



SANKAR POLYTECHNIC COLLEGE

A GOVERNMENT AIDED, AUTONOMOUS INSTITUTION

Approved by AICTE & Affiliated to DoTE, Chennai

SANKARNAGAR - 627357, Tirunelveli



Department of
Mechanical Engineering

MECHNIZON

2024-2025

A Technical Magazine

VOICES OF LEADERSHIP

Principal's Message:

With great pleasure, I announce the publication of the annual departmental magazine from Sankar Polytechnic College's Department of Mechanical Engineering. "Learning is a continuous process from the minute we are born, until we die." With the use of magazines, Sankar Polytechnic College gives each student a platform to improve his learning abilities. The significant milestones our College has reached this year will become clear to you as you scroll through the contents. Also, the creative expression of our emerging talents' ideas, thoughts, feelings, aspirations, and convictions has been demonstrated. his publication ought to be a useful resource for instructors and upcoming students looking for advice on what to do to further their careers. I give the Mechanical Engineering Department's head, both teaching and non-teaching staff, editorial board, and students credit for producing this version of the magazine, 2024–2025. Best wishes for you.

Administrative officer's Message:

Our society is reflected in the mirror of our educational system. The technological world of today is growing at the speed of thought and has created a plethora of excellent possibilities. The ability to create new ideas and see past the apparent is enhanced by perfection and quality in the educational sector, which is essential for success in the technological age we live in today. The institute's main goal is to develop energetic, youthful students into professionally trained technocrats who are prepared to take on societal concerns. Our goal was to increase personnel in order to advance the nation. I hope that every student has an extremely bright future and a successful, energetic existence.

HOD's Message

It gives me great pleasure to present this edition of our Mechanical Engineering Department magazine. It reflects the hard work, creativity, and practical skills of our diploma students and faculty. Throughout the year, our department has focused on hands-on learning, industry exposure, and skill development to prepare students for real-world challenges. This magazine captures their achievements, projects, and ideas. I congratulate the editorial team and all contributors for their efforts and wish everyone continued success in their future endeavors.

VISION AND MISSION

Vision Of the Institute

To deliver holistic technical education of high standards that creates competent technocratic leaders of the future, from diverse backgrounds, who will power India to greater heights, and to combine with a holistic approach for the development of character and skills of students.

Mission Of the Institute

To achieve and realize our Vision by

- ✓ Providing a conducive academic environment to our students that promotes creativity, nurtures hidden talents and develops self-confidence
- ✓ Maintaining high level of academic standards by keeping abreast of newer technologies and tools in both teaching and communication
- ✓ Providing quality education to impart basic engineering knowledge commensurate with a diploma level qualification
- ✓ Taking efforts to prepare students to be 'Industry-ready' at the time of leaving our college
- ✓ And to achieve the above without any compromise to our core values of Honesty, Sincerity, Dedication, Trust & Excellence

Department Vision:

To be a distinguished department that develops industry-ready mechanical engineers, successful entrepreneurs who embody the pride of nation through exceptional skills, quality and innovation.

Department Mission:

- ✓ To equip students with advanced technical skills and industry knowledge by improving the curriculum, collaborating with industries, and connecting with alumni.
- ✓ To foster entrepreneurship and innovation by encouraging interdisciplinary projects and hands-on problem-solving.
- ✓ To promote ethical practices and excellence to develop professionals who contribute to the Nation's progress and pride.

PO, PSO & PEO

Program Outcomes (POs)

- ✓ **PO1 - Basic and Discipline specific knowledge:** Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.
- ✓ **PO2 - Problem analysis:** Identify and analyse well-defined engineering problems using codified standard methods.
- ✓ **PO3 - Design/ development of solutions:** Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.
- ✓ **PO4 - Engineering Tools, Experimentation and Testing:** Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.
- ✓ **PO5 - Engineering practices for society, sustainability and environment:** Apply appropriate technology in context of society, sustainability, environment and ethical practices.
- ✓ **PO6 - Project Management:** Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.
- ✓ **PO7 - Life-long learning:** Ability to analyse individual needs and engage in updating in the context of technological changes.

