SWARNAKSHARA

Editorial

Dear Readers

The growth and existence of an institution is recognized by means of the quality evaluative parameters like accreditation and certification by renowned national & international agencies. In this process, NBA peer team visited Swarnandhra College of Engineering & Technology on 21st, 22nd & 23rd June 2024.Swarnandhra College of Engineering & Technology strives to bring out the richness of Indian culture by conducting events such as rangoli in the eve of pongal in the campus.Rangoli is an intricate art evolved in Indian tradition over centuries, capturing the essence of diverse regions and celebrating occasions with its kaleidoscopic brilliance.Organizing such events helps students to remain in close touch with their culture. Rangoli competition provides a platform to the students not only to outshine their creative skills but also allow them to express their artistic abilities and creativity. Participants of this event work in groups, which leads to progress teamwork, cooperation, and effective communication.

Republic Day symbolizes India's transition into a republic country;this day addresses the issues of democratic country, liberated from colonial-era government. The celebration of Republic Day exhibits India's diverse heritage, fostering a sense of pride and unity among its citizens, instilling patriotism and pride. SCET celebrated 75th republic day in the campus on 26th Jan 2024. The Chief Guest Dr. Achyuta Ambarish Mokkarala, Sub-Collector, Narsapur addressed the students and insisted to develop competitive spirit in them.

Swarnandhra aims in pooling diverse skills and perspectives of its students. Clubs create a platform to the professional students to accelerate the level of innovation by centering a collaborative ecosystem approach in building, testing and innovating. It also helps to enable technology agility, typically offering multiple ways to solve problems and communities can evolve software more effectively. In this connection, it initiated clubs such as Open Source Club (SOSSC) in the premises.

The integration of Industry into the operational fabric of Indian industries is poised to amplify the prevalence of AI-powered tools, Automation and Big Data. This disruption leads to dependencies in the domains of Cloud Computing, Data Analytics and Cybersecurity, paving the way for an escalated demand for proficient individuals well-versed in these emerging technologies.To create such industry-ready talents and generate more employment Swarnandhra organizes Industry Skill Integrated Enablement Program to the budding professionals in the premises.Faculty Development Programmes were being organized in the college premises in various departments on different topics such as benefits of outcome based education, Innovative teaching methods etc., to equip teachers with skills and knowledge, which are essential to be a resource person to felicitate knowledge to the young technocrats.

Guest Lectures invokes visibility, a hub for networking, and a stage for personal growth of the student. These lectures provide students with alternative perspectives and opinions that can reinforce the teachings of the instructor. Our management often invites guest lectures by eminent personalities in every department.Besides imparting quality technical education to the students the management of SCET has its own place in turning its students as ideal citizens. Our management strives to turn its students sensible by celebrating and organizing events World Water Day, International Women's Day, Yoga Day, Farewell Day etc. in the premises.

As a part of NSS activity NSS unit of our college organized mega camp 'Healthy Youth for Healthy India' at Turuputallu village from 16th to 22nd Feb, 2024 and organized different activities such as blood tests, dental camp, eye camp, voter awareness programme, mass plantation, plastic against usage of awareness programme and traffic awareness programme.

We express our profound gratitude to the management, the Principal and all the faculty members who have extended their support in releasing this issue of "Swarnakshra". We eagerly anticipate your suggestions and queries. Please do meet us at 'Swarnakshra' @ rediffmail.com.

- Dr. Zehrabi

PRINCIPAL'S DESK

An educational institute plays a crucial role in shaping a student's future. Not only does this include the provision of education and ensuring learning, but also moulding the character, morals, and value systems of the student as well. An educational institute provides the foundation needed to view the world as a limitless space providing innumerable opportunities to shine.

While we are determined to provide seamless learning targeted towards excellent academic performance through the incorporation of the latest teaching approaches, we also ensure that we are actively working on the physical, social, emotional, and spiritual training of our students. Our faculty are professionally equipped to develop, adapt and modify curriculum content, pedagogy and assessment which suit the needs and aspirations of our students. We work towards a holistic, pragmatic, integrated, student-centred educational system that helps to improve the creativity, critical thinking, and problem-solving skills of our young learners to equip them for the ever-changing employment dynamics and global ecosystems.

I look forward to work together to support every student and wish all our students a happy and successful journey of learning!

VISION To produce global Competent, ethical and dynamic professionals by creating Centre of Excellence in Technical Education for societal empowerment.

MISSION
- To Provide quality Education with Knowledge and skills for rural and urban students.
- To Collaborate the industries with academia for empowering the students to meet global standards.
- To induce highly ethical entrepreneurship in young minds with good leadership quality for the society.
- To enhance the institution in Research and Development by human intellectual capability.

ACHIEVERS' DAY CELEBRATION-2024

DEPARTMENT OF CIVIL ENGINEERING
BUILDING THE FUTURE, TODAY

Vision

❖ To make the students strong in both technical and practical aspects to meet the national and international requirements

Mission

❖ To facilitate the graduates in acquiring technical exposure to create innovative ideas through state of the art curriculum and conductive learning environment.

❖ To provide quality education for successful career and higher studies in Civil Engineering that emphasizes academic and technical excellence in profession and research, effective communication, team work and leadership to meet the challenges of the society.

❖ To improve the professional skills of the rural students to fulfill the present industry and society requirements.

New trends

Road safety, A myth, do we deserve the status of Developed nation, killing large number of Road users every day? A close view of Car ramming from rear side of a parked truck, near MUNAGALA, Morning reported accident/ gross irregular/ irresponsible enforcement agency? A shame, when some of our lawmakers are showcasing DWARAKA EXPRESSWAY is remarkable achievement that our NH is equal to Highways in any Developed nations?

