January - 2024

Petal 1

SANCET
Connect
The monthly magazine

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

(Accredited by NAAC, Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)

ANGUCHETTYPALAYAM, PANRUTI – 607 106.

SANCET CONNECT

PETAL -1

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           Mrs. S. Ramya, HOD/ S&H

           Ms. S. Abinaya, AP/CSE

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I am delighted to extend my warmest greetings to each one of you through the pages of our college magazine 'SANCET CONNECTS'. SANCET, a hub of academic excellence, proudly provides the diverse spectrum of engineering disciplines: Mechanical Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Computer Science and Engineering, and the cutting-edge Computer Science (Artificial Intelligence and Machine Learning) program.

At SANCET, our commitment towards nurturing future Engineering leaders is unwavering. Our distinguished faculty members, with their profound expertise and passion for teaching, plays a pivotal role in imparting knowledge that goes beyond textbooks. Throughout the pages, you will witness the culmination of their dedication in shaping well-rounded individuals capable of meeting the challenges of the dynamic world of Engineering.

We take pride in not only producing academically proficient graduates but also in cultivating a rich tapestry of talents through our emphasis on extracurricular activities. Our students are encouraged to explore, innovate and collaborate beyond the confines of classrooms. Through various platforms, they have excelled in competitions, showcased their technical skill and demonstrated leadership in diverse arenas.

This edition of SANCET Connects serves as a testament to the collective achievements and aspirations of our academic community. As you peruse its contents, I hope you will be inspired by our students' accomplishments and the vibrant spirit that defines the SANCET experience.

I extend my heartfelt gratitude to all who have contributed to the making of this magazine. May it serve as a bridge connecting our past achievements to the limitless possibilities that lie ahead.

Wishing you an enriching and insightful journey through the pages of SANCET Connect.

Warm regards
Dr. R. Arokiadass
(Principal)

I am very happy at the publication of college magazine **"SANCET CONNECT"** for the academic year 2023-2024. **SANCET CONNECT,** is a monthly periodical publication of our college through which our students and staff members get the opportunity to show their creative power. As you go through the pages, it will reflect you with the important milestones that college has achieved this month. Besides, our budding talents have expressed their thoughts, ideas, feelings in a creative way. This magazine should be a good source of guidance for faculties and coming batches of students in choosing activities of their choice in their future for building their carrier. The response of the students in contributing articles to the magazines was really over-whelming. I sincerely hope that the magazine proves to be an enjoyable in the hands of both students and faculty members.

I am really appreciating the efforts have taken by the students and faculty to create this magazine in the esthetic manner. I wish you all success in this endeavor.

Warm regards
Sr. Punitha Jilt
(Vice Principal & Dean)

DEAN OF EXCELLENCE MESSAGE

Greetings,

I am pleased to extend my warm greetings to all, and it fills me with pride to share the remarkable journey of St. Anne's College of Engineering and Technology (SANCET). The passing years have witnessed the institute's continuous growth and development, establishing itself as the foremost educational institution.

A rich events, experiences, and achievements of SANCET encapsulates the essence of our academic environment. From numerous academic achievements to a diverse array of cultural celebrations, from notable sports achievements to impactful community outreach initiatives, everyone's contribution serves as a testament to their exceptional talents and endeavors.

In addition to providing professional education, fostering innovative thinking, applying knowledge, instilling professional ethics, and promoting social responsibility, SANCET seamlessly incorporates the innovation-driven projects, industry interactions, soft skills, and personality development, as well as co-curricular and extra-curricular activities

In conclusion, I want to express my sincere appreciation to the editorial team for their unwavering dedication in creating "SANCET Connect". My best wishes go out to all those who have consistently contributed their efforts to make it a success. I am confident that, with the collective efforts of SANCET team, the institute will continue to ascend to greater heights of excellence in the years ahead.

Warm regards
Dr. Sr. S. Anita
(Dean of Excellence)

ST. ANNE'S CONGREGATION

HISTORY

The Congregation of the sisters of St. Anne of Tiruchirapalli (S.A.T) traces its origin back to the 19th century, when child marriage and consequential early widowed were prevalent even among the Catholics. Widows were treated as outcasts, inauspicious, subjected to untold suffering and inhuman treatment besides the social stigma stamped on them.

Servant of God Rev. Mother Annammal Foundress and First superior General (1858-1883)

Our Foundress, **Rev. Mother Annammal** was born in **1836** at Varaganeri, Palakarai, Tiruchirapalli, Tamil Nadu, India. Owing to cholera, many young girls, including our foundress, were widowed and treated worse than slaves by their families. The society didn't permit them to remarry. Our Foundress heard the divine call to bring succor to widows. Consequently, she decided to help the sick, the needy, educate poor children and supporting the Sakkiliar community. Inspired by her service, many young widows were joined in her noble journey.

Since the number of followers increased, she approached the Bishop of Tiruchirapalli **His Excellency Bishop Alexis Canoz S.J**. to establish a community for the widows. Due to financial difficulties the permission was denied. Since then, she would not ask for any financial aid and begged for permission which is granted later. The vibrant and burning urge of a single woman sowed the first seed for the vocation of the Congregation of the sisters of St. Anne, Tiruchirapalli to liberate the Indian women from the shackles of inhuman and irrational social practices and to empower women. Trusting in divine providence, Rev. Mother Annammal founded the **first community with nine widows on 2nd February, 1858.**

Earlier, the sisters paid attention to sick people. Gradually, they started running homes for unwed mothers, abandoned children and orphans. Being concerned with the upliftment of the poor, the weak, the marginalized, the destitute and the socially outcast young women, Congregation ministry has taken different apostolic activities that include Evangelization Ministry, Health Ministry, Service Ministry to Socially Disadvantaged, Educational Ministry and Care Ministry to intellectually and physically challenged. Through these apostolic activities, the Congregation has been striving for the emancipation and empowerment of women and children.

MISSIONS OF SAT

Through educational ministry, the Congregation is offering **Value Based Holistic Education** to develop knowledge and skills to inculcate moral, social and spiritual values among the students. The congregation realized that education plays vital role, in liberating and empowering girls and women for establishing a humane society. Since, it established Industrial Training Institute, Teacher Training School, 23 Higher Secondary Schools, 18 High Schools, 5 Middle Schools, 38 Primary Schools and 24 Nursery Schools. The congregation has also established higher educational institutions that include Arts and Science College at Periyakulam, College of Engineering and Technology, Polytechnic College at Panruti, College of Education and College of Special Education at Madurai.

The Congregation founded the healing ministry of Christ by providing the much-needed

health care and services to the poor and the needy in rural areas. SAT has 26 Health Care centers and one well equipped hospital in rural areas.

The Congregation extends its care for abandoned and parentless children by offering healthy food and shelter by establishing 20 orphanages and 21 boardings and hostels.

Socially and economically marginalized women are getting trained in computer based Fashion Designing, Tailoring, Type-Writing and Printing through 2 computer institutes, 10 Tailoring Centres, 6 Type Writing Institutes and 2 Printing Press. In addition to basic literacy programmes, skill training is also provided in cookery, catering, diet and nutrition, indoor decoration, childcare and first aid through 4 social welfare centres.

Self Help Groups are formed among rural and tribal women. This groups are given training to generate Income and they are assisted to become entrepreneurs by helping them to avail loan facility from the Banks and the Government.

The Congregation is rendering service ministry to visually impaired, hearing impaired, physically and intellectually challenged children by providing special education and training through 14 Special Schools and Rehabilitation Centers, Four Day Care Centers and three Community Based Rehabilitation Centers with the sole purpose to transform these unfortunate children to be independent and self-reliant and to be treated in a dignified way so that they are accepted with love and affection in their families and the society.

Poor rural women are trained in many hands related works at the Craft Centers for developing the necessary Skills and Self-Employment. A home for widows and unwed mothers was established to take care and concern in the society and 4 homes are established for aged people to lead normal and secured life.

At present,1052 Sisters of the Congregation in 184 communities spread across 24 Districts in Tamil Nadu, 8 States in India and 2 Foreign Countries to continue the mission to proclaim the Good News of Jesus by serving women, children, orphans, tribals, intellectually challenged, differently abled, girls and others through various ministry.

SANCET - 2024

The Congregation of the sisters of St. Anne's Tiruchirappalli took pioneer step ahead to start Industrial Training Institute to cater industrial skills among the rural students. In course of time, the congregation decided to upgrade Industrial Training Institution into higher technological institution. Since, it closed Industrial Training Institution and started Polytechnic and Engineering College at Panruti.

St. Anne's College of Engineering and Technology (SANCET), established in 2009 by the Congregation of the sisters of St. Anne's Tiruchirappalli, is located in Panruti town, Cuddalore district, Tamil Nadu, near Puducherry. SANCET is approved by AICTE, New Delhi,

affiliated with Anna University, Chennai, and accredited by NAAC. The institution aims to provide hope and dignity through education, forming character, increasing the strength of mind, expanding intellect, and enabling individuals to stand on their own feet.

SANCET offers five programs at the undergraduate level, with an intake of 300 students, including Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Mechanical Engineering, and Computer Science and Engineering (AI & ML). The institution spreads 10.09 acres, surrounded by a clean and lush green environment, with road facilities connecting all the blocks. It boasts excellent infrastructure, administrative space, academic, co-curricular, and extracurricular activities, as well as other amenities.

The institution comprises well-furnished, spacious classrooms equipped with LCD projectors and ICTs. These facilities support multimedia learning, Wi-Fi connectivity, and internet access for conducting theory classes based on curriculum requirements.

All laboratories adhere to AICTE and SANCET norms, providing practical classes and advanced technology training beyond the syllabus, utilizing 580 Mbps internet connectivity. Software laboratories feature licensed software and open-source tools to meet curriculum and industry teaching needs.

Software laboratories feature licensed software and open-source tools to meet curriculum and industry teaching needs.

SANCET's central library, located on the ground floor of Annai Annamal block, offers a conducive learning environment. It includes a large reading space, department-wise book racks, a separate

reference section, a digital library area, an Online Public Access Catalogue (OPAC) area, circulation, a periodicals section, CD section, and photocopy section. The library is equipped with internet facilities and houses 13,937 books, 24 national and 24 international journals.

The institution's conference room and auditorium can accommodate 100 and 700 seats, respectively. Separate dormitories with 57 rooms are available for boys and girls. SANCET operates a fleet of over 12 buses for student and staff transportation to various parts of the town and neighboring areas such as Cuddalore, Villupuram, Thirukovilur, and Ulundurpettai.

To promote a healthy lifestyle, SANCET features a spacious playground of 4067.29 m², including areas for volleyball, throwball, cricket,

and other extracurricular activities. The institution actively participates in various district and university-level competitions.