PROGRAM SPECIFIC OUTCOME (PSOs)

- ✓ **PSO1:** Apply core mechanical engineering knowledge and advanced skills in design, analysis, simulation, and manufacturing to develop innovative, efficient and sustainable solutions for real-world challenges.
- ✓ **PSO2:** Cultivate an entrepreneurial mindset, uphold ethical standards, and leverage innovative skills to drive technological advancement and support the nation's growth.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- ✓ **PEO1:** Build a solid foundation in mechanical engineering principles and practical skills to effectively apply theoretical knowledge to real-world challenges.
- ✓ **PEO2:** Prepare successful careers in industry, entrepreneurship and higher education with adaptability and problem-solving expertise.
- ✓ **PEO3:** Uphold ethical values, foster innovation and demonstrate social responsibility to contribute positively to society and the environment.

EDiTORiAL BOARD

Chief Editor :

Mr. S.Chellappa, HOD/MECH

Faculty Editors :

- 1. Mr. S.Selvaraj, Lect/MECH**
- 2. Dr. M. Ponrajan Vikram, Lect/MECH**
- 3. Mr. S. Rajeswaran, Lect/MECH**

Student Editors :

- 1. Sivaram. P, II Year Mech-A**
- 2. Mohadeeswaran, II Year Mech-B**

ENHANCING INDUSTRIAL READINESS

A TNSCST INITIATIVE

A six-day Science and Technology Capacity Building Programme, sponsored by the Tamil Nadu State Council for Science and Technology (TNSCST), was successfully conducted at Sankar Polytechnic College with the objective of strengthening industry-oriented skills among polytechnic students.

The programme was organized in Phase-I across two schedules: 06.01.2025 to 08.01.2025 and 21.01.2025 to 23.01.2025, enabling effective participation and focused learning. A total of 310 students from polytechnic colleges across four districts actively took part in the programme, reflecting its wide academic outreach and regional impact. The programme was supported by a grant of ₹1.5 lakhs from TNSCST.



During the six days, participants were exposed to applied science concepts, emerging technologies, and contemporary industrial practices through expert lectures, demonstrations, and interactive sessions. Emphasis was placed on hands-on training, problem-solving skills, innovation, and employability, helping students bridge the gap between theoretical knowledge and real-time industrial needs.

ENHANCING INDUSTRIAL READINESS

A TNSCST INITIATIVE



The programme significantly enhanced students' technical competence, confidence, and awareness of industry expectations. By hosting this TNSCST-sponsored initiative, Sankar Polytechnic College reaffirmed its commitment to capacity building in science and technology, skill development, and strengthening industry-academia collaboration.



Overall, the programme proved to be highly impactful and served as a meaningful platform for nurturing industry-ready, skilled polytechnic students, contributing positively to technical education and industrial growth in the region.



CENTRE OF EXCELLENCE

Delphi-TVS Technologies Ltd - 23.05.2025



Sankar Polytechnic College, Sankarnagar, Tirunelveli, marked a significant milestone in industry–academia collaboration with the inauguration of the Centre of Excellence (CoE) – Fuel Injection Technology Lab, sponsored by Delphi–TVS Technologies.

The inaugural ceremony was held on 23rd May 2025 at 10.30 AM in the Sri Sharathambal Auditorium, in the august presence of the Correspondent, Principal, faculty members, industry representatives, students, and invited guests. The programme commenced with Thamizhthai Vaazhthu followed by the traditional lighting of the Kuthu Vilakku, setting an auspicious tone for the event.

The Chief Guest, Mr. K. Balaji, Vice President, Delphi–TVS Technologies Ltd., delivered an inspiring address emphasizing the importance of industry-aligned skill development and advanced laboratory infrastructure for preparing students to meet modern automotive industry requirements. Felicitation addresses were delivered by Mr. T. N. Umasankar, Plant Head, and Mr. S. Nagarajan, DGM – HR, Delphi–TVS Technologies Ltd., highlighting the collaborative vision behind establishing the Centre of Excellence.