FACULTY FOCUS
Facuty achievement

Dr. A. Venkata Krishna was conferred with doctorate degree for his work on An experimental study on strength and durability properties of ceramic waste concrete.

FDPs Attended by Faculty

Faculty name	Name	Organized by
Dr.A.V Krishna	PALS-VLAB	NITK SURATHKAL at 10th APR 2024
Dr.A.V Krishna	Maintenance and Repair of concrete structures	NPTEL Jan –Apr 2024
Dr.V Gajendra	PALS-VLAB	NITK SURATHKAL10th APR 2024
D. Satish	PALS-VLAB	NITK SURATHKAL10th APR 2024
G.Venkata Ramana	PALS-VLAB	NITK SURATHKAL10th APR 2024
G.Venkata Ramana	Artificial Intelligence	NITTTR-CHENNAI 29 Jan to 2 Feb 2024

Academic Toppers

P.Sai Vinnela
VIII Sem.
20A21A0125
SGPA: 9.20

V.Hema
VI Sem.
21A21A0138
SGPA: 9.41

G.Rugneswari
IV Sem.
22A21A0110
SGPA: 8.65

Department Activities
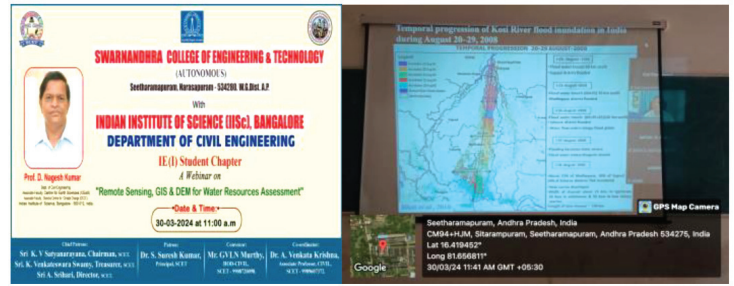
A webinar on the topic "Alternative Eco-Friendly Technologies for Base/Sub-Base Layer In Pavements" was conducted on 16th March 2024.

A webinar on the "Remote Sensing, Gis & Dem for Water Resources Assessment" was conducted on 30th March 2024.

Students' Focus
Placements

13 Students got placed in various companies such as KEC, Vamps etc.

Alumni's Voice

I feel fortunate to be a part of Swarnandhra College of Engineering and Technology as I acquired good knowledge by the support of faculty which helped me to get a job in irrigation department.

Donga Hemanth
Site Engineer
(Batch 2017-21)

Student's Voice

I feel proud to be a part of Swarnandhra College of Engineering and Technology. I am thankful to the management, for providing opportunity which makes me to face interviews.

Chaganti Manasa Lakshmi
Reg.No. 19A21A0107

DEPARTMENT OF MECHANICAL ENGINEERING
WE MOULD THE WORLD

Vision

❖ To educate and enrich effective and responsible mechanical engineers to fulfil the needs of industry and society.

Mission

❖ To lay a strong foundation of technical knowledge by concentrating on fundamental concepts of mechanical engineering.

❖ To develop creative thinking and innovative methods for solving complex engineering problems.

❖ To develop team spirit, leadership and professional qualities.

❖ To strengthen research abilities in collaboration with industry.

New Trends in Technology
Sustainable Design - Tackles Climate Change

Sustainability has become a pressing concern for society, with climate change threatening massive disruption. Mechanical engineers will play a key role in developing cleaner technologies to reduce environmental impacts. Replacing fossil fuel power with renewable energy will require mechanical engineering expertise. Improving solar panels, advancing wind turbine designs, building utility-scale batteries and transitioning to electric vehicles are all critical focus areas today.

Faculty Focus
Achievement Faculty

Mr P. Satyanarayana Raju was awarded with Ph.D. Degree in Mechanical Engineering for completing his research on "Strength and Thermal Analysis of Sandwich Pipe for Deep Water Applications", from GIET University, Gunupur.

FDP/Seminars/Workshop/Webinar Attended by Faculty

S. NO	Name of the staff	Total number of Seminars/Workshop/ Webinar/ FDP
1	Dr.Francis Luther King M	3
2	G Veerendra Kumar	3
3	Dr. R.Lalith Narayana	1
4	Mr.CH Harish Kumar	2
5	Mr B Srinivas	1
6	Mr B Mahesh Krishna	4

Important Events in the Department

❖ Industry Skill Integrated Enablement Program in Automotive domain using Catia and Ug Nx was conducted from 28th Feb to 8th Mar 2024.

❖ CRT training from 27th Mar to 15th April 2024

❖ National Science Day on 28th Feb 2024.

❖ Fresher's day on 17th Feb 2024

Industry Skill Integrated Enablement Program in Automotive domain using Catia and Ug Nx

Farewell party in the premises

Students' Focus
Placements

32 students got selected in Indure Pvt. Ltd and Desein Pvt. Ltd

DEPARTMENT OF MECHANICAL ENGINEERING
WE MOULD THE WORLD

Academic Toppers

K. Sri Naga Kasiviswanadh
IV SEM
23A25A0318
SGPA : 9.18

Yerigala Obul Reddy
IV SEM RBT
22A21A6422
SGPA: 8.47

Gubbala Bindu Madhavi
VI SEM RBT
21A21A6411
SGPA: 9.22

Nippuleti Teja Sri
VI SEM
22A25A0335
SGPA : 9.33

Ainapudi Surendra
VIII SEM
21A25A0301
CGPA: 9.18

Galavelli Sumanth Naidu
VIII SEM RBT
20A21A6406
CGPA:8.63

Students' Achievements

- G. Bindu Madhavi, M. Venkata Manasa and M. Sindhuja students of 3rd B.Tech Robotics secured the First prize in Project Expo conducted by Shri Vishnu engineering college for women's BVM.

