presented the programme overview and highlighted the objectives of the event. The presidential address was delivered by Sri. Lijo John, Principal of the institution. The inaugural address was given by Smt. Ani Abraham, Director of Technical Education. The keynote address was delivered by Smt. Cinimole K G, Joint Director, SITTR, Kalamassery. Felicitations were extended by Smt. Deepa K R, Sri Cinto C J and Sri. Sebi N P. The session concluded with a vote of thanks proposed by Ms. Teena Johnson, Co-coordinator of the FDP.

The technical sessions were handled by distinguished experts including Dr. Anil Joseph, Dr. Pijush Samui, Dr. S. Chandrakaran, Dr. Jeevan Joseph, and Dr. Smitha Sivadasan. They delivered insightful lectures on topics such as engineering resilience, artificial intelligence applications in civil engineering, pile foundation design and practice, soil remediation techniques, and sustainable ground improvement. The FDP witnessed enthusiastic participation from faculty members and researchers from various institutions. Overall, the programme proved to be highly informative and beneficial, enriching the participants with current knowledge and practical insights in geotechnical engineering.



In connection with World Heart Day

(officially observed on September 29<sup>th</sup>), the NSS Unit 155 of Thiagarajar Polytechnic College, Alagappanagar, organized a special event titled "Heart Day Display". The program was held on September 26<sup>th</sup> Friday, at 3:30 PM in front of the college main building.

**HEART DAY DISPLAY**



Pudukad Taluk Hospital  
Hospital  
**CLEANLINESS DRIVE**

**15/08/2025**

**09:30am**



As part of the Independence Day celebrations, the NSS Unit 155 of Thiagarajar Polytechnic College, Alagappanagar, organized a massive Cleanliness Drive at the Pudukad Taluk Hospital on August 15<sup>th</sup>, 2025. The initiative aimed to promote the message of hygiene and community service among students and the general public.



The Enrollment Day program by NSS unit was successfully conducted at Thiagarajar Polytechnic College with the participation of newly admitted students, faculty, and NSS volunteers. The event was organized with the objective of welcoming freshers, familiarizing them with the institution NSS unit, and instilling in them a sense of responsibility towards academics and society.

The program began with the NSS Song, which inspired the gathering with its message of service and unity. Following this, the students were warmly welcomed by the NSS Program Officer Mr Vibin C V, creating an atmosphere of inclusiveness and belonging.

A highlight of the day was the Orientation Class led by Mr. M. P. Varghese, Retired Demonstrator and Former Program Officer who guided the new students about the importance of discipline, commitment, and active participation in both academic and extracurricular activities. His session emphasized personal development, teamwork, and the value of contributing positively to society. As part of the day's activities, a Paper Bag Production Workshop was conducted by NSS volunteers. This practical session aimed to create awareness about reducing plastic use and promoting eco-friendly alternatives. Students actively took part in making paper bags, gaining both skills and insight into sustainable practices.

NSS Volunteer Mr. Haroun Freejo M Expressed vote of thanks to all the participants and staffs in behalf of the NSS unit. The Enrollment Day program served not only as an introduction to the institution but also as a platform to motivate students to engage in social and environmental initiatives. The combination of orientation, cultural expression through song, and hands-on training made the event both informative and memorable.

In conclusion, the event successfully met its objectives by welcoming the students into the institution's academic culture while inspiring them to uphold the values of service, sustainability, and personal growth