CENTRE OF EXCELLENCE

Delphi-TVS Technologies Ltd - 23.05.2025

The Centre of Excellence – Fuel Injection Technology Lab is designed to provide hands-on training, exposure to contemporary fuel injection systems, diagnostics, and industry-standard practices, thereby bridging the gap between theoretical knowledge and real-time industrial applications. This facility will play a crucial role in enhancing students' employability, technical competence, and innovation capabilities.

The programme concluded with a vote of thanks and the National Anthem, followed by the formal opening of the Fuel Injection Technology Lab, symbolizing a strong commitment towards industry-based learning, innovation, and skill-oriented technical education.



The inauguration of this Centre of Excellence stands as a landmark initiative, reinforcing Sankar Polytechnic College's mission to deliver quality technical education through meaningful industry partnerships.

AWARENESS PROGRAMME ON MSME SCHEMES

An Awareness Programme on MSME (Micro, Small, and Medium Enterprises) Schemes was conducted at Sankar Polytechnic College, organized by the Entrepreneurship Development and Innovation Institute (EDII). The event aimed to enlighten students and faculty members about the various opportunities and government schemes available for aspiring entrepreneurs and innovators in the MSME sector.

The session commenced from 06/01/25 – 08/01/25 PM in the seminar hall, with Dr. M. Veera Gajendra Babu, Lecturer in Physics, serving as the mentor for the programme. The event's keynote address was delivered by the resource person, Dr. M. Ponrajan Vikram, a distinguished lecturer in the Department of Mechanical Engineering, Sankar Polytechnic College.



EDII – TN INITIATIVE



Dr. Ponrajan Vikram began his presentation by highlighting the pivotal role of MSMEs in the economic development of the country. He elaborated on the numerous government schemes designed to foster innovation, provide financial assistance, and support entrepreneurs in scaling their ventures. Topics covered during the session included startup funding options, innovation-driven entrepreneurship, skill development initiatives.