- B Bhargavi , M Bhavani and G Yugala students of 3rd B.Tech Robotics secured the Second prize in Project Expo conducted by Shri Vishnu engineering college for women's, BVM.

- K Hemalatha, V AnjaniDurga and M Bindu students of Ist B.Tech Robotics secured the First prize in ROBO race competition in the event SANKETA 2K24 organized by SRKR engineering college, BVM.

- Third year Mechanical students secured the Second prize in DRONE competition in the event SANKETA 2K24 organized by SRKR engineering college BVM.

Robotics students receiving the First prize in Project Expo at SVECW, BVM.

Robotics students receiving the Second prize in Project Expo at SVECW, BVM.

Students receiving prize in Project Expo at SRKR, BVM

Alumni's Voice

I am delighted to be a part of Swarnandhra, which offeres ample opportunities for learning.It also designs curriculum which helps to get insight into latest technological trends.The laboratories are equipped with latest technologies. The college conducts various training programs which benefit the students for their career.
Devarapu Krishnaveni
Batch (2007-2011)
Design Engineer,Tower International, Hyderabad

Student's Voice

I feel very happy to complete my studies in this college as the department has well equipped laboratories updated with latest technologies. Faculty members also teach us with practical examples which helped me in developing my practical Knowledge.

Vanka Rakesh
Reg. No. 20A21A0371

DEPARTMENT OF INFORMATION TECHNOLOGY
We Accelerate the World…We are the future of the Nation

Vision
- To be a premier centre in Information Technology education, research and a source of qualitative, innovative, successful software professionals who cater the needs of industry and society.

Mission
- To provide outcome based education through well- designed curriculum, innovative teaching, collaborative learning and industry interaction.
- To promote state-of-the-art research facilities and consultancy in the thrust areas of Information Technology.
- To impart the necessity of continuing education in order to grow proficiently in the focused areas.
- To inculcate professional behavior, leadership qualities and ethical values to serve the society.

New Trends- GEN AI
Artificial Intelligence is not a new concept, but it is constantly evolving. Generative AI, in particular, is gaining prominence. Its the technology capable of generating text, images, sounds, animation, 3D models, or other media types, using generative models. The popular examples of Generative AI are Chat GPT, Google-Bard, Dall-E, & Git Hub Copilot. A report by Bloomsberg states that the generative AI market is estimated to reach $1.3 trillion by 2032.

Faculty Focus - Publications

Faculty name	Designation	Published under	Volume/issue/date
Dr.RVVSV Prasad	Prof	IJISAE	ISSN:2147-67992
Mrs. R.UmaArunaDevi	Asst.Prof	ICDT	ICDT61202.2024.10489292

Workshops Attended by Faculty

Faculty name	Designation	Workshop/Fdp	Organised by	Date
Mr.CH.R.K.Raju	Asst. Prof	Block Chain Technology	Ramraoadik Institute Of Technology	8th - 12th JAN, 2024

Certification Courses Completed by Faculty

Faculty name	Designation	Certification course	Organised By	Date
Dr.RVVSV Prasad	Prof	Recommender Systems	NPTEL	April 2024
Dr.RVVSV Prasad	Prof	Foundation Of Cloud Iot Edge Ml	NPTEL	April 2024
Mrs. R.UmaArunaDevi	Asst. Prof	Data Base Management System	NPTEL	March 2024
Mr. M.N.V.LNarayana	Assoc.Prof	Compiler Design	NPTEL	April 2024
Mr. M.N.V.LNarayana	Assoc.prof	Research methodology	NPTEL	April 2024

DEPARTMENT ACTIVITIES
Farewell-2024:

Workshop on "GEN-AI"- MNK Tech focus pvt.ltd on 15th & 16th Mar 2024

Students' Focus:
Academic Toppers

A.DIVYA	P.PRASANNA	N.SRIKARI
20A21A1206	21A21A1241	22A21A6534
VIIISEM	VI SEM	IV SEM
CGPA: 9.45	CGPA: 8.84	CGPA: 9.39

Alumni's Voice

I am proud to be part of Swarnandhra College as it provided me a strong academic foundation and discipline to thrive and work harder which helped me to enhance my knowledge and become successful in my career.

L. Ganesh Pheneendra,

Soft Ware Engineer, VIT Infotech, Bangalore (2020 Batch).

Student's Voice
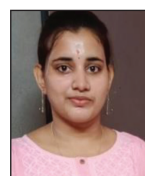
I feel proud to be a student of Swarnandhra. I am grateful to the management, principal, Staff for providing good academic activities and training to face the interviews.

A. Usha Sree
VII Sem, Reg.No:22A25A1201

Vision

To evolve as center of excellence in electrical and electronics engineering to produce graduates contributing to state and national development.

Mission

- To provide quality education through innovative curriculum
- To inculcate research culture, entrepreneurial attitude through industry interaction.
- To develop leadership skills and ethical values among students.