STAR OF SANCET - SECRETARY

Only a few people in this world leave their footprints on the sands of history. And these people of honour never die. One such grand personality is Rev. Sr. Dr. T. Nirmala, St. Anne of Tiruchirappalli (SAT) - an embodiment of inspiration, motivation, dynamism, sincerity, dedication, hard work, and what not. Her relentless service to the society reminds us the American famous poem,

"The woods are lovely, dark and deep,
But I have promises to keep,
And miles to go before I sleep,
And miles to go before I sleep."

Maraneri is a lovely tiny village in Thanjavur District - 'the Granary of South India' and 'the Rice Bowl of Tamil Nadu'. It has a very proud history. People of this village are living in a very peaceful manner. Agriculture is the main profession of this village. Rev. Sr. Dr. T. Nirmala, SAT, was born in this village on the 4th April, 1962. Her father Mr. P. Thivyanathan and her mother Mrs. R. Agathammal were God-fearing and hard-working farmers. During her childhood, the child Nirmala was found very active, devout and intelligent. Many times, her parents and teachers found it difficult to answer her curiously asked interesting questions on various things.

Blessed by the Almighty, the child Nirmala always thought of serving the poor. The benevolent service of her parents to the poor inspired her to direct her attention to the service of God and to the disadvantaged in the society. The doctrine of the Congregation of the Sisters of SAT has irresistibly drawn her towards spiritual life and she took the

vows of poverty, obedience and celibacy in the Congregation at the age of 17.

Nelson Mandela says: "Education is the most powerful weapon which you can use to change the world." and "A good head and heart are always a formidable combination." Rev. Sr. Dr. T. Nirmala found education a powerful tool to empower the women who have been discriminated in all respects in the society. She pursued higher education avidly. She completed her B.Sc. (Zoology) with First Class and M.Sc. (Zoology) with First Class at Madurai Kamaraj University in the Academic Years 1983 and 1985, respectively. She completed her B.Ed. at Madurai Kamaraj University in 1992. She earned a certificate course in Hindi at Rashtrabhasha Dhakshina Bharat Hindi Prachar Sabha, Periyakulam in 1998. She is a Doctorate (2002-2003) with Gold Medal for the best PhD.in Zoology (specialization: Ornithology) at Bharathiar University, Coimbatore.

Moreover, she is a diploma holder in Human Research Development. She completed this certificate course at Annamalai University, Chidambarim in 2008. Also, she has earned a certificate course in Office Automation

It is a known fact that man is inseparable from Nature. The ecological perspective of nature and the habitat of plants, birds and animals have become the focus of the study of Rev. Sr. Dr. T. Nirmala. Ornithology, the specialization of her Post Graduation in Zoology serves largely towards the maintenance of ecological balance through conservation. The vast scope of research in ornithology led her to take up a UGC-sponsored Minor Research Project Rs 23,500/- in the Academic Year 2001-2002 and launch on the UGC-sponsored Major Research Project at the estimate of Rs. 11,24,300/- at present. Her unquenchable thirst for research bore fruit in having organized Seminars/Workshop Conference of State/National/International levels within the College, the publication of books and research articles in the reputed National and International Journals and the presentation of Research Papers in Seminars/Workshops Conferences at State/National/International levels and the resultant publication of the same in the proceedings of the Seminars/Workshops/conferences at State/National/International levels.

Service to the community, being her breath, Rev. Sr. Dr. T. Nirmala has rendered her service to the marginalized through SARWODEEP (St Anne's Rural Women Development and Extension Programme) as the Joint Director and the NSS Program Officer and Co-ordinator and imparted Vocational Skills to the rural women in the adopted villages to enable them to generate income for their families. As value formation is the basic component of personality development a Kalaikuzhu (Art Group) of student volunteers was formed by her to foster values through fine arts. With the aim of inculcating and disseminating values within the College and in the Community, she invited folk artists to teach folk songs and folk dance to the members of the Kalaikuzhu

Teaching was the passion of Rev. Sr. Dr. T. Nirmala and she adopted innovative ICT-based teaching techniques.She has been the Secretary of St. Anne's College of Engineering and Technology, Panruti Taluk, Cuddalore District, since 2022.

EXCELLENT PERFORMERS

1. Dr. R. Arokiadass, Principal, SANCET, Dr. Sr. S. Anita, Prof. & Head/ECE and Mr. V.C. Eugin Martin Raj, AP & Head/EEE acted as resource expert in "Science and Technology Capacity Building for Industrial Needs" at Annai Velankanni Polytechnic College, Panruti on 30th August, 2023.

Department of Electrical and Electronics Engineering

2. Mr. V.Balaji AP/EEE has given 100% result in the subject "Disaster Management" in the academic year 2022-23.

3. Mr. V.C. Eugin Martin Raj AP/EEE has given 100% result in the subject "Total quality Management" in the academic year 2022-23.

Department of Electronics and Communication Engineering

1. Mrs. D. Umamaheshwari AP/ECE has given 100% result in the subject "Ad-hoc Wireless Sensor Networks" in the academic year 2022-23.

2. Mr. V. Venkatesan AP/ECE has given 100% result in the subject "Hospital Management" in the academic year 2022-23.

3. Dr. Sr. S. Anita, Prof. & Head/ECE was awarded best presentation in the Ninth

International Conference on Mining Intelligence and Knowledge Exploration (MIKE 2023) tilted "Hybrid Optimal Fine-Tuning Approach in Deep Learning for Identifying Early Parkinson's Disease" conducted by Noroff University College, Kristiansand, Norway.

4. Dr. Sr. S. Anita as reviewer in the Journal of Signal, Image and Video Processing.

5. Mr. S.Balabasker, AP/ECE of SANCET acted as a Jury Member in "Atom Sympo 2.0 (Virtual symposium)" organized by Project Contest Innovations(PCI) LLP in association with Sathyabama-TBI on 18.06.2023.

6. Mr. S.Balabasker, AP/ECE of SANCET acted as a Resource person for two days workshop on "Cloud Computing and IoT" organized by the Department of Computer Engineering, Annai Velankanni Polytechnic College, Panruti from 11th and 12th July 2023.

7. Mr. S. Balabasker, AP/ECE of SANCET acted as a Jury Member in "Ignite Innovations 2.0 - International Virtual Innovation Symposium " organized by Project Contest Innovations(PCI) LLP in association with Enstein Industries on 27.08.2023.

8. Mr. S.Balabasker, AP/ECE of SANCET acted as a Resource person for two days workshop in "Innovism 4.0 - International Virtual Symposium " organized by Project Contest Innovations(PCI) LLP in association with Axis global Automations-AGIIT on 22.10.2023.

9. Mr. S. Balabasker, AP/ECE of SANCET acted as a guest of honor for the "PCI™ IPL : Innovation Presentation League '23" organized by Project Contest Innovations(PCI) LLP in association with Nandha InfoTech, Coimbatore & Dream 360 on 26.11.2023.

10. Mr. S.Balabasker, AP/ECE of SANCET acted as evaluator for level1, 2 & 3 in School Innovation Development Project (SIDP) 2.0 organized by Entrepreneurship Development and Innovation Institute (EDII), Chennai in collaboration with the Department of School Education and the United Nations Children's Emergency Fund (UNICEF) on 08.01.2024.

11. Mr. S.Balabasker, AP/ECE of SANCET acted as a Jury Panel Member during the "Innoverse - Idea Pitching Symposium" organized by Project Contest Innovations(PCI) LLP in association with Axis global Automations-AGIIT on 28.01.2024.

Department of Mechanical Engineering

1. Mr.K. Shanmuga Elango AP/MECH has given 100% result in the subject "Power Plant Engineering" in the academic year 2022-23.

2. Mr. K. Saravanan AP/MECH has given 100% result in the subject "Entrepreneurship Development" in the academic year 2022-23.

3. Mr. M. Sivamanikandan AP/MECH has given 100% result in the subject "Principles of Management" in the academic year 2022-23.

COLLABORATION WITH INDUSTRIES & INSTITUTES

SANCET actively promotes synergy between academia and industry to enhance career development and provide robust placement support for students. The institution has established Memoranda of Understanding (MoUs) with several academic institutions and industries. These MoUs facilitate practical training, workshops, seminars, webinars, internships, in-plant training, and industrial visits which throughout the academic year 2023-2024. The functional MoUs underscore SANCET's commitment to fostering a collaborative learning environment for students and enhances good placement.

Here is the list of MoUs

- ❖ Sys Corp Technology Pvt Ltd, Pondicherry
- ❖ CAD point, Panruti
- ❖ JAYAM Electronics, Chennai
- ❖ BANYAN TECHNOLOGIES, Chennai
- ❖ Christ University (Deemed to be University), Bangalore
- ❖ Atal Incubation Centre, Pondicherry University, Pondicherry
- ❖ Lady Hawk, Coimbatore

- ❖ Andhra Loyola Institute of Engineering and Technology, Vijayawada, Andhra Pradesh
- ❖ Albertian Institute of Science and Technology, Kerala

FIRST ACCREDITATION AT SANCET

The SANCET, Panruti, underwent an assessment by a Peer Team from the National Assessment and Accreditation Council (NAAC) on August 17th and 18th, 2024. The team, led by Chairman Prof. Anand Deshpande Vice-Chancellor from Bagalkot University, Karnataka, along with members Prof. Manoj Duhan from Deenbandhu Chhotu Ram University of Science and Technology, Haryana, and Dr. Susmita Ghosh from Jadavpur University, Kolkata.

The assessment process began with a detailed discussion with the principal, Dr. R. Arokiadass. Subsequently, the team interacted with the IQAC Director Dr. S. Anita and Coordinator Mr. V.C. Eugin Martin Raj. The Peer Team meticulously evaluated various aspects of the college, including curriculum, teaching and learning activities, research, extension, infrastructure, and learning facilities. They were engaged with IQAC Heads, Department Heads, Faculty, Non-Teaching Staff, Students, Alumni, Governing body, and Parents. The team then inspected all academic, administrative, and support facilities. The first-day visit concluded with diverse cultural performances by the students, organized by the cultural committee.

On the next day, the team examined all the documents, and a report was prepared. Finally, an exit meeting was conducted with the faculty members on August 18th, 2024, at 4:00 p.m. The **report was formally handed over to the principal** during this meeting.

The entire SANCET community, including the Governing Body, Principal, IQAC Coordinators, Teaching and Non-teaching staff, Students, Parents, and Alumni, collaborated seamlessly during the visit.

This comprehensive evaluation process allowed SANCET to gauge its institutional capabilities, resulting in the retention of the 'B+' grade with a CGPA score of 2.75 in the first cycle of academic evaluation by NAAC.

STUDENT'S PERFORMANCE

INDUSTRIAL VISIT

The Department of Mechanical Engineering organized an Industrial visit to Perumal Foundry on Thursday, 26th October 2023, in Coimbatore. A total of 47 students from the Department of Mechanical Engineering and 2

teaching faculties visited the company to interact and understand the current scenario in the field of the manufacturing process.