NATIONAL SERVICE SCHEME – NSS

ACTIVITY DETAILS

Sl. No.	Name of the Activity	Date	Time	Venue / Place	Objective / Description
1	Clean India Mission (Swachhata Hi Seva)	02.10.2024	09:00 AM To 12:30PM	Thalayuthu Railway Station	NSS volunteers cleaned the station premises, removed weeds, and ensured proper waste disposal to promote cleanliness and Gandhian values.
2	World Environment Day	05.06.2024	03:00 PM To 04:30PM	College Campus	Volunteers took green pledge, collected plastic waste, planted saplings, and created awareness on environmental conservation.
3	Campus Cleaning & Plastic Waste Collection	27.09.2024	09:00 AM To 10:30AM	College Campus	NSS volunteers cleaned the campus and collected plastic waste, which was later handed over to the Panchayat.
4	Campus Cleaning & Sapling Care Drive	28.09.2024	10:00 AM To 12:30 PM	College Campus	Volunteers cleaned the campus and nurtured planted saplings as part of Swachhata Hi Seva campaign.
5	World Bicycle Day	03.06.2024	08:30 AM To 10:30 AM	College to Thatthanallur	NSS volunteers conducted a bicycle rally covering 20 km to promote fitness, eco-friendly transport, and tribute to freedom fighters.
6	International Yoga Day	21.06.2024	08:00 AM To 10:30 AM	College Campus	Yoga session conducted to promote physical, mental, and emotional well-being among students and staff.
7	Blood Donation Drive	12.08.2024	09:00 AM To 10:30 AM	Government Hospital	Students and staff donated blood to support patients and promote voluntary blood donation.
8	Deworming Tablets Distribution	11.09.2024	09:00 AM To 10:30 AM	College Campus	Deworming tablets distributed to 950 students under medical supervision with health awareness session.
9	National Bone and Joint Week (BLS Training)	07.08.2024	12:00 PM To 02:00 PM	Vishveshwaraya Hall	Medical experts trained students on Basic Life Support and bone and joint health awareness.
10	Road Safety Awareness Programme	26.12.2024	09:00 AM To 10:30 AM	College Auditorium	Awareness programme on road safety rules and causes of accidents in collaboration with NH Safety Wing.
11	World Remembrance Day for Road Traffic Victims	06.11.2024	11:00 AM To 01:00 PM	College Auditorium	Programme conducted to honour accident victims and promote road safety awareness.
12	Nasha Mukta Bharat Abhiyaan	12.08.2024	09:30 AM To 10:30 AM	College Campus	Anti-drug pledge taken with police officials to promote a drug-free society.
13	International Day Against Drug Abuse & Illicit Trafficking	26.06.2024	10:00 AM To 12:30 PM	Thalayuthu Bazaar	Rally conducted to create public awareness against drug abuse and illicit trafficking.
14	Social Justice Day – Pledge	16.09.2024	09:00 AM To 10:30 AM	College Campus	Students and staff took pledge emphasizing equality, justice, and social harmony.
15	Indian Constitution Day	26.11.2024	11:00 AM	College Campus	Pledge taken to uphold constitutional values among students and staff.
16	National Youth Day – 2025	11.01.2025	11:00 AM To 12:30 PM	College Campus	Students inspired by the teachings of Swami Vivekananda on youth empowerment and nation building.
17	Independence Day Celebration (78th)	15.08.2024	09:00 AM To 10:30 AM	College Campus	Flag hoisting, patriotic speech, plantation drive conducted to instill patriotism.
18	Republic Day Celebration (76th)	26.01.2025	08:30 AM To 10:00 AM	College Campus	Flag hoisting, plantation drive, certificate distribution, and pledge conducted.
19	Fresher's Day Celebration	10.06.2024	10:00 AM To 11:30 AM	College Campus	Programme conducted to welcome new students and motivate them for academic journey.
20	Inter-School Volleyball Competition Support	17–18.10.2024	08:30 AM To 04:30 PM	College Campus	NSS volunteers supported event organization and crowd management.



NATIONAL SERVICE SCHEME – NSS

ACTIVITY DETAILS



WORLD BICYCLE DAY



WORLD ENVIRONMENT DAY



INTERNATIONAL YOGA DAY



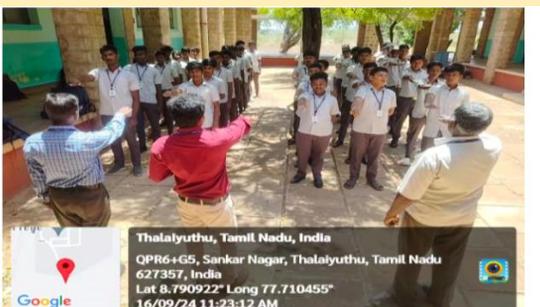
DRUG ABUSE RALLY



NASHA MUKTA BHARAT ABHIYAAN



DEWORMING TABLETS DISTRIBUTION



SOCIAL JUSTICE DAY



**CAMPUS CLEANING AND PLASTIC
COLLECTION**



NATIONAL SERVICE SCHEME – NSS

ACTIVITY DETAILS



Thalaiyuthu, Tamil Nadu, India
QPMH+GRR, Talaiyuthu, Talaiyuthu, Sankarnagar, Tamil Nadu 627367, India

CLEAN INDIA MISSION



Thalaiyuthu, Tamil Nadu, India
1106, Near The Sankar Polytechnic College, Kathiravan