New trends

AI & ML in Electrical Engineering:

The modern era of electrical engineering with ML & AI are at the forefront of technology and shaping a more efficient, sustainable, and technologically advanced future. In general, these techniques are basic to precision design when selecting, rejecting, or channelling of energy is important. Nowadays Artificial Neural Networks are specific types of machine learning systems inspired by the structure and function of the human brain. They consist of interconnected artificial neurons (synapses) organized into layers. Each neuron receives inputs, processes the information, and produces an output that feeds into the next layer, allowing the network to learn and make predictions. Deep Learning is also a subset of machine learning based on artificial neural networks with multiple layers, often referred to as "deep neural networks." Deep learning excels at learning representations of data through hierarchies of increasingly abstract features. This hierarchical representation allows deep learning models to excel at tasks such as image recognition, speech recognition, natural language processing, and more.

Faculty Focus
Workshops/FDP attended by Faculty

| S No	NAME	Program Description	Start date	End date	Organised By
1	Dr Y Venkatesh	AI Evolution: From Fundamentals to Generative AI	22-01-2024	27-01-2024	AICTE
2	Mrs K K D Bhavani	Artificial Intelligence Applications to Electric Vehicles	04-03-24	09-03-24	GMRIT, Rajam
3	Dr V Madhu	Engineering Sustainable Mobility	09-04-24	10-04-24	PALS
4	Dr V Madhu	Fuzzy Sets, Logic and Systems & Applications	Jan 24	Apr 24	NPTEL
5	Dr M Sridhar	Introduction to Machine Learning	Jan 24	Apr 24	NPTEL
6	Mr A Satyanarayana	New Trends in Power Electronics for Microgrids and Electric Vehicles	22-01-24	27-01-24	ONLINE
7	Mr A Satyanarayana	Recent Advances in Control, Instrumentation with Integration of Artificial Intelligence	01-04-24	05-04-24	ONLINE
8	Mr A Satyanarayana	Internet of Things	12-02-24	16-02-24	NITTR
9	Mr B Subrahmanyam	EV Technology: Battery Modeling, Sensors, BMS, Motors and E Bus Charging	12-08-24	17-08-24	Vidhya Vikas Institute, Mysuru
10	Mr B Subrahmanyam	Machine Learning & Artificial Intelligence	12-08-24	19-08-24	Sri Indu PG College, Hyderabad
11	Mr B Subrahmanyam	AI & Gen AI with Industry Application	16-07-24	22-07-24	Narsaraopeta Engineering College

Papers Published in Journals/ Conferences by Faculty

S No	Name of the Faculty	Journal/ Conference Details	Paper Title	ISSN
1	Dr Y Venkatesh	Journal of Optics	Understanding the effect of number of layers on the optical and wetting properties of titania thin films fabricated by sol-gel spin coating technique."	(2024): 1-7
2	Dr Y Venkatesh Mr A Satyanarayana	AIP Conference Proceedings.	deliquescent surfaces using composite TiO2-SiO2 coatings for self-cleaning applications."	AIP Publishing, 2024
3	Dr Y Venkatesh Mr A Satyanarayana	AIP Conference Proceedings.	Fabrication of ultraviolet and near-infrared reflector using titania/silica multilayers by sol-gel spin coating."	Vol. 2965. No. 1. AIP Publishing, 2024
4	Dr Y Venkatesh	AIP Advances	Optical response and temperature shielding coatings using tri-layer structure composed of titania/ silica/ titania.	14.5 (2024).
5	Dr Y Venkatesh	In E3S Web of Conferences.	Sol-gel Spin Coated Hydrophilic Composite Titania-Silica Coatings on the Glass Substrates for Automotive Applications.	(Vol. 509, p. 01001). EDP Sciences
6	Dr V Madhu	Engineering Letters, IAENG	A Novel transformer approach for the recompensed measurement generation and accurate topology identification.	Vo 32, Iss 3, PP 601-613.
7	Dr V Madhu	IEEE Conference SASI-ITE 2024	The impact of the mixed load model on the placement and sizing of distributed generation in a radial distribution network	Conference Proceedings, PP 66-71
8	Mr A Satyanarayana	Advances in Science and Technology. Research Journal	Modeling and Analysis of Fuel Cell Power Generation System Using Proportional Integral Speed Controller	2299-8624
9	Mr A Satyanarayana	Advances in Science and Technology. Research Journal	Improvement of Power Quality with LPF-PI-MSRF Controller in Fuel Cell Integrated Unified Power Quality Conditioner	2299-8624

Patents Published by Faculty

- Dr Venkatesh Yepuri published an Indian patent on Advanced Electrodeposition Method for the controlled growth of ZNO nanorods and ZNO/Cu Hybrid nanostructures, Application No. 202441051451.
- Dr Venkatesh Yepuri published an Indian patent on Semi-Autonomous energy optimization in electric vehicles through machine learning and deep learning, Application No. 202441056320.
- Dr V Madhu published an Indian Patent on "Cloud based deep learning model for predicting battery drain on driving patterns and external factors" in journal dated 19-01-2024, Page no: 6330.

Department Activities

- Students of EEE participated in the inaugural function of Edx Courses offered by APSCHE in collaboration with Govt of AP.
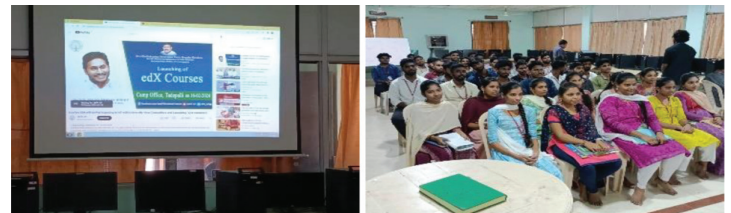
- National Science Day 2024 was conducted in the department

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
POWERING THE FUTURE, REBUILDING THE WORLD.....

- Participated in virtual inaugural function of Silicon FAB CITY, Gujarth by Honourable Prime Minister of INDIA

- Mock NBA inspection done by Dr Mohanthy, Prof/EEE, IIIT Varanasi on 11-06-24.