Department of Mechanical Engineering organized an Industrial visit to Sri Suguna machine tools Pvt Ltd, on Friday 27th October 2023. Totally 47 students in Department of Mechanical Engineering and 2 teaching faculties visited the company to interact and to understand the current scenario in the field of manufacturing process. All the students got knowledge in manufacturing process, especially in casting and moulding process.
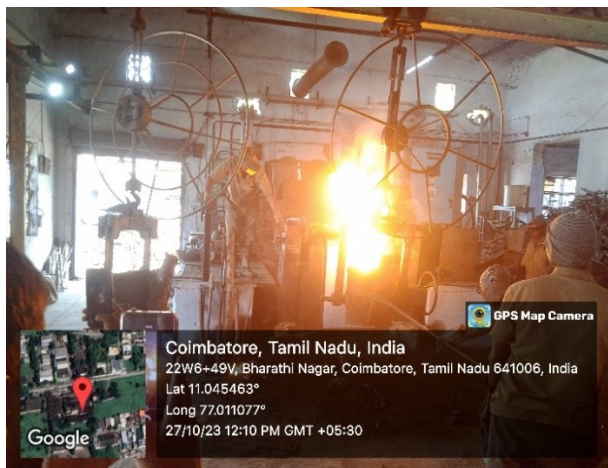
Final Year ECE students (2020-2024 batch) visited Kerala Electrical and Allied Engg. Co. Ltd, Kochi, Kerala on 26th October 2023 along with the staff members Mrs. D. Umamaheswari, Assistant professor/ECE, Mr. V. Venkatesan, Assistant professor/ECE, Mr. S. Durairaj Assistant professor/ECE.

ECE Second Year (2022-2026 batch) students visited VI Microsystems, Perungudi, Chennai on 25th November 2023 along with the faculty members Mrs. B. Mary Amala Jenni, AP/ECE, SANCET, and Mr. B. Arunkumar, AP/ECE.
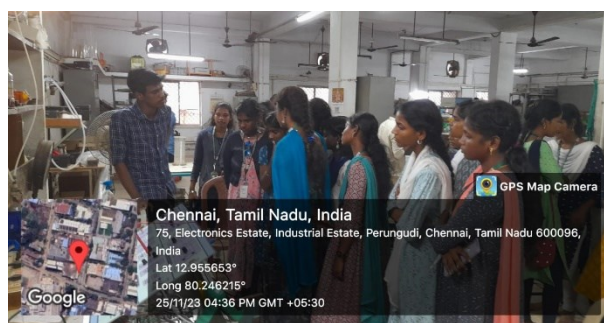
Students of the First Year (SANCET) along with seven faculty members from the Department of Science and Humanities visited "QUEENS LAND" Amusement Park on 3rd November 2023. Nearly 131 students assembled at 5.30 a.m. and left the campus in three buses that were arranged for the occasion. They reached the destination by 10.00 a.m. in the morning. The objective of this industrial visit is to let students know things practically through interaction, working methods, and employment practices employed in the amusement park.

STAFF PUBLICATION

1. Mrs. S. Jothi, Dr. S. Anita, Prof. & Head/ECE, and Mr. S. Sivakumar have published a paper entitled "Modified Exigent Features Block in JAN Net for Analyzing SPECT Scan Images to Diagnose Early-Stage Parkinson's Disease". Current Medical Imaging. 2023 Jun 5. DOI: 10.2174/1573405620666230605092654. E-Publish ahead of print. PMID: 37282573. **(SCI-E, IF- 1.315)**

2. Mr. S. Sivakumar, Dr. S. Anita, Prof. & Head/ECE, and Mrs. S. Jothi have published a paper entitled "Hybrid Optimal Fine-Tuning Approach in Deep Learning for Identifying Early Parkinson's Disease". In: Kadry, S., Prasath, R. (eds) Mining Intelligence and Knowledge Exploration. MIKE 2023. Lecture Notes in Computer Science (), vol 13924. Springer, Cham. https://doi.org/10.1007/978-3-031-44084-7_26.

STUDENT'S ACHIEVEMENTS

Department of Computer Science Engineering

❖ Ms. A Jasmine Medona and Ms. G Sowmiya IV CSE participated in **Engineeria Quiz** organized by CADD CENTRE Panruti on 27.09.2023 and won the 2nd prize and 3rd prize respectively.

❖ Ms. M Abinaya III CSE participated in **Code Debugging** contest held at AKT Memorial College of Engineering and Technology on 05.10.2023 and won the 1st prize.

❖ Mr. M Dinesh Balaji IV CSE participated in **APP Creation** contest held at AKT Memorial College of Engineering and Technology on 05.10.2023 and won the 1st prize.

❖ Mr. R Udhayamoorthy IV CSE Year participated in **Singing** competition held at AKT Memorial College of Engineering and Technology on 05.10.2023 and won the 3rd prize.

❖ Mr. K R Nithin Shyam IV CSE participated in **Speech** competition organized by Naan

Mudhalvan on 07.10.2023 and won the 2nd prize.

❖ Mr. J Jeffrey IV CSE participated in **Code Debugging** contest held at Idhaya Engineering College for Women on 04.11.2023 and won the 1st prize.

Department of Electrical and Electronics Engineering

5th Junior Athletic Championship -2023 was organized by Cuddalore District Athletic Association at Anna stadium on 12th August, 2023. M. Dhivakar IV EEE student participated in 400 and 100-meter Running Race and won the 2nd place and 3rd place respectively.

M. Dhivakar IV EEE student has participated in the District level Red Run Marathon – 2023 on 26th Aug 2023 Organized by District AIDS Prevention and Control Unit, Cuddalore and finished in sixth position.

Department of ECE in association with Electronics Communication Scientia Association organized "IDEAMAKERS-2023" on 6th Oct 2023. S. Bharani IV EEE has presented her idea on Bullet Proof Vests using Graphene and won second prize.

Department of Electronics and Communication Engineering

On account of Kalaignar Centenary Celebration "Debate competition" was organized by Government of Tamil Nadu on 7th October 2023 for college students. Ms. S. Rajasri, IV ECE student won the 1st prize and Ms. M. Sasireka II ECE won the 2nd prize.

On account of Kalaignar Centenary Celebration was organized by Government of Tamil Nadu on 7th October 2023. In this program, Tamil Nadu Government organized "Debate competition" for college students.

ADMISSION 2023-24

The admissions of students for the academic year 2023–24 was completed under the guidance of TNEA. Students were allocated to five departments through both the Government and Management quotas. SANCET extended their support the students those who are economically backward, single parent children. The college offers financial assistance to those students, sourced from the Central Government, State Government, and the college's Management scholarship.

ADMITTED STUDENTS DURING 2023-24

DEPARTMENT	TOTAL STRENGTH
Computer Science Engineering	58
Artificial Intelligence and Machine Learning (CSE)	48
Electrical and Electronics Engineering	17
Electronics and Communication Engineering	39
Mechanical Engineering	15
TOTAL	**177**

STUDENTS RECEIVED SCHOLARSHIP

SCHEME	STUDENTS COUNT			
	I year	II year	III year.	IV year
PMSS Scholarship	63	52	46	29
7.5 Scholarship	16	10	8	-
First Graduate	72	58	67	39
Management Scholarship	90	104	91	53
TOTAL	**241**	**224**	**212**	**121**

ALUMNI CONTRIBUTIONS

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

A Seminar on the "Role of Engineers in Armed Forces" took place on 14th September 2023. Mr. R. Rasu, CRPF, Para Military Force, Indian Army, and Proud Alumni Student of the 2022 batch, SANCET, shared various opportunities for Electrical Engineers in the Indian Army, providing valuable information on applying for vacancies in the armed forces. Nearly, 74 students were participated in this seminar and benefitted.
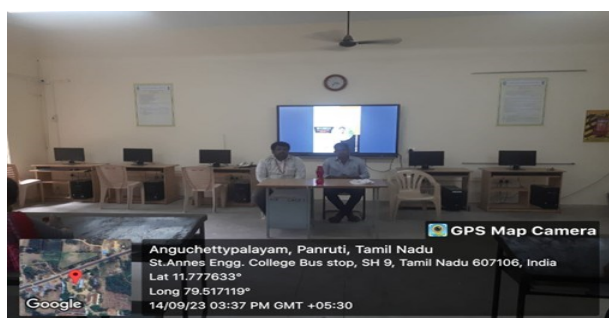
On October 3, 2023, a one-day seminar on "Job Opportunities in Semiconductor Devices" was organized. Mr. S. Joseph Sebastian, Hardware Engineer (Power and Performance) at Intel Technology India Pvt. Ltd. Bangalore and SANCET's Notable Alumni Student of 2015, shared information on career options for electrical engineers in the electronics industry, creating awareness about the demand for engineers in the industrial sector. 77 students were participated and gained information regarding semiconductor industries.

INTERNSHIP

As a part of academic, SANCET arranged internship for the students in order to acquire knowledge and gain valuable industrial work experience. Nearly 66 students from Department of Computer Science Engineering and Department of Electronics Communication Engineering completed their internship course in Syscorp Technology, Pondicherry, Stigmata Techno Solutions, NSIC-technical services, VEI Technologies Pvt. Ltd., NLC INDIA Limited, Neyveli and Kodacy in association with Scientific Platforms and Cosmic Explorations (SPACE).