ROAD SAFETY AWARENESS



ROAD TRAFFIC VICTIMS' REMEMBRANCE DAY



NATIONAL YOUTH FESTIVAL



CELEBRATING 78th INDEPENDENCE DAY



BLOOD DONATION



CLEANING CAMP AT TEMPLE



VOTER'S DAY PLEDGE

MEMORANDUM OF UNDERSTANDING

M/S. Glass Academy, Chennai – 26.07.2024



Delphi-TVS Technologies Ltd – 23.10.2024



MEMORANDUM OF UNDERSTANDING

Saint Gobain India Pvt Ltd, Chennai – 02.12.2024



Indian Welding Society – 24.02 2025



NATIONAL CADET CORPS – NCC

ACTIVITY DETAILS

Sl. No.	Date	Name of the Activity	Venue	No. of Cadets Participated	Brief Write-up
1	21.06.2024	International Yoga Day Programme	Sankar Polytechnic College	Mechanical NCC Cadets	International Yoga Day was celebrated to promote physical and mental well-being. NCC cadets actively participated in yoga sessions, emphasizing the importance of fitness and a healthy lifestyle.
2	05.07.2024	Enrolment of Cadets for I Year	College Ground	11 Cadets Selected	NCC cadet selection for first-year students of all branches was conducted. Eleven Mechanical Engineering students were selected after a physical and aptitude screening process.
3	15.08.2024	Celebrating 78th Independence Day	Sankar Polytechnic College	Mechanical Cadets & Students	NCC cadets participated in the Independence Day celebration and flag hoisting ceremony, instilling patriotism and respect for the nation.
4	24.11.2024	Blood Donation Camp	Government Hospital, Tirunelveli	3 Cadets	A blood donation camp was organized through the NCC unit. Mechanical Engineering cadets voluntarily donated blood, supporting patients and promoting social responsibility.
5	12.01.2025	National Youth Festival	Sankar Polytechnic College	15 Cadets	NCC cadets participated in National Youth Festival activities, focusing on youth empowerment, leadership, and nation-building.
6	26.01.2025	Celebrating 76th Republic Day	Sankar Polytechnic College	Mechanical Cadets & Students	Republic Day was celebrated with flag hoisting and patriotic activities. NCC cadets actively participated, reinforcing constitutional values and national unity.
7	13.02.2025	Plastic Collection & Awareness Programme	Sankar Polytechnic College	15 Cadets	NCC cadets conducted a rally and plastic collection drive to create awareness about environmental protection and the harmful effects of plastic usage.

NATIONAL CADET CORPS – NCC

ACTIVITY DETAILS



**ENROLMENT OF CADETS
FOR 1 YEAR**



**CELEBRATING 78TH
INDEPENDENCE DAY**



**PLASTIC AWARENESS
PROGRAMME**



**NATIONAL YOUTH
FESTIVAL**



**CELEBRATING 76TH
REPUBLIC DAY**



**PLASTIC AWARENESS
PROGRAMME**



BLOOD DONATION CAMP

PLACEMENT

TVS Motor Company Ltd

Date of Interview: 22.10.2024

Salary Package: 3.8 LPA



List of Students Placed:

1. J. M. Hari Krishna
2. P. Suresh
3. K. Selva Vigneshwaran
4. N. Ramesh

Ashok Leyland Limited

Date of Interview: 10.12.2024

Salary Package: 4.5 LPA



List of Students Placed:

1. M. Sheik Mohammed
2. M. Aswin
3. A. Nikkinson
4. R. Perumal

KYB Motorcycle India Pvt Ltd

Date of Interview: 28.12.2024

Salary Package: 2.28 LPA



List of Students Placed:

1. R. Manojkumar
2. V. Ganapathy
3. T. Ajish Varsha
4. P. Arun
5. K. Nambivel Raj
6. M. Ramesh
7. S.K.Narrenthra
8. G.Gopi Sendulkar
9. A.Sudharson
10. B.Vaikunda Nagaraja
11. S.Sri Durga Ram
12. R.Esakkiraja
13. D. Kevin Schwartz Asir
14. B. Stephen
15. M. Arun Parthiban
16. V. Saran Raja
17. P. Meenatchi Sundaram
18. S. Surya

Wheels India Ltd

Date of Interview: 29.12.2024

Salary Package: 2.316 LPA



List of Students Placed:

1. E. Selva Ganesh
2. C. Varun Raj
3. M. Sudalai Muthu
4. I. Uchimahali @Kannan
5. R. Ponsurya

PLACEMENT

Delphi-TVS Technologies Ltd

Date of Interview: 03.01.2025

Salary Package: 1.92 LPA



List of Students Placed:

1. M. Karuppasamy
2. G. Velmurugan
3. M. Gopi Krishna
4. N. Anantha Hariharan
5. M. Theena Merwin
6. R. Muthuganesan

HL Mando Anand India Ltd

Date of Interview: 27.01.2025

Salary Package: 2.22 LPA



List of Students Placed:

1. E. Renish Praveen

IP Rings Ltd

Date of Interview: 22.01.2025

Salary Package: 2.22 LPA



List of Students Placed:

- | | | |
|-------------------------|----------------------------|---------------------------|
| 1. S. Mathan | 9. M. Karuna Sagar | 17. P. Dinesh |
| 2. S. Bala Krishnan | 10. M. Siva Raj | 18. M. Sri Esakki Muthu |
| 3. R. Sathish Kumar | 11. M. Nambi Venkatesh | 19. B. Vigneshwar |
| 4. K. Lakshmana Perumal | 12. K. Mani Raja | 20. A. Arun Kumar |
| 5. M. Alagumuthu | 13. V. Namachivayam | 21. G. Utchimahali |
| 6. M. Raja | 14. B. Abdul Rahman | 22. S. Muthuvikash |
| 7. M. Uma Shankar | 15. V. Harish Muthu Ganesh | 23. K. Mukesh Selvanathan |
| 8. P. Sanjay | 16. M. Shanmuga Sundar | |

MOU PRE-VISIT

HL Mando Anand Ltd, Chennai – 16.04.2025



IWS, New Delhi – 08.02.2025



MOU PRE-VISIT

Delphi-TVS Technologies Ltd – 30.08.2024



ATOM XNERGI 2K24 – SEMINAR, EXHIBITION & STATE LEVEL PAPER PRESENTATION

Sankar Polytechnic College, Tirunelveli, successfully organized the state-level technical seminar and paper presentation event, ATOM XNERGI 2k24, on September 4, 2024. This collaborative initiative between the college's Institution of Engineers' Student Chapter and the Kudankulam Nuclear Power Plant Project (KKNPP) showcased the technical prowess of engineering students. The main aim of this seminar was to bring together students to exchange and share their experiences on Sustainability of Nuclear Energy and its Environment Challenges.



The Kudankulam Nuclear Power Plant operations exhibition, arranged in the Drawing Hall, attracted over 1000 attendees from various schools and polytechnic colleges. Mr. Balasubramanian and Mr. Rangan, members of the NPCIL committee, explained Safety Against Natural Calamities and Types of Nuclear Reactors



KKNPP SPONSORED

The inauguration ceremony started with a welcome address from Mr. S. Chellappa, Convener & Head. The event was graced by the presence of Mr. S. Muthukumar, District Science Officer, who inaugurated the Kudankulam Nuclear Power Plant operations exhibition. Mr. Prabhakar Kannan from KKNPP delivered the keynote address, providing valuable insights into the field. Other distinguished guests included Mr. Balasubramanian and Mr. Rangan from the Nuclear Power Plant. College officials, including Dr. A. Sankara Subramanian, principal and Mr. Naseer Ahmed, head of department, delivered introductory speeches. Mr. Srinivasan, administrative officer, offered a felicitation address. Dr. R. Karthikeyan and Dr. S. Suresh Kumar served as judges for the paper presentations.



ATOM XNERGI 2K24 – SEMINAR, EXHIBITION & STATE LEVEL PAPER PRESENTATION

Over 250 students submitted papers on diverse topics, including Nuclear Technology for a Sustainable Future, IoT in the Energy Grid, and Safety Evaluation of Power Plants. Fifty outstanding papers were selected for presentation, and more than 18 colleges participated in this prestigious state-level event. The paper presentations were held simultaneously in the AutoCAD Lab and PA Lab.



The event was expertly organized by Mr. S. Chellappa, Head of the Mechanical Engineering Department and Dr. M. Ponrajan Vikram, Lecturer, Mechanical, with support from other faculty members.