- NBA Expert team was visted the department for TIER-1 accredidation process.

- Freshers' Day Aloki has been conducted for 1st year students by 2nd year EEE students on 17-02-24.

- Mr A Satyanarayana & Mrs N Lavanya participated in pre conference 03 IGEN ENERGTHON 2024 on 27-04-2024.
- Dr V Madhu got BEST PAPER AWARD for "Development and forecasting models to predict the power consumption of charging stations:IOT" in International Conference EDH 2024 on 13th to 14th March 24.
- Mr B Suryahmanyam, Asst Professor got admission in PhD (Part Time) in Saveetha Institute of Medical & Technical Sciences, Chennai.

Student's Focus

- Mr Rajesh, II Yr Student secured the SECOND Prize in Badminton (Doubles) in Aadudham Andhra, an intuitive of Govt of AP 30-01-24.

- Mr K Hari Krishna, II Year Student stood as Winner in Badminton(Singles) in Valiant 2k23, VIT-Bhimavaram on 29th & 30th December.

- Students of III Yr Ms Bhavya & Ms Manasa were selected in ONEYES Pvt Ltd

- II Year EEE students visited an Industrial Plant in Settipeta, A Mini Hydel Power Plant on 25-01-2024.

- III Year EEE Students visited Dr NTTPS, Vijayawada on 05-03-24, an Industrial visit to enrich technical knowledge.

Placements

Students got placements in various MNC organizations such as One Yes Info Tech Solutions, Tefologic, Indure Pvt. Ltd, Desein Pvt. Ltd with attractive package.

Academic Toppers

A Sai Kiran	Y N Vamsi Priya	Ch Hari Hara Raju
IV Sem, 23A25A0201	VII Sem, 21A21A0239	VIII Sem, 20A21A0212
CGPA:9.34	CGPA: 9.33	CGPA: 8.47

Alumni's Voice

Firstly, thanks to the department of EEE for supporting me in all the activities. I am grateful to the management for raising me from student to one of the responsible citizens of our country.

S Jagadeeswari,
20A21A0238.

Student's Voice

Being able to study abroad at a reputable UK university, I am really proud to tell about this accomplishment. I appreciate the Swarnandhra College's Management and Faculty in my department who helped me in various ways for the timely guidance in all aspets.

T Hemanth Kumar, 20A21A0239
Pursuing MS, East London, UK.

"Talk to yourself atleast once in a day otherwise you may miss meeting an excellent person in this world"- Swami Vivekananda

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
(CREATORS OF CREATIONS – ASSOCIATION OF ECE)

Vision
- To impart quality technical education for Electronics and Communication Engineering Professionals by enriching technical knowledge to cater the needs of industry and society.

Mission
- To facilitate the graduates in acquiring technical exposure to create innovative ideas through state of the art curriculum and conductive learning environment.
- To provide individual attention and build the character through quality technical education.
- To improve the professional skills of the rural students to fulfil the present industry and society requirements.

New trends in technology
Nano Technology
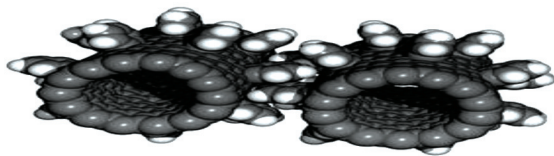
Nanotechnology is the application of Nano science that deals with the use Nano materials and Nano sized components in useful products.It provides the ability to design custom made materials and products with new and enhanced properties.It has a wide range of application in Nano electronic components, medicines and sensors, and interfaces between electronic and biological system and more.

Workshops/Conference Attended By Faculty

Faculty Name	Designation	Name of workshop/Conference	Organised by
Dr. D. Nataraj	Professor	Speech Signal Processing Using Machine Learning algorithms	
Mr I. V. Ravi Kumar	Assoc. Prof	Instructional Design and Delivery System	National Institute of Technical Teachers Training & Research
Mrs M. Kanaka Durga	Asst .Prof		
Dr .T. Jerry Alexander	Assoc. Prof	Virtual Labs	NITK , Surathkal
Mr K.V.B. C. Rao	Assoc. Prof		
Mr V. Satya Kishore	Asst .Prof		
Mr A.R. V. S. Gupta	Asst .Prof		
Mr M. Murali	Asst .Prof		
Dr .T. Jerry Alexander	Assoc. Prof	Superpixels-based Segmentation and Classification using modified fuzzy C-Means Clustering and colour features	10th International Conference on Communication and signal Processing-ICCSP 12th & 13th April 2024