Department of Computer Science Engineering

S.No.	STUDENT NAME	COMPANY NAME	DATE
1	Akash.A		
2	Chandhiya.S		
3	M.Dinesh Balaji		
4	Haripriya.A		
5	Jaysri.V		
6	Mariya Asha.J		
7	Praveen Kumar.V		
8	Sivaranjini.R		
9	Monika.S		
10	Abinaya.M		
11	Agnes Maria.M		
12	Ashok Naveen Kumar.A		
13	Bhagyasri.S		
14	Chandra Kumar.V		
15	Geetha.R		
16	Gopinath.A		
17	Ishwarya.M		
18	Jayasri.B		
19	Jenisha.L		
20	Kanika.M		
21	Karthika.A		
22	Kaviya.S	SYSCORP TECHNOLOGY, PONDICHERRY	14-06-2023 to 14.07.2023
23	Kaviyapriya.R		
24	Logith Kumar.A		
25	Mohammad Anas.S		
26	Nathiay.D		
27	Parkavi.B		
28	Ragavinothini.R		
29	Raj Kumar.K		
30	Ram Kumar.M		
31	Roshan Willson.V		
32	Rubika.R		
33	Sargunadevi.C		
34	Sarmesh.S		
35	Sowmiya.G		
36	Sunil Kumar.S		
37	Sushmitha.A		
38	Susi.J		
39	Suwathi.D.N		
40	Vasantha Kumar.V		
41	Vidhya.K		
42	Vijayalakshmi.S		
43	Ashika.S		
44	Kamli.R		
45	Sathish Kumar.R		
46	Jeyorgis Aliston. B	STIGMATA TECHNO SOLUTIONS	26-06-2023 To 14-07-2023
47	B. Jeyorgis Aliston	NSIC-TECHNICAL SERVICES CENTRE	17.07.2023 To 24.07.2023

Department of Electronics and Communication Engineering

S.NO	STUDENT NAME	COMPANY NAME	DATE
1	S. Srihari		
2	A. Anilkumar		
3	V. Ajithkumar		
4	D. Chandru,	VEI TECHNOLOGIES PVT LTD	03.06.2023 to 01.07.2023.
5	R. Akash		
6	D. Umamageshwaran		
7	U. Nivetha		
8	M. Kayalvizhi		
9	S. Rajasri		
10	M. Ajith	NLC INDIA LIMITED, NEYVELI	05.07.2023 to 01.08.2023
11	G. Vanjinathan		
12	V. Vasanthan		
13	R. Lingeshwaran		
14	N. Viswanath	SYSCORP	14.06.2023 to 14.07. 2023
15	P. Balaguru		
16	E. Priyadharshan		
17	R. Ragul		
18	U.Karthikeyan		
19	T. Immanvel	Kodacy in association with Scientific Platforms and Cosmic Explorations (SPACE)	24.08.2023 to 07.09.2023

INPLANT TRAINING

SANCET was organized In-plant training for the students to develop their on – field practical skills in their field of specialization. Nearly 24 students from the Department of Electronics and Communication Engineering underwent industrial training in Yazh academy - Profeena Technologies, Neyveli.

Department of Electronics and Communication Engineering

S.NO.	STUDENT NAME	COMPANY NAME	DATE
1	Abi . E		
2	Anitha . R		
3	Archana .A		
4	Arundoss. A		
5	Ashwin .A		
6	Deepika .K	YAZH ACADEMY - PROFEENA TECHNOLOGIES, NEYVELI	03.06.2023 to 07.06.2023
7	Dhivya .A		
8	Duraimurugan .A		
9	Gopinath .V		
10	Inbaraj .D		
11	Mangaleshwar .U		
12	Mohan .J		

S.NO.	STUDENT NAME	COMPANY NAME	DATE
13	Mohana P		
14	Monish S		
15	Prithisha E		
16	Ragunath A		
17	Rajamohan P		
18	Sanjai S		
19	Sathishkumar P		
20	Selvakumar S		
21	Senthamizhnila V		
22	Srihari K		
23	Vaishali S		
24	Vignesh K		

EVENTS ORAGANIZED BY THE DEPARTMENT

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

A Guest Lecture on "Digital Marketing" was organized by the Department of Computer Science Engineering on 27.07.23. The resource person was Mr. K. Santhosh Kumar, SEO Team Lead at Syscorp Technology, Puducherry. Nearly, 41 students attended the program, and after the lecture, students had the opportunity to interact with him. The session was deemed highly informative and interactive.

A seminar titled "Today IT" was conducted on 28.07.23 and resource person for this event was Mr. K. Kamal Kumar, CEO of Syscorp Technology, Puducherry. After the session, students engaged in interaction, and their feedback highlighted the benefits they gained. Total number of students participated 59.

An Awareness Program on "Gate 2024" took place on 27.07.23 and the resource person was Prof. Dr. Shiva Nagendra SM from TNSD, IIT Madras. Nearly, 64 students participated, expressing high motivation and encouragement.
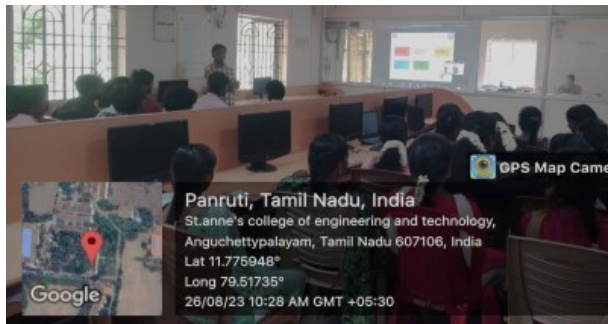
The Department organized a Technical Quiz Competition on 14.09.23, where enthusiastic participation from 87 students was observed, resulting in a highly engaging and enjoyable event.

A webinar on "Internet of Things" was conducted on 19.10.23 by the Department, with Mr. Vignesh from Pantech, E-Learning, Chennai as the resource person. Nearly, 74 students attended the webinar, gaining insights into the latest technology trends and related career opportunities.

On 14.10.23, an Essay Writing and Drawing Competition was held by the Department, showcasing the inner talents of 79 students.

A one-day workshop on "Knowledge on Git/Github" was organized on 18.10.23, featuring Ms. K. Kayalvizhi, AP/CSE, SANCET, as the resource person. The workshop aimed to expose students to Git/Github knowledge and enable them to understand, explore, and contribute to the domain. Total number of students participated 75.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

The Department, in collaboration with the Placement Cell, hosted a Placement Awareness Program on Job Opportunities in Electrical Core Industries on October 11, 2023. Mr. Gopi Narayanan. S, Senior Manager at SPK Power Infra Pvt. Ltd. Chennai, discussed strategies for engineers in the industrial sector and opportunities for electrical engineers in testing. Nearly, 60 students from Department of Mechanical and Electrical & Electronics Engineering students were benefitted from this event.

A workshop on "Testing of Electronic Devices in Hardware" was organized on 08.11.2023 for 26 second-year EEE students. Mr. Raja V, Proprietor of Raja Electronic Institute, Cuddalore, discussed the fundamentals of electronic components and offered lectures on power consumption calculation and EB circuit board operation.
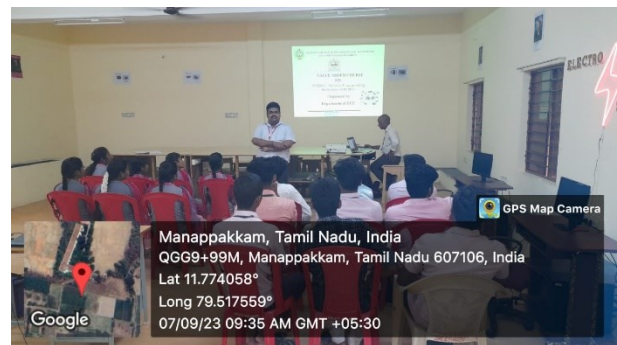

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A Five-Day Extension Programme on "Fix Your Smartphone" was conducted by Mr. D. Chandru, IV Year/ECE, SANCET, and Mr. S. Srihari, IV Year/ECE, SANCET, for the 10 first-year students of Electronics and Communication Engineering from 26.06.2023 to 30.06.2023 at SANCET, Panruti.


A Five-Day workshop on "Micropython Using Raspberry Pi Pico" was conducted by Mr. S. Balabasker, AP/ECE, SANCET. 15 students belong to final year Electronics and Communication Engineering attended this workshop from 28.08.2023 to 01.09.2023 at SANCET, Panruti.

A Value-Added Course on "IVA064 – Arduino Programming" was conducted by Mr. S. Balabasker, AP/ECE, SANCET and Mr. B. Arunkumar, AP/ECE, SANCET for the final year students of Electronics and Communication Engineering from 04.09.2023 to 15.09.2023 at SANCET, Panruti. Nearly,18 students completed this value added course successfully.

A Two-Day workshop on "Antenna Design Using HFSS" was conducted by Mr. S. Durairaj, AP/ECE, SANCET, and Mr. R. Radhakrishnan, AP/ECE, SANCET for the final year students of Electronics and Communication Engineering from 11.09.2023 to 12.09.2023 at St. Anne's College of Engineering and Technology, Panruti. Nearly, 18 students attended this workshop.
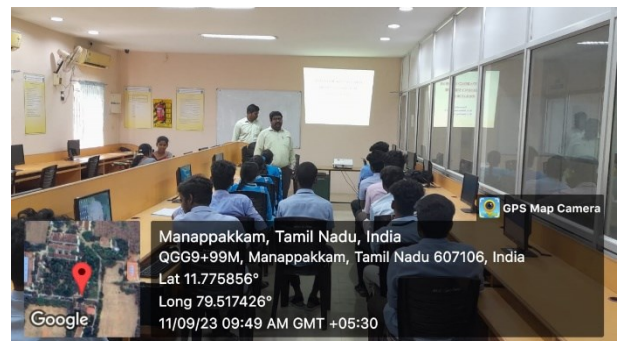
The Department of Electronics and Communication Engineering (ECE), in association with Electronics Communication Scientia Association (ECSA), organized a "Technical Quiz" to celebrate Engineer's Day, conducted by Mr. S.
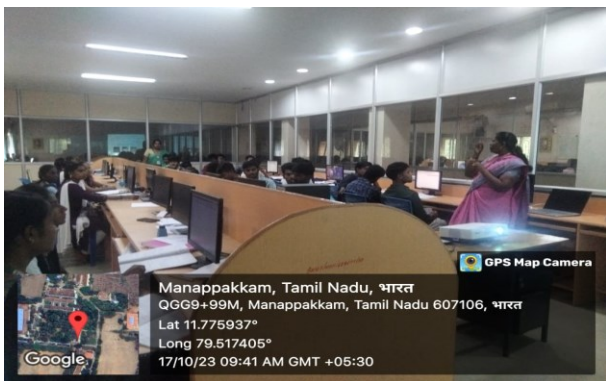
Durairaj, AP/ECE, SANCET, and Mr. B. Arunkumar, AP/ECE, SANCET on 14.09.2023 at 3.00 PM.

The Department of Electronics and Communication Engineering (ECE), in association with Electronics and Communication Scientia Association (ECSA), organized a National Level Idea Contest "Ideamakers-2023" on 06.10.2023. Nearly, 52 students were participated in this contest.


A Two-Day workshop on "Image Processing Techniques Using MATLAB" was conducted by Mrs. D. Umamaheswari, AP/ECE, SANCET, and Mrs. B. Mary Amala Jenni, AP/ECE, SANCET. Nearly, 32 students belong to third-year of Electronics and Communication Engineering attended this workshop from 16.10.2023 to 17.10.2023 at SANCET, Panruti.