The Kudankulam Nuclear Power Plant (KKNPP) sponsored this event with a contribution of Rs. 39,000. With the support of the KKNPP management, the program was successfully completed. ATOM XNERGI 2k24 was a resounding success, providing a valuable platform for engineering students to showcase their research, learn from industry experts, and network with peers.



The valedictory function began with a thanksgiving speech by Dr. M. Ponrajan Vikram (Lecturer, Mechanical), followed by the honoring of the judges. Selvan Balasubramanian, III EEE and Selvan Syed Mohamed Inyazz A.S. III EEE from Sankar Polytechnic College secured the first prize for their exceptional paper presentation. Ms. Jaithara and Ms. Harshini from Government Polytechnic College for Women, Madurai, claimed the second prize. The third prize was shared by students from M.S.P.V.L. Polytechnic College and Arasan Ganesan Polytechnic College. The session concluded with a vote of thanks by Selvan Ashwin (Student Convener – III A Mechanical).



ACHIEVEMENTS

ISTE BEST Student Award



The Indian Society for Technical Education (ISTE), Tamil Nadu Section, conferred the prestigious ISTE Best Student Award – 2024 on 28.02.2025 for Selva Vigneshwaran K, III Year Mechanical Engineering, Sankar Polytechnic College, Sankar Nagar, in recognition of his overall excellence in academics, extra-curricular activities and active involvement in ISTE Chapter activities.

BEST Teacher Award



Mr. S. Chellappa, Head of the Mechanical Engineering Department, Sankar Polytechnic College, receiving the Best Teacher Award from ISTE (Indian Society for Technical Education) on 09.05.2025 for his exemplary service in technical education.

SPORTS ACTIVITIES



**IPAA-Divisional Level Carrom
Tournament- Winner**



**IPAA-State Level Carrom
Tournament- Runner-up**



**IPAA-Divisional Level Table
Tennis Tournament Runner-up**



**IPAA-Divisional Level Chess
Tournament-Third**



**CM Trophy Carrom
Tournaments - First Prize**



**Open Cricket Tournaments –
Runner-up**

STUDENT PARTICIPATION

M. Siva Subramanian, along with C. Varun Raj, M. Sheik Mohammed, and K. Selva Vigneshwaran, participated in a National-level Workshop titled “Research and Consultancy through Innovation and Incubation”, held on 19 September 2024 at PSN Institute of Technology and Science, Tirunelveli. The workshop provided valuable insights into research practices, innovative approaches, and incubation opportunities, enhancing the participants’ academic knowledge and professional outlook.

Selvan. K. Selva Vigneshwaran & Selvan. M. Sheik Mohammed, III A, Mechanical Engineering, Sankar Polytechnic College, Tirunelveli, actively participated in the Innovative Project Competition held at Arasan Ganesan Polytechnic College as part of the convention on 28th February 2025. Their participation demonstrated technical creativity, problem-solving ability and awareness of contemporary engineering challenges aligned with innovation and sustainability.

Selvan. M. Marieswar, a student of First Year Mechanical Engineering, secured Third Prize in the Poster Making Competition conducted at Sankar Polytechnic College on 05 February 2025. His achievement reflects creativity, dedication, and active participation in co-curricular activities.



TOPPERS

S. No	STUDENT NAME	YEAR	RANK
1	K.SELVA VIGNESHWARAN	III	FIRST
2	M.CHINNA DURAI	II	FIRST
3	M.N.HIDAYATHUR RAHMAN	I	FIRST

INDUSTRIAL VISIT



Visited Tuticorin Thermal Power Station (TTPS), Tuticorin plant for “III” Year “A” Sec Mechanical Engineering on 19.07.2024



Visited Tuticorin Thermal Power Station (TTPS), Tuticorin plant for “III” Year “B” Sec Mechanical Engineering on 26.07.2024

THE IMAGINATION SHELF

மனிதா நீ யார் ?

நீரில் உதித்து நீரில் கரையும்

மனிதா நீ யார் ?