Papers Published By Faculty

Faculty Name	Designation	Title of the paper	Name of the Journal	ISSN/ISBN/Date
Dr. Siragam Srilali	Assoc. Prof	Synthesis and Fabrication of Proto-Type Micro strip Patch antenna by using Microwave Dielectric Ceramic Nano composite material for C-band Application.	Optik https://doi.org/10.1016/j.ijleo.2024.171787	171787/ 3rd April 2024
Dr. Siragam Srilali	Assoc. Prof	Multifunctional Titanium Co-Doped $ZnAl2O4V2O5$ Composite Ceramic Nanoparticles: Enabling Enhanced Performance for L, S, C, and X Band Communications.	Optical Materials	115389 / 1st May 2024
Dr.D.Nataraj	Professor	A Wide Band Antenna for both S-Band and C Band Satellite Communication Applications	Journal of Communications	E1796-2021 vol. 19, no. 1, 2024 / 23rd January 2024
Dr.B.Sadasiva Rao				
Dr.Y. S. V. Raman				
Mr Molugumati Premchand ,	Assoc Prof	Internet of Things (IoT) based Gas leak detection and Alarm system powered by Blynk	Juni Khyat	2278-4632 / 2024
Mrs G. Lakshmi Prasanna	Asst.Prof			
Mrs. Velpuri Padma	Asst.Prof			
Dr. T. J. Alexander	Assoc Prof	Internet of Things Platform for Distributed Brokers Based on MQTT	Juni Khyat	2278-4632 / 2024
Mrs. Y. Dineesha	Asst.Prof			
Mrs. Donga Hinduja	Asst.Prof			
Mr. A.R.V.S. Gupta ,	Asst.Professor	Reversible ALU quantum dot cellular automata: a new design and simulation	Journal of Management and Entrepreneurship	2229-5348 / July 2024
Mrs. K. Aparna Jyothi	Asst.Prof			
Mrs. R. Sindhu	Asst.Prof			

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
(CREATORS OF CREATIONS – ASSOCIATION OF ECE)

Faculty Achievements
Patent Details

Faculty Name	Title of the Patent	Granted Dtae	Application Number
Dr. D. Nataraj	Dynamic Image Processing System Employing Convolutional Neural Networks for Real time Object Recognition and Classification in Autonomous Vehicles	22/03/2024	202441015548A
Dr. D. Nataraj	Novel Communication Protocolutilizing Machine Learning Algorithms for Efficient Spectrum Sensing and Dynamic Spectrum Access in Cognitive Radio Networks	12/04/2024	202441023387A

Book Publications

Faculty Name	Title of the Book	ISBN no/ Year	Name of the Publisher
Dr. S. Srilai, Mr.L.V.S .Narayana Mrs. Rama lakshmi	Optoelectronic Devices	9786207476022 / 2024	LAMBERT Academic Publishing(LAP)
Dr. S. Srilai, Mrs.Ramalakshmi, Mrs. K. Satisha	Semi conductor Evaluation:Past, Present, and Future Trends	9789999317757 / May 2024	Eliva Press

Department Activities

Farewell Party was celebrated on 23rd March 2024.

II year students organized Freshers party for I year students on 17th February 2024.

Student Achievements

V. Kumar Ravi Teja Reddy from III year Participated & secured 2nd prize in Basketball organized by SRKR College on 6th& 7th Feb 2024.

Students' placements

115 students got placed in various companies such as Tefo logic, VTS Enterprises, DeseinPvt. Ltd, IndurePvt.Ltd, Accenture, Einfratech, Constient Global Solutions, VEM Technologies, One Yes Info Tech Solutions ORGWare Technologies and Schneider Electric.

Academic Toppers

B.L,N.K.K.Durga	B. YaminiDurga	M. Sai Mohan
22A21A428	21A21A0427	20A21A04D9
IV Sem, SGPA:9.44	VI Sem, CGPA:9.88	VIII Sem, SGPA:9.35

Alumni's Voice

I am proud to say that our college has the best infrastructure(Labs, Library etc.) with good facilities.Our management provides good training & placement programs. Teaching staff is supportive to the students in all aspects.

Harshitha Reddy Satti
Associate Software Engineer, Pune, Maharahtra, 2019-2023

Student's Voice

I am very thankful to the management for providing good Academics along with training programmes. I am grateful to the faculty for encouraging me throughout my studies.

M. S. V. Rama Krishna

20A21A04D5

DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING
EMPOWERING INNOVATION THROUGH INTELLIGENCE

Vision
- To be a department concentrated on quality education and exploration in Artificial Intelligence & Machine Learning that prepares early professionals contributing to serve the society.

Mission
- To lay a strong foundation of programming knowledge by concentrating on fundamental concepts of Artificial Intelligence & Machine Learning.
- To develop flair for logical thinking and innovative methods to produce software solutions.
- To strengthen employability and entrepreneurship skills.

New Trends
Gemini AI, developed by Google DeepMind, is an advanced artificial intelligence system designed to build on the capabilities of earlier AI models, such as GPT-4. Gemini aims to incorporate a broader range of functionalities and improve on various aspects of AI performance. It was built from the ground up to be multimodal, which means it can generalize and seamlessly understand, operate across, and combine different types of information including text, code, audio, image, and video. Gemini is also the most flexible model yet-able to efficiently run on everything from data centers to mobile devices.By integrating advanced learning techniques and optimizing performance across various platforms, Gemini sets a new standard for the versatility and capability of AI systems.

Faculty Focus
Workshops attended by Faculty

S No	Name of the Faculty	Program Description	Start Date	End Date	Organized by
1	S.P Sudha	Internet of things	12th Feb 2024	16th Feb 2024	National Institute of Technical Teachers Training & Research, Chennai
2	K.Satyanarayana	Deep Learning & Artificial Intelligence	26th Feb 2024	1st Mar 2024	APPSSDC in collaboration with ExcelR Edtech Pvt.Ltd
	B. Aswini Devi				
	V.Sri Lakshmi				
	Ch.Chandrika Surya				
3	V. Sri Lakshmi	Data Visualization using Tableau	1st Apr 2024	5th Apr 2024	Mohan Babu University
4	V. Durga Rao	Gen AI and Prompt Engineering using Copilot	15th Apr 2024	19th Apr 2024	P B Siddhartha College of Arts & Science
	Ch.Chandrika Surya				
5	M.Viswanath	AI Workshop	19th Apr 2024	20th Apr 2024	AIMER
6	R.Prasanthi Kumari	Exploring Generative AI, Deep Learning and Data Science Tools	13th May 2024	18th May 2024	Late SAU. Kantabai Bhavarlalji Jain College of Engineerin, Nashik

	R.Prasanthi Kumari	Digital Marketing	27th May 2024	31st Mat 2024	P B Siddhartha College of Arts & Science

Papers published in journals / Conferences by Faculty

S No	Name of the Faculty	Conference details	Paper Title
1	Dr. B. Rama Krishna	International Conference on Hybrid & Advanced Technologies-2024	Real Time Facial Recognition Using Machine Learning

Certification courses completed by Faculty

| S No	Name of the Faculty	Program Description	Organized by	Date
1	Dr. G. Sudhakar	Compiler Design	NPTEL	April-2024

Awards Received by Faculty
Dr. B. Rama Krishna received Sadhya Acharya Award from Bharat Education Excellence Awards in Feb 2024.