A Two-Day workshop on "PCB Design Using Proteus" was conducted by Mr. S. Durairaj,

AP/ECE, SANCET, and Mr. V. Venkatesan, AP/ECE, SANCET. Nearly, 54 students belong to second-year of Electronics and Communication Engineering attended this workshop from 18.10.2023 to 19.10.2023 at SANCET, Panruti.
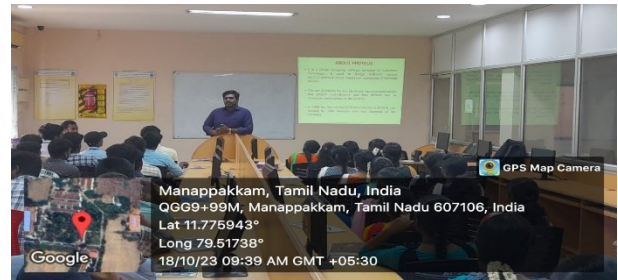
A Value-Added Course on "Coding with Python" was conducted by Dr. R. Dayana, ASP/ECE, Dr. S. Krithiga, ASP/ECE, Dr. K. Vadivukkarasi, AP/ECE, and Dr. D. Vijayalakshmi, AP/ECE, SRM Institute of Science and Technology for the second year and third year students of Electronics and Communication Engineering from 30.11.2023 to 03.11.2023 at St. Anne's College of Engineering and Technology, Panruti. Nearly, 86 students completed this value added course successfully.

A One-day workshop on "Testing of Electronic Devices in Hardware" was conducted by Mr. V. Raja, Proprietor of Raja Electronics Institute for the second-year students of Electronics and Communication Engineering from 09.11.2023 at St. Anne's College of Engineering and Technology, Panruti. Nearly, 54 students attended this workshop.

A Two-Day workshop on "Basics of Electronic Components used for Project Development" was conducted by Mr. S. Balabasker, AP/ECE, SANCET for the Faculty of Electronics and Communication Engineering from 07.12.2023 to 08.12.2023 at St. Anne's College of Engineering and Technology, Panruti.

A Seminar on "Creating Researchers ID" was conducted by Mr. S. Balabasker, AP/ECE, SANCET for the Faculty of Electronics and Communication Engineering from 18.12.2023 at St. Anne's College of Engineering and Technology, Panruti.

A Value-Added Course on "Embedded System Design" was conducted by Mr. S. Balabasker, AP/ECE, SANCET, and Mr. B. Arunkumar, AP/ECE, SANCET for the third-year students of Electronics and Communication Engineering from 09.01.2024 to 13.01.2024 at St. Anne's College of Engineering and Technology, Panruti.

DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering, in association with the Energy Club, organized a Guest Lecture to raise awareness about the "Recent Trends in the Future of Tidal Energy" on the 26th of August 2023, at the Mechatronics Laboratory. The Resource Person was Mr. Vaithiyanathan Shanmugam, B.E., General Manager, Asia Power Hydraulics, Puducherry. The third and final-year students of the Department of Mechanical Engineering actively participated in the program. Nearly, 65 students gained knowledge of renewable energy, providing them with employment opportunities in Tidal Energy Power Plants.
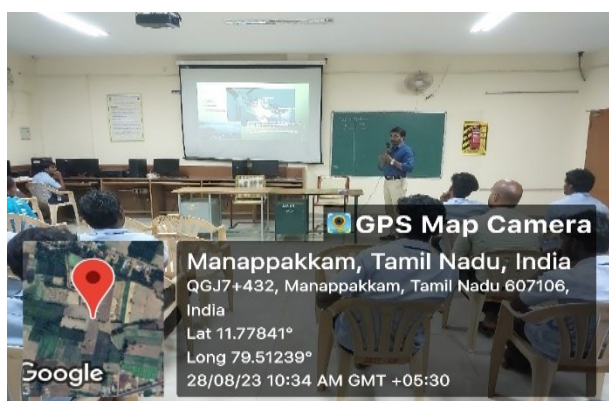
The Department of Mechanical Engineering organized a Webinar on "Online Awareness Session for the GATE 2024 Examination." The resource person, Prof. Dr. Shiva Nagendra SM, the Chairman, M.Tech. MSc, and MA Admissions, IIT Madras, provided important details about the Graduate Aptitude Test in Engineering and Joint Admission Test for Masters' Programs. Nearly, 44 Students from all departments benefited from this program for their higher studies and career development.
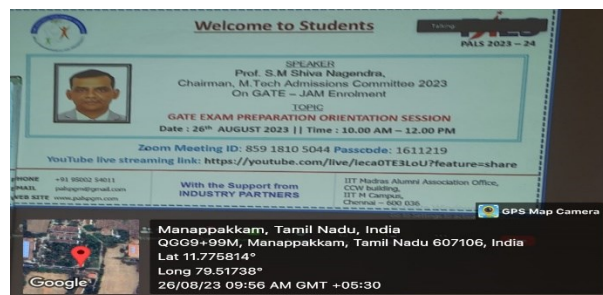

The Department of Mechanical Engineering organized a 3-day workshop on Creo Software for II and III-year Mechanical students on 14th, 21st, & 28th October 2023. The course was conducted by Mr. K. Shanmuga Elango, AP/MECH of SANCET. Nearly, 42 students successfully completed this workshop.

During this course, sketching, solid modeling, surface modeling, and assembly were covered. The students' ideas were greatly expanded by this training course. A total of 42 students participated, and a certificate was provided to every student. The students gained knowledge of advanced modeling tools like sweep, blend, shell, and blend.

The Department of Mechanical Engineering, in association with the Mechanical Engineering Students Association (MESA), celebrated Engineer's Day and conducted a "Technical Quiz" on 14.09.2023. The third-year and final-year

students of the Department of Mechanical Engineering participated in this event. The top three scorers have been appreciated and awarded prizes by the department faculty members.
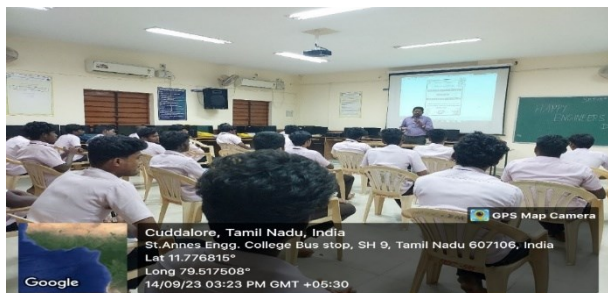

DEPARTMENT OF SCIENCE AND HUMANITIES

The Department of Science and Humanities of SANCET, Panruti, celebrated Engineer's Day on 15th September 2023 at 3:30 pm. The aim of the program is to develop the skills of the students. The program commenced with the prayer song followed by the reading of holy books. The welcome address was proposed by Mr. N. Syed Mubarak, AP/MAT, the Presidential address was given by our principal Dr. R. Arokiadass. This was followed by the felicitation by vice–Principal Rev. Sr. A Punitha Juilt AP/CSE.
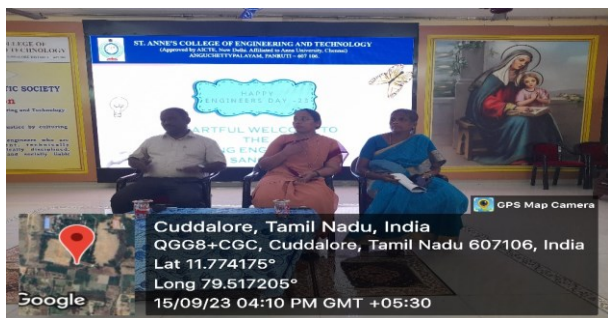
On this day, various types of competitions like Drawing competition (technical world in 2050), Elocution (The role of Tamil people in Chandrayaan-3), Solo singing, and Quiz were conducted for students. The competition was judged by our staff members in a genuine manner, and winners were appreciated by our college principal. Finally, the program ended with a vote of thanks by Mr. R. Rakesh Jawhar, AP/PHY.

An Induction program was conducted by the Department of Science and Humanities from 11.09.2023 to 15.09.2023 with the intention of introducing first-year students to the curriculum of engineering education.
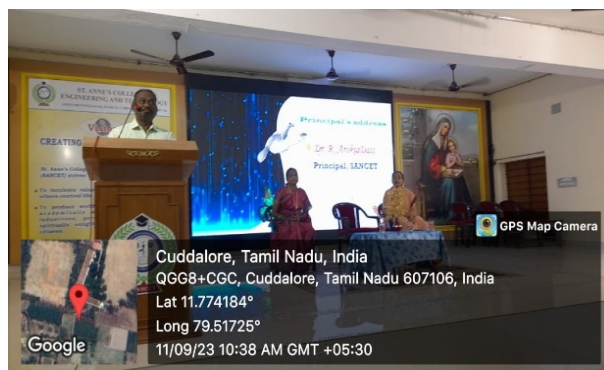
The inaugural function of the Academic Year (2023-2024) for the first years was held at St. Anne's College of Engineering and Technology, Panruti, on 25.09.2023. Nearly, 171 students came to step into the Learning Portal of SANCET. Mrs. S. Ramya, ASP /Che. HOD of S&H, welcomed the gathering. The secretary, Dr. Sr. T. Nirmala, presided over the function. The principal, Dr. R. Arokiadass, SANCET, felicitated the gathering. Parents attended the inaugural function with pride and happiness because of their students' educational journey started with the stream of Engineering and Technology at SANCET.

A guest lecture on "Applications of Differential Calculus" was organized by the Department of Science and Humanities on 22.12.23. The resource person was Dr. C. Jesuraj, AP/Maths, CK College of Engineering and Technology, Cuddalore. Nearly, 161 first-year students attended the program. The students gained basic concepts in the Applications of Differential Calculus. They felt that the session was more informative and interactive.

Manappakkam, Tamil Nadu, India
QGH9+449, Manappakkam, Tamil Nadu 607106, India
Lat 11.777169°
Long 79.517613°
22/12/23 10:20 AM GMT +05:30

CELLS AND CLUB ACTIVITIES

INTERNAL QAULITIY ASSURANCE CELL

The Internal Quality Assurance Cell (IQAC) organized an orientation program entitled "Role of Teachers in the 21st Century" on 05.08.2023 in the Conference Hall.

The resource person was Rev. Sr. Dr. B.J. Queensly Jeyanthi, SAT, Secretary, Jayaraj Annapackiam College, Periyakulam. The aim of this program was to encourage faculty members to achieve their goals effectively. All the faculty members attended the program and felt that it was very useful for improving their quality mindset.