அன்பில் தொடங்கி அழகையில் முடியும்

மனிதா நீ யார் ?

தன்னலம் விடுத்து மனிதா நீ பொதுநலம் பேணு ...

M. Aswin, III A

நீ நம்பினால்

உழைப்பு தான் மனிதனை உயர்த்தும் படிக்கட்டு,

விழுந்தாலும் எழுந்தால் தான் வெற்றி தொட்டு,

பயம் வந்தாலும் நம்பிக்கை விடாதே மனமே,

இன்றைய முயற்சி நாளைய பெருமையே,

கனவுகள் சுமையாக அல்ல,

இலக்காக மாறட்டும்,

நீ நம்பினால் - உலகமே உன் வழி மாறட்டும்!

A. Arun Kumar, III A

பக் பக்

இதயத்தில் ஒரு டக் டக்

மனதில் ஒரு பக் பக்

நாடியில் ஒரு டிக் டிக்

நினைவில் ஒரு திக் திக்

தேர்வு அறைக்குள் நுழையும் போது

P. Immanuel, II A

The Future of Additive Manufacturing

Additive manufacturing, commonly known as 3D printing, is transforming the way products are designed, developed, and manufactured. What began as a tool mainly used for rapid prototyping has evolved into a powerful production technology with applications across healthcare, aerospace, automotive, construction, and even space exploration. As technology continues to advance, additive manufacturing is expected to play a crucial role in shaping the future of industry and innovation.

Technological Advancements

One of the most significant developments in additive manufacturing is the improvement in printing speed, accuracy, and reliability. Modern 3D printers are capable of producing highly complex geometries with minimal human intervention. The integration of artificial intelligence and machine learning is further enhancing the process by optimizing designs, predicting failures, and improving quality control. These advancements are helping additive manufacturing move closer to large-scale industrial production.

Development of New Materials

The future of additive manufacturing is closely linked to material innovation. Beyond traditional plastics, researchers are developing advanced metals, high-performance polymers, ceramics, and composite materials. In healthcare, biocompatible materials are enabling the production of customized implants and prosthetics.

Multi-material printing is also gaining importance, allowing a single product to combine different properties such as strength, flexibility, and conductivity.

Impact on Manufacturing and Industry

Additive manufacturing is changing traditional manufacturing models. Instead of mass production, companies can now focus on mass customization, producing parts tailored to individual needs. On-demand manufacturing reduces inventory costs and supply chain dependence. Distributed manufacturing, where products are printed closer to the point of use, can significantly lower transportation costs and delivery times.

Role in Healthcare

Healthcare is one of the most promising areas for additive manufacturing. Customized medical implants, dental devices, and prosthetics are already improving patient outcomes. In the future, bioprinting may allow the creation of tissues and organs for transplantation. Additionally, 3D-printed anatomical models are becoming valuable tools for surgical planning and medical education.

Conclusion

The future of additive manufacturing is bright and full of possibilities. As technology matures, it will continue to revolutionize industries by enabling innovation, customization, and sustainability. From healthcare to space exploration, additive manufacturing is set to become a cornerstone of modern manufacturing and a key driver of technological progress.

M. Siva Balan, III A

INPLANT TRAINING

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1	K.SELVA VIGNESHWARAN	II / MECH- "A"	Thermal Power Plant - Tuticorin
2	M.SIVA BALAN		
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4	M.SHEIK MOHAMMED		
5	M.SIVA BALAN		
6	M.ASWIN		
7	V.BHARATH		
8	M.MOHAMMED THONIS		
9	P.MEENACHI SUNDARAM		
10	MUTHU KUMAR NATARAJ		
11	T.AJISH VARSHA		
12	A.ARUN KUMAR		
13	D.BOOPATHY		
14	K.SELVA VIGNESHWARAN	II / MECH- "A"	Sri Krishna TVS, Tirunelveli
15	M.SHEIK MOHAMMED		
16	M.SIVA BALAN		
17	A.ARUN KUMAR		
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