Faculty Achievements:
- Dr. G. Sudhakar Qualified APSET- 2024 in Computer Science & Application.

Department Activities
- A new computer lab with 70 systems was inaugurated on 14th February 2024
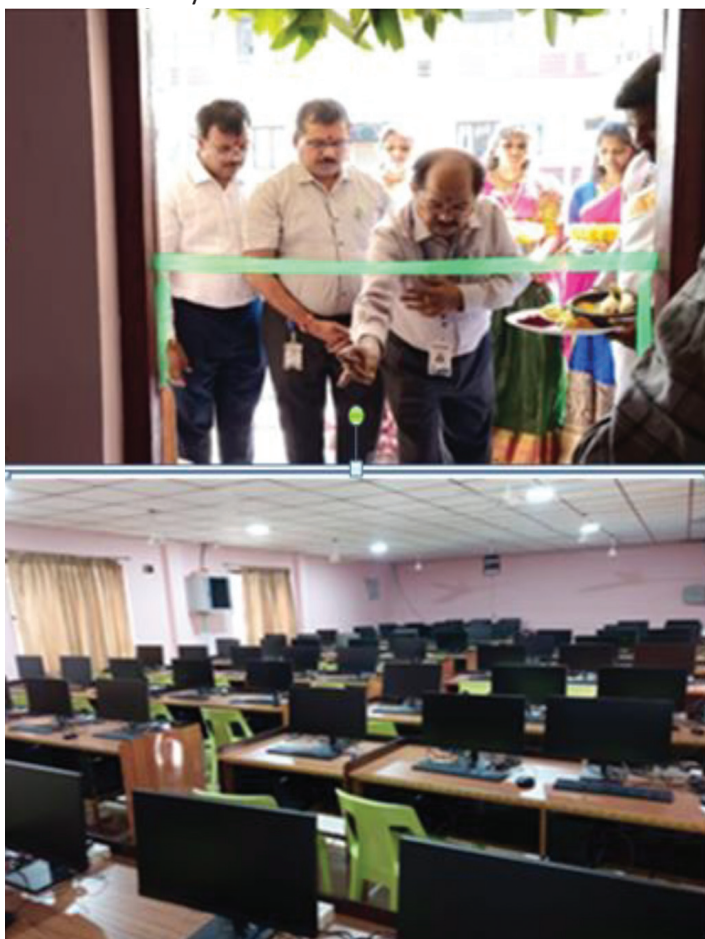
DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING
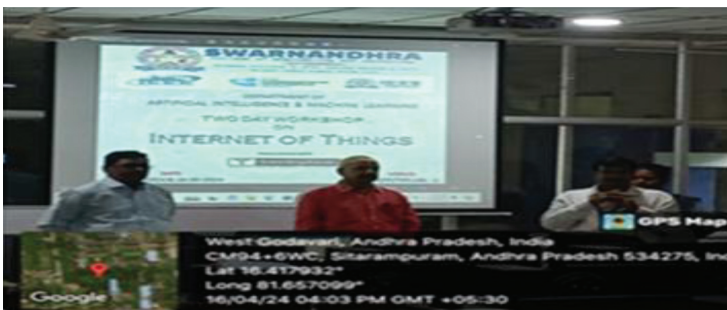## EMPOWERING INNOVATION THROUGH INTELLIGENCE

- A four day workshop was conducted on Mobile Application Development for 2nd year students by Mr. D. Sai Satish from 4th to 7th March 2024.

- IEEE Computational Intelligence Society was inaugurated on 28th March 2024.

- A two day workshop was conducted on Internet of Things for 3rd year students on 15th & 16th April 2024.

Students' Focus
Academic Toppers

A.J. Sri Nikhila	Vasa Purna Praneeth	P. B.V.V. Lakshmi
20A21A6122	21A21A6162	22A21A6184
VII SEM	V SEM	II SEM
CGPA: 9.44	CGPA: 9.59	CGPA: 9.67

Students' Placements

- 26 students got placements in various MNC's such as VTS Enterprises, Tefologic, VIBSInfosol Pvt. Ltd, VIT Infotech, Tivona Global Technolgies with 8.5 LPA.

A.J. Sri Nikhila and N.Naga Dhanalakshmi were placed in TCS with package 7 LPA.

Students' Certification

- 64 students certified in Java Programming through a comprehensive course organized by Spoken English Tutorial, with expert guidance from Dr. B. Rama Krishna.

Students' Achievements :

- R. Lokesh, R. Ventata Prasanna Kumar, K. Satya Kumar, P. Bhargavi, P. Tulasi Rani students of 2nd year participated in Prajwalan 2k24, a 24 hour National Level Hackathon organized by S.R.K.R Engineering College, BVRM on17th & 18th Feb 2024.
- K. Neeraja, P. Sushmitha Devi, L. Harshavardhan, V.P. Praneeth, G.K. Bhaskar, U.N.V. RaviTeja, T. Rahul,P. Vinay, K. Amruthavalli 3rd year studenrts participated in PeCan+ Capture the Flag Cyber Security Competition, organized by IIT Madras Research Park, on 5th & 6th March 2024.