The Internal Quality Assurance Cell (IQAC) organized a training program entitled "Assessment Rubrics" on 16.09.2023 at the Conference Hall for faculty members to learn more about rubrics for internal marks. The resource persons were Mr. S. Balabasker, AP/ECE, and Mrs. B. Mary Amala Jenni, AP/ECE, from SANCET, Panruti. All the faculty members attended the program and found it very useful for improving their quality in internal assessment.
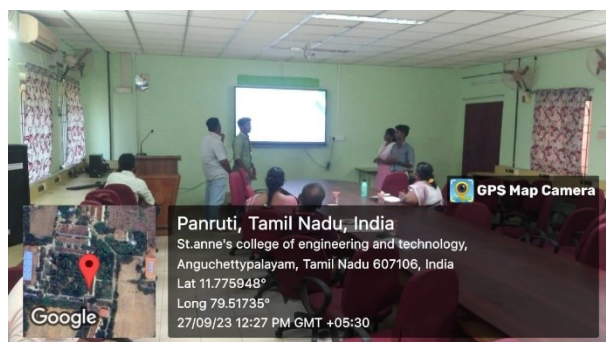
CAREER GUIDANCE AND PLACEMENT CELL

Career Guidance and Placement Cell organized a seminar entitled Possibilities of signing with top-rated Companies" on 21.12.23 in the conference hall. The Secretary Rev. Sr. Dr. T.Nirmala, the Principal Dr. R. Arokiadass, the Vice-Principal Rev. Sr. Punitha Jilt and staff members were participated. The program started at 2.30 p.m with prayer.

Dr. Ommurugadhasan, Placement Cell Co ordinator welcomed the gathering and introduced the chief guest Mr. J. George Fernandaz, Corporate Relation Officer-South Zone IIM Bengaluru. He discussed pros and cons of signing MoU with top-rated industries. He clarified all the doubts and queries raised by the staff members. The staff members were inspired a lot from the program. Dr.D.Sampathkumar Placement member proposed the vote of thanks. Finally, the program ended with feedback session and National Anthem.

RESEARCH AND DEVELOPMENT CELL

Research and Development Cell organized Internal Smart India Hackathon 2023 on 27.09.2023. 216 students from our college participated in the internal smart India hackathon. Problem solutions proposed by 36 teams were selected based on the uniqueness of the content.

Panruti, Tamil Nadu, India
St.anne's college of engineering and technology, Anguchettypalayam, Tamil Nadu 607106, India
Lat 11.775948°
Long 79.51735°
27/09/23 12:27 PM GMT +05:30

NATIONAL SERVICE SCHEME

A Tree Plantation program was organized at SANCET through the National Service Scheme Unit on 8th August 2023 at 11:00 AM. The first-year students actively participated in the program.

The Principal, Department HODs, Faculty, NSS Volunteers and Students planted saplings in our college premises. Our faculty also explained the types of trees and emphasized the importance of tree plantation. Nearly 100 trees were planted on that day.

St. Anne's College of Engineering and Technology, Panruti celebrated 76th Independence Day on 15th August 2023, at adopted Irular Colony, Vellai Nagar by the college NSS unit.

Our honourable Secretary, Rev. Sr. Dr. T. Nirmala, hoisted the tricoloured flag and shared few words about the dedication showed by our Father of Nation, Mahatma Gandhi who is still recognized as an embodiment of non-violence. Rev. Sr. A. Punitha Jilt, Vice Principal, motivated the students. Our NSS Volunteers distributed flags and sweets to students and village people.

Swachh Bharat Abhiyan, the Clean India Mission was organized at SANCET by the National Service Scheme Unit on 12th August 2023. The objective of this mission is to create awareness about the cleanliness among the students. The NSS volunteers are actively participated in this program and clean the campus.

Kalaignar Centenary Celebration was organized by Government of Tamil Nadu on 7th October 2023. Tamil Nadu Government organizes "Debate competition" for college students. Nearly, 80 students were participated in this competition and won the prizes.

INTERNAL COMPLIANT COMMITTEE

The Internal Complaint Committee organized an Awareness Program on "Safety and Security for Girls' Students" on 14.10.2023 at the college auditorium. The function commenced with a prayer song followed by readings from holy books. Mrs. D. Umamaheswari, AP/ECE, delivered the welcome address and introduced the chief guest.

Mrs. A Tharaneswari, Inspector of Police, Crime Branch, was honored with a shawl and a momento by our Principal, Dr. R. Arokiadass, and our Vice Principal, Sr. A. Punitha Jilt. Subsequently, the chief guest shared her thoughts and ideas about Women's Safety and Security in an entertaining and thought-provoking manner. The vote of thanks was delivered by Ms. Ishwarya, III/CSE. The event concluded with the National Anthem.

SPORTS CLUB

The Zonal Kho Kho tournament was conducted at St. Anne's College of Engineering and Technology on October 26, 2023. In the tournament, the SANCET Kho Kho team participated and won the third prize.

M. Dhivagar, a final-year student from the Department of Electrical and Electronics Engineering, participated in the 400 and 200 Meter Race events in the Anna University Zonal tournament at Surya Group of Institutions, Villupuram, on December 8, 2023, and secured the first prize in both events.

NAAN MUDHALVAN

SANCET successfully implemented the Naan Mudhalvan scheme by Tamilnadu Government to bridge the skill gap among students and prepare them for employability by offering training programs. The Naan Mudhalvan scheme also provides guidance and mentorship to talented students, helping them excel in their chosen field of interest. The institution strictly adheres to the Tamil Nadu government's efforts toward promoting skill development and creating a bright future for students.

List of Courses:

- ❖ Cyber security
- ❖ IBM Nalayathiran
- ❖ PLC using Simatics
- ❖ Employability Skills
- ❖ Microsoft Essentials
- ❖ Network Essentials
- ❖ Sales force Developer
- ❖ Cambridge English

SANCET NOVENA

St. Anne's Feast, dedicated to the Patron Saint of the sisters of St. Anne, was commemorated on 26th July 2023 in our college Auditorium by our students. They organized many programmes and video presentation to pay homage to the sisters. All the staff members actively participated in this celebration. Students were appreciated with sweet and kaaram. Staff enjoyed sumptuous lunch.

TEACHERS DAY CELEBRATION

Teacher's Day was celebrated at St. Anne's College of Engineering and Technology, Panruti on 5th September. 2023 at 10.a.m in the college auditorium. On the day, We had invited our Secretary Rev.Sr.Dr.T.Nirmala, the Principal Dr.R.Arokiadass, the Vice-Principal Sr. Punitha Jilt to preside over the function. The program started with prayer which was conducted by the students. Subsequently, our Secretary and the Principal motivated and delivered Teacher's Day wishes to the staff members. Staff members were participated in the games organized by the students and won prizes. Students themselves performed mimes and dances. Finally, our secretary distributed gifts to the staff members, and program concluded with the National Anthem.

DIWALI CELEBRATION AND PONGAL SONG DEBATE:

A special Diwali and Pongal song debate was conducted by Ananda Bhairavi Band on 23.09.2023 from 10.00 am to 4.30 pm, at college auditorium. Tamil Film Comedian Mr. Ramesh Khanna and many speakers participated in this debate. Dr. D. Om Murugadhasan, HOD/MECH

of our college participated as a special speaker. Students of all the departments and staff members attended and enjoyed the debate.

SECRET SANTA CELEBRATION

The Secret Santa christmas function was celebrated on 22.12.23 at 2.30 p.m in the Conference Hall. The Mechanical Department beautifully decorated the venue.

The program started with prayer conducted by the ECE Department. Subsequently, the Mechanical Department revealed the secret friend one by one. All the Teaching and Non- Teaching staff members shared their gifts to their secret friend openly. During the program, staff members participated in various events and dances. On this wonderful occasion our secretary organized a game for staff members and distributed gifts those who won the game. Finally, our Secretary, Principal and Vice- Principal delivered Christmas wishes to the staff members and Christmas Cake and Gifts were distributed to all.

CHRISTMAS CELEBRATION

Christmas is the festival which inspires the spirit of sharing and caring. Christmas celebration was held on 23.12.23 by the Students in St. Anne's College of Engineering and Technology, Panruti. The program started at 10.30 a.m in the College auditorium with prayer song. Our Rev. Sr. Dr. T. Nirmala Secretary, the Rev. Fr. L. Arockiadass Chief Guest, Dr. R. Arokiadass Principal, Rev. Sr. Punitha Jilt Vice-Principal were present. Lucky game was conducted by providing chocolate with secret numbers. Then, 100 Lucky winners were selected from the students and staff and gifts were distributed by the kutties. The students performed various cultural events on this wonderful occasion.

The program ended with cheerful Christmas greetings by our Secretary and Principal. Finally, the dazzling entry of Santa Claus added to the joy and excitement of the students. The boundless joy of celebrating the festival was visible on the faces of all the students. It was a joyous and amusing program for everyone.

INDEPENDENCE DAY

The 75th Independence Day was celebrated with pomp and show at St. Anne's College of Engineering and Technology, Panruti on 15th August, 2023. The Chief Guest were our Secretary Rev. Sr. Dr. T. Nirmala, the Principal Dr. R. Arokiadass, Parent Teacher Association president, Mr. Kumaravel and the Vice-Principal Sr. Punitha Jilt.

The day's program began with Thamizhthai Vazthu. The president Mr. Kumaravel hoisted the National Flag. Then, the Secretary and the Principal delivered impressive and inspirational speeches to the students. They encouraged students to become great freedom fighters like Mahathma Gandhi and Jawaharlal Nehru emphasizing the sacrifices made by those who gave up their lives for the freedom of India. The program concluded with National Anthem followed by the distribution of sweets to the students and staff.

REPUBLIC DAY CELEBRATION

SANCET celebrated the 75th Republic Day with dignity and joy on a pleasant morning of 26th January 2024. The Chief Guest of the event Mr. J. George Fernandaz along with the Secretary Rev. Sr. Dr. T. Nirmala, the principal Dr. R. Arokiadass and Vice-Principal, Sr. Punitha Jilt hoisted the National Flag and sung the National Anthem with great pride and zeal.

An inspiring speech was delivered by the Chief Guest, where he spoke of our country's advancement today in all the fields and encouraged all the students to contribute towards the same. Further, our Secretary and Principal conveyed a message of peace and harmony to the coming generation of India

Finally, the celebration was concluded with vote of thanks by the student of the college followed by the distribution of sweets to the audience.

PONGAL CELEBRATION

SANCET celebrated the Tamil harvest festival pongal with great joy in the college. The Secretary Rev. Sr. Dr. T. Nirmala, the Principal Dr.R. Arokiadass, the Vice Principal Sr. Punitha Jilt, HOD'S and Staff joined the celebration along with our students who had made arrangements to cook a delicious sweet Pongal in the traditional way. The sweet Pongal was distributed to all the staff members and students making it a memorable event at the start of this New Year 2024.

GRAPHENE SUPERCAPACITOR

Ms. S. Bharani
Final Year
Department of Electrical and Electronics Engineering
St. Anne's College of Engineering and Technology

Storage of charge is one of the important phenomena. Some of the storages Devices include Batteries, cells and capacitors and super capacitors. Batteries store energy in a chemical reaction. Batteries have a high energy density but low power density (slower energy discharge), making them suitable for long-term applications where a consistent, slow release of energy is needed. Batteries store and release energy electrochemically. Whereas Supercapacitors store energy electrostatically on their electrodes surfaces. Supercapacitors have a lower energy density but a higher power density (faster energy discharge). As a result, they cannot store as much energy as batteries but can be charged and discharged much faster. This property makes them more suitable for applications. Compared to an electrochemical battery, there is a significantly lesser amount of energy stored per unit weight.

Many believe graphene would come in and make it possible for supercapacitors to compete with batteries in energy storage, plus be able to get fully charged in seconds. Graphene's superiority over activated carbon for the electrodes of supercapacitors is not in surface area and the resulting higher storage capacity, but in its conductivity. Also, graphene's ability to be structured and scaled down, unlike other supercapacitor materials, means that it could be used in computer processing units (CPUs) and integrated circuits (ICs).

Carbonaceous materials, particularly activated carbon and graphene, are common active materials, with graphene becoming increasingly popular due to its higher electrical conductivity. However, graphene is more difficult and expensive to produce and typically has a lower theoretical surface area than activated carbon, making it challenging to use in supercapacitors at industrial scales. Because graphene has been at the center of active material innovations in supercapacitors, it's important to understand the various factors working against its adoption.

ELECTRIC VEHICLES GRID INTEGRATION

Mr. S. Gnanaraj
Third Year
Department of Electrical and Electronics Engineering
St. Anne's College of Engineering and Technology

Electric cars (EVs) and hybrid electric vehicles (HEVs) provide lower running costs, increased fuel efficiency, and environmental benefits. In Assessment of Light-Duty Plug-In Electric Vehicles in the United States, 2010-2019.Argonne National Laboratory (ANL) predicts that energy generation for the operation of an all-electric vehicle creates 53% less pollution than tailpipe emissions from the operation of a gasoline vehicles.

By creating battery technologies that can lower the cost of electric vehicles while simultaneously enhancing their range, dependability, and safety, Argonne energy storage research is advancing the future of electric vehicles. The Advanced Mobility Technology Laboratory (AMTL) at Argonne National Laboratory offers cutting edge resources for studying electric and hybrid vehicles. The Automotive Manufacturing Technology Laboratory (AMTL) facilitates the evaluation of vehicle technology and research endeavors that yield vital information for the advancement and marketing of cars of the future. Argonne engineers expose critical data on performance, fuel economy, energy consumption, and emissions production using the AMTL's two-wheel drive (2WD) and four-wheel drive (4WD) chassis dynamometers and cutting-edge monitoring tools.

Integrated EV smart charging can increase grid stability by making better use of renewable energy, lowering peak electricity demand, and supporting and sustaining power quality while still satisfying the demands of EV drivers. Researchers employ smart-charge management controls to increase their understanding of EV charging energy and power requirements, as well as to find any flexibility in those charging requirements that may be used to support energy demand shifts across extended vehicle dwell times. Developing smart-charge management systems that take advantage of this flexibility will be crucial in mitigating the grid consequences of EV charging while speeding up the electrification of the transportation sector.

PRINTABLE SOLAR PANEL

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In recent years, the development of printable solar panels has sparked significant interest and excitement within the solar industry. This groundbreaking technology has the potential to revolutionize solar energy production, offering new possibilities for flexible and lightweight solar modules. This article will delve into the world of printable solar panels, understanding their concept, manufacturing process, efficiency, commercial viability, and potential applications. Let's explore the future of solar energy with printable solar panels.

Printable solar cells operate on the principle of photovoltaic (PV) conversion. These cells consist of multiple layers of semiconducting materials that absorb sunlight and convert it into electrical energy. By leveraging inkjet or other printing techniques, solar cells can be precisely deposited onto substrates to form printable solar panels.

Printable solar panels offer a glimpse into the future of solar energy generation. With their lightweight design, flexibility, and customizable nature, they hold the potential to revolutionize the way we harness solar power. While still in the development phase, progress in efficiency, manufacturing processes, and commercial viability brings us closer to a future where printable solar panels play a significant role in achieving a sustainable and renewable energy landscape. As research and development efforts continue, printable solar panels are poised to contribute to a greener, more accessible solar energy future.

TECHNOLOGY SHOULD IMPROVE YOUR LIFE NOT BECOME YOUR LIFE

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The Stream of Engineering ensured a bright path ahead to ECE pursuers. Technical Education has become increasingly important during the last few decades. Innovation has played a crucial role in the integration of robotics by driving advancements in technology, materials, algorithms, and design.

AI enables robots adapt to changing environments, learn from data, and improve their performance over time. Hardware and computational architecture to create intelligent physical systems Designing control systems for non-robotic systems. Generative AI and humanoid robots gained a lot of attention this year, traditional robotics applications have also advanced. Picking robots and mobile robots were still chugging along in previous years.

ECE professionals are in high demand across various industries, including telecommunications, semiconductor manufacturing, information technology.
Future robots would be better suited to more difficult and dynamic activities if they could learn new processes, adapt to their environment, and change their behavior. Employment opportunity range from industrial automation. In short, robots could not exist without ECE.

RASPBERRY - Pi
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Raspberry Pi-based intelligent assistive reading for the blind is an essential life skill in today's society, where printed documents such as reports, bills, bank-related files, classroom worksheets and prescriptions for pharmaceuticals are ubiquitous. The primary objective of this research is to convert real text to speech and develop blind collision avoidance. It involves capturing an image with a Raspberry Pi camera, processing it with image processing, and then reading it aloud. A Raspberry Pi 3B+ board is used to control this trolley and an artificial neural network predicts the text in the captured image. The Pi camera and ultrasonic sensors provide inputs regarding obstacles in the path to the Raspberry Pi board, which controls the direction of the trolley accordingly. Using a machine learning algorithm, the camera can distinguish between obstacles and people through image processing, while ultrasonic sensors detect obstacles beyond the camera's line of sight. A home intelligent access control system based on Raspberry Pi 4B is designed for humanized functions such as voice broadcasting. The system has three unlocking modes: remote unlocking, password unlocking and face unlocking. Extensive research is being conducted in the field of home security, which is a turning point in the industry, where we connect common objects to share data for our development. The risk of fire hazards has also increased significantly, causing a great deal of damage to nature, lives, and property and resulting in a massive economic loss. A camera-based fire alert system will be immensely helpful in detecting fires in commercial buildings, industries, establishments, and public places in order to reduce and eventually eliminate fire accidents

AUTO-ML

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We live in an information-driven world where everything we see on digital platforms is an analytical output of our previous interactions with the internet. Data Science helps provide tailored services to all industries aiming to provide excellent customer experience.

Integrating AI and ML into businesses helps in automation. It assists companies in making the most out of data using ML algorithms and defining strategies to implement experimental and full-scale operations.

The augmented analytics trend will allow enterprises to automatically deliver augmented human intelligence to extract valuable insights from the data.

Ethical AI and responsible data science will be a hot topic anytime soon as privacy and ethical concerns continue to rise. Experts develop AI systems with transparency and free-form biases to ensure user data aligns with data privacy regulations.

Auto-ML– Automated machine learning (Auto-ML) platforms are gaining popularity and taking over various aspects of the data science lifecycle. These platforms automate tasks such as data sourcing, feature engineering, conducting machine learning experiments, evaluating and choosing the most effective models, and deploying them into production environments.

TECHNOLOGY UPGRADATION IN AI

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1. Deep Learning Models: Deep learning has revolutionized AI by enabling the development of complex neural networks with multiple layers. Technological upgradation in this area involves the advancement of deep learning models, such as convolutional neural networks (CNNs) for image recognition and recurrent neural networks (RNNs) for natural language processing. Improvements in model architecture, training algorithms, and optimization techniques enhance the accuracy and efficiency of AI systems.

2. Natural Language Processing (NLP): NLP enables machines to understand and generate human language, enabling applications such as chatbots, virtual assistants, and language translation. Technological upgradation in NLP involves the development of advanced language models, such as transformer models like Digital Processor (Generative Pre-trained Transformer), which have improved language understanding and generation capabilities. Additionally, advancements in sentiment analysis, named entity recognition, and language generation contribute to more sophisticated NLP applications.

3. Reinforcement Learning: Reinforcement learning is a branch of AI that focuses on training agents to make decisions based on trial and error. Technological upgradation in reinforcement learning involves the development of advanced algorithms, such as deep Q-networks (DQNs), that enable more efficient and effective learning from interactions with the environment.

4. Explainable AI (XAI): Explainable AI aims to improve the transparency and interpretability of AI systems, addressing the "black box" nature of some deep learning models. Technological upgradation in XAI involves the development of techniques and methodologies to explain the decision-making process of AI models.

5. Edge AI: Edge AI refers to the deployment of AI algorithms and models on edge devices, such as smartphones, IoT devices, and autonomous vehicles, instead of relying solely on cloud-based processing. Technological upgradation in edge AI involves the development of lightweight and efficient AI models that can run directly on edge devices with limited computational resources.

6. AI Ethics and Bias Mitigation: As AI systems become more pervasive, addressing ethical concerns and mitigating biases is crucial. Technological upgradation in this area involves the development of frameworks and methodologies to ensure fairness, transparency, and accountability in AI systems.

GREENSTONE

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Greenstone, this name creates a natural stone while its eco-friendly attributes. It suggests durability and environmental consciousness, making choice for recycled plastic bricks. In this concept, we made a brick as eco-friendly as recycle the plastic waste to form the bricks.

Preparation:

The first step is to collect plastic waste from various sources, such as households, industries, and etc., Then the collected plastic waste are cleaned, sorted, and cut or shredded into small pieces. The cut plastic is mixed with additional compounds like sand, cement, and water to create a kind of mixture. The additional compounds help improve the mechanical properties of the final product. The plastic-cement mixture is then moulded into the desired shape, as a brick. After moulding, the plastic waste bricks are left int to a dry state for a specific period, depending on the type of additional compounds used and the strength of the final product. Once the bricks are dried, they undergo quality control checks and testing stage to ensure they may use as the standard product for construction works.

TECHNOLOGY UPGRADATION

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Technology upgradation is an initiative that encourages entrepreneurs to adapt to modern technology to enhance their competitiveness in the global market.

DEVELOPMENT STRATEGY ISSUES IN OUR COUNTRY'S ELECTRONICS INDUSTRY.

In accordance with our development priorities, we will concentrate financial and material resources on the technological upgrading of existing enterprises and research institutes and integrate this work with technology imports. During the seventh five year program period ,we will use technology imports and technological upgrading to basically modernize research and production methods in the four development priority areas.so that they will develop their industrialized mass production capability on the basis of new technology, shorten the R&D cycle, and improve productivity, to this end ,we must orient science and technology toward production and application, and ensure that production, we also need to greatly intensify research, improve R&D infrastructure, and closely integrate research.