Alumni's Voice

I honed my skills and explored emerging trends during my Academic journey. I'm grateful to the management for providing training programmes. Each step forward has brought me closer to a better version of myself.
Jahnavi Sri Nikhila Ananthapalli
20A21A6122, TCS Digital (Batch 2024)

Student's Voice:

I feel very proud to be a part of AIML department.The curriculum emphasizes hands on projects and industry relevant learning to foster innovation in AI-driven applications.
Routhula Lokesh
22A21A6196

Vision

● To produce global competent, ethical and dynamic professionals by creating Center of Excellence in Technical Education for societal empowerment.

Mission

● To produce quality education with knowledge and skills for rural and urban students.

● To collaborate the industries with academic for empowering the students to meet global standards.

● To induce highly ethical entrepreneurship in young minds with good leadership quality for the society.

● To enhance the institution in Research and Development by human intellectual capability.

New Trends in Technology

Smart Spaces:

These are physical environments in which humans and technology-enabled systems interact in increasingly open, connected, coordinated and intelligent ecosystems.

Extended Reality (XR):

Extended reality (XR) encompasses virtual reality (VR), augmented reality (AR), and mixed reality (MR), providing immersive training experiences. Industries like healthcare, aviation, and manufacturing use XR for risk-free, hands-on training simulations replicating real-life scenarios. This technology improves learning outcomes, enhances engagement, and reduces training costs.

Faculty Focus

Workshop/ FDPS attended by Faculty

Faculty Name	Name of Workshop/ Seminar/FDP/NPTEL	Organized by
A N L Kumar	Attended a one day FDP on Machine Learning with Python	Collaboration with EDX and IBM on 17th May, 2024.
Dr. B. Gohin	Attended a 6 day FDP on Deep Learning and Artificial Intelligence	Andhra Pradesh State Skill Development Corporation in Collaboration with ExcelR. From 26th Feb to 1st Mar, 2024
	FDP on Intellectual Property Rights and Patents	Department of IT, Dr.M.G.R.Educational and Research Institute University, Chennai, from 20th to 24th May, 2024
M. Rama Bhadra Rao	Attended a one day FDP on Machine Learning with Python A Practical Introduction	IBM edX on 25-5-2024.
S. Aruna	Attended a one day FDP on Python Basics for Data Science"	IBM edX on 6-6-2024.
	Attended a one day FDP on Dealing with office politics	Association of Indian Management Schools (AIMS) on 07-02-24
	Participated in a one day Workshop on How to write a proposal for the funded projects	Organized by Pantech e-Learning Pvt. Ltd on 02-06-2024

Ch. Suresh, Ch Durga Devi	Attended a 6 day FDP on Deep Learning and Artificial Intelligence	Andhra Pradesh State Skill Development Corporation in Collaboration with ExcelR. From 26th Feb to 1st Mar, 2024.
G Shanthi Kumari	Competed the certification course on Software Testing	NPTEL -AICTE , Jan-Feb 2024
	Attended a one day FDP on Software Engineering Basics for Everyone	IBM edX 21-5-2024.
A N L Kumar, Dr. B. Gohin, S. Aruna, CH. Suresh, V Sri Lakshmi. G Shanthi Kumari	Attended a 5 day FDP on Data Analytics using Power BI and Tableau	Parul University - Gujarat, Atria Institute of Technology-Karnataka & Amity Pune – Maharashtra in Collaboration with ExcelR Edtech Pvt. Ltd, from 11th to 15th Mar 2024
A N L Kumar, Dr. B. Gohin, S. Aruna, CH. Suresh, CH Durga Devi , G Shanthi Kumari	Attended a 5 day FDP on Business Analytics	AISSMS College of Engineering in Collaboration with ExcelR, from 5th to 9th Feb 2024.
Dr. B. Gohin, S. Aruna, CH. Suresh, G Shanthi Kumari	Attended a 5 day FDP on Data Visualization Using Tableau	Mohan Babu University, Tirupati, Andhra Pradesh Maharashtra in Collaboration with ExcelR Edtech Pvt. Ltd, from 1st to 5th Apr 2024.

Awards Received:

● Maddu Rama Bhadra Rao received the Veteran Scholar of Excellence Award from the AIMER Society on 2nd Mar 2024

Appreciation Letters Received:

● Maddu Rama Bhadra Rao received the Appreciation letter from IIT Bombay for spreading awareness and holding Software Training workshops at Swarnandhra College of Engineering & Technology, Seetharampuram, for the Academic Year 2023-24.

Department Activities

● Department initiated "Open Source Club (SOSSC)". 130 students contributed mini projects which are uploaded in our college website SOSSC.

https://www.swarnandhra.ac.in/sossc/

- MCA Department has been granted a classroom license by JetBrains, enabling 30 authorized users to access JetBrains software until October 2025. This subscription supports educational purposes and enhances the software development skills of students.

https://www.jetbrains.com

JetBrains Toolbox Subscription Certificate

IMPORTANT: THIS IS TO CERTIFY THE RIGHT TO USE THE JETBRAINS SOFTWARE PRODUCT GRANTED BY JETBRAINS S.R.O. PURSUANT TO CONDITIONS OF THE TERMS OF USE. PLEASE SAVE A COPY OF THIS DOCUMENT