INITIATE A NEW PHASE IN THE ELECTRONICS INDUSTRY IS SERVICES FOR THE FOUR MODERNIZATIONS:

The electronics industry needs to steadfastly serve traditional industries by providing them with modern electronic equipment. so that they can accelerate their place of technological upgrading and develop production and improve their economic performance on the basis of this new technology and thereby help the entire national economy to take off. In order to better provide services, the electronics industry must accelerate its technological progress and genuinely play a leading role in the new technological revolution. We must ensure that this emerging industry and traditional industries are closely integrated, support and reinforce each other, and make common progress.

ACCELERATE THE DEVELOPMENT OF OUR COUNTRY'S COMPUTER INDUSTRY:

The guiding ideology and principles for developing the electronics and computer industries are serve the overall objectives for economic development by the end of this century as set out the party's Twelfth national congress, the key strategic development priorities of the national economy and national defense, and the technological upgrading of tradition industries.

The main orientation for computer R&D, production and application from now until 1990 is to extensively use computers, particularly microcomputers digitize manufacturing process controls, engineering design, economic management and all kinds of electro mechanical equipment; ensure development of key national defense projects and weapon system, expedite the upgrading of national defense equipment set up economic information systems at all levels: and provide government agencies at levels and all level with modern business tools.

PROMOTE RAPID AND BALANCED DEVELOPMENT OF OUR COUNTRY'S ELECTRONICS INDUSTRY:

The state Economics commission has set clear objectives and requirements and we must conscientiously implement them on the basis of conditions in the electronics industry. We need to increase both production and economic performance. We must first of all rely on technological progress and successfully carry out technological upgrading and innovation in enterprising addition, we need to pay attention to developing talent and promoting education to universalize electronic technology such as computers.

We need to earnestly seek to turn enterprises losses into profits. The government has prescribed that by 1984,35% of enterprises operating at a loss must rectify this situation and all industrial enterprises operating at a loss must rectify this profit*ing* the electronics industry, we should meet this target ahead of schedule.

NEW CHAPTER IN OUR COUNTRY'S COMPUTER INDUSTRY

We are currently implementing reform of the existing management system for our computer industry. On the basis of streamlining administration and de gating autonomy to enterprises, we are breaking down departmental, reginal and ownership barriers to further adjust the industrial structure and product mix. We should also create consortiums of various kinds in large and medium -sized cities, centered on key enterprises, and led by brand name products. we should coordinate with the government's overall plans for create a number of computer research and manufacturing centers, which have the power to make their own operational decisions, intimately in regrate R&D, production, education and services make the most of their respective strength.

CONCLUSION:

Technology has become a crucial part of our society. without technological advancements, so much of our everyday lives would be drastically different from now.

TECHNOLOGICAL UPGRADATION
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Technology is champing the way organizations and their employees need to accomplish their work. Empirical evidence on this topic is scarce. The aim of this study is to provide an overview of the effects of technological developments on work characteristics and to derive the implications for work demands and continuous vocational education and training (CVET). the following research questions are answered: what are the implications thereof for continuous vocational education and training? Technologies defined as digital, electrical and mechanical Tools that affect the accomplishment of work tasks, are considered in various disciplines, such as sociology or psychology. A theoretical framework based on theories from these disciplines (eg: up skilling, task-based approach) was developed and statements on the relationships between technology and work characteristics, such as complexity, autonomy, or meaningfulness, were derived. A systematic literature review was conducted by searching databases from the fields of Psychology, Sociology, Economics and educational science. Twenty-one studies met the inclusion criteria. Empirical evidence was extracted and its implications for work demands and CVET were derived by using a model that illustrates the components of learning environments. Evidence indicates an increase in complexity and mental work, especially while working with automated systems and robots. Manual work is reported to decrease on many occasions. Workload and workflow interruptions increase simultaneously with autonomy, especially with regard to digital communication devices. Role expectations and opportunities for development depend on chow the profession and the technology relate to each other, especially when working with automated systems. The implications for the work demand necessary to deal with changes in work characteristics include knowledge. About technology, openness's toward change and technology, skills of safe- and time management and for further professional and career development. Implication for the design of formal learning environment include that work demands mentionable must be part of the content of trainings, the teachers/trainers must be equipped to promote those work demands and that instruction models used for the learning environments must be flexible in their application.

INTRODUCTION:

In the face technology-driven disruptive changes in societal and organizational practices, continuous vocational education and training (CVET) lacks information on chow the impact of technologies on work must be considered from an educational perspective (Cascia and Montealegre,2016). Research on workplace technologies. Typically, are concerned with one out of two areas of interest: first, economic and sociological research repeatedly raises the question on technological mass unemployment and societal inequality as a result of technological advances brynjol and MCAfee,2014) and second, management literature questions the suitability of prevailing organizational structures in the face of the so-called: "fourth industrial revolution" (schwab,2017),taking visionary leaps into a fully automated future of digital value creation.

Theoretical framework:

A conceptualization of technology and theoretical assumptions on relationships between technology and work characteristics will be outlined. Research within disciplines, such as Sociology,,Management,,,Economics, Educational Science, and Psychology was considered to inform us on the role of technology within work. Completing this section, on overview of the various components of learning environments is provided to be used as a basis for the analyses of the empirical evidence

Outlining technology and recent technological developments:

A clear definition of technology often clacks in studies what may be due to the fact the word itself is an "equivoque" and a "repository of over lapping inconsistent meanings "A suitable definition can be provided by analysing what technologies actually "do" the primary goal of technology at work tasks, defined as "a unit

of work activity that produces output "technology can therefore be defined as mechanical or digital devices, tools or systems. They are used to replace work tasks or complement the execution of work tasks. According to this view, technology is conceptualized according to "its status as tool". alternatively, technology is understood as the product of a specific historical time and place, "reflecting a stage of development within a predefined historical process or as the "newest or detest instrumental products of human imagination ", reflecting its nature that is rapidly replacing and" outdating "its predecessors. The definition according to the "instrumentality" is particularly" suitable for this research, as the interest focuses on induvial level effects of technologies and its use for accomplishing work, Therefore, the technology needs to be mentioned explicitly (e.g." robot" instead of" digital transformation") and described specially in the form with which the employee is confronted at the work place. Different definitions may reflect different perspectives on the role of technology of society and work. These perspectives in the form of paradigmatic views include philosophical and cultural beliefs as well as ideas on organizational design and labour relations. They differ with regarded to the complexity in which the social context is believed to determine the impact of technology on society

Components of CVET:
In order to formulate the implications for CVET of the studied effects of technology on work characteristics, a frame work with the different components of CVET is needed. the objective of the CVET system and continuous education is to qualify people by supporting the acquirement of required competences, for instance by providing training. competences refer to the potential capacity of an individual in order to successfully carry out work tasks. They contain various components such as work-related knowledge and social skills (eg., Sonntag,1992). competences are considered here as "the combination of knowledge, skills and attitude, in relation to one another and in relation to jobs

ELIGIBILITY CRITERIA:
Concerning technology, variables had to express the direct consequence or interaction with a certain technology. And indirect psychological states that conceptually resulted from the presence of technology. Regarding work characteristic variables had to describe work-related aspects associated with our conceptualization of work characteristics.
Regarding the direction of effects, only studies that focused on the implementation or use of technologies for work-related purposes were included. Studies were excluded, if they particular designs or features of technologies and evaluated them without considering effects on work characteristics , regarded technology not as specific tool but an abstract process were published before 1990 due to the fact that the extent of usability and usefulness of technologies before that time should be substantially limited compared to today and investigated the impact of technologies on society in general without a specific relation to professional contents(e.g. Mc clure,2018)

Autonomy
There is mixed quantitative evidence on the relationships between computer work and autonomy. The amount of computer is positively related to autonomy, while technological pacing is negatively related to autonomy. Working within automated system is negatively to different measures of autonomy. ICT use shows mixed relationships with job decision latitude depending on ICT features that describe negative or positive effects of use.

Relationships between technologic and work demands:
Three sources are considered for the identification of work demands: work demands national in the studies on technology and work
Characteristics, work demands mentioned by the supplementary studies found during the database search and work demands analytically derived from results.

Discussion:

This systematic literature review aimed at identifying effects of new technological developments on characteristics of work demands and determining their implications for the design of formal CVET learning environments.

Limitation and implication for future Research:

Regarding the search methods, the use of database is challenging when investigating technologies. Technological and technical terms are wides pressed outside the research in which they are regarded as the objects of investigation therefore, it produces a large number of studies that concern technology with diverse research objectivise that can be difficult to sort.

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TECHNOLOGY UPGRADATION
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Technology has become an impact ant part of life in the world. Today people have SC become so dependent on technology that they cannot imagine life without it.. Technology today is important and useful in all areas of human life. It has changed the way humans live. Technology has revolted the field of communication and transportation, making our human liver easier and more comfortable technology has made our lives so easy and provided us with so many comfortness that we would never have imagined before. Due to technology. It is playing an important role in all areas like transpiration, COMM important communication, connectivity, education and health. Our social layer has changed a lot due to technology. However, increasing technology is also of having adverse effects on the environment and social environment. Technology has revolutionized the field of communication and transportation, making important role in all areas like transportation communication. Technology is the practical application of science that improves the quality of life where as science is a system approach that uses observation and experimentation to gain information and develop abilities. Technology is a product of systematic research which is what science is technology development usually follows scientific process and the lotter is just a logical consequence of the farmer, so science and technology go hand in hand. These two describe the process in nearly every field, infrastructure development communication, define, initialization etc. Because of advancements in science and technology the world. Everything we use such as television, washing machines and bicycles technology.

CONCLUSION:

Science is related to every aspect of our life we are counted among the best countries in the world on the buds is of science and various technology.

It is only through science that78 we have been able to know our past and only through science and technology we can know our future.

"Remember, technology is a tool that can be used responsibly and in moderation"

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TECHNOLOGY UPGRADATION
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INTRODUCTION:

Technology upgradation is an initiative that encourages entrepreneurs to adapt to modern technology to enhance their competitiveness in the global market.

Role of Technology upgradation:

Micro, small and medium enterprises (MSMES) play a vital role in the growth of an economy, both the central and state government offers various technology upgradation funds and schemes for MSMES to upgrade their business and grow especially by adopting new technologies.

Benefits of MSMES in Technology upgradation:
1. Increased energy efficiency.
2. Adoption of renewable energy sources
3. Reduce production costs.

Increase energy efficiency:

A significant outcome of technology upgradation in small scale companies is increased energy efficiency.

Adoption of renewable energy sources

Global warming is reduced via energy efficiency. More than 90% of all energy used today comes from fossil fuels.

Reduce production costs:

A significant decrease in production costs can achieved through adoption and upgradation of new technology resulting in energy saving and efficient management.

CONCLUSION:

The main goals of technology upgradation are to adopt a clean development mechanism and remain competitive in the world.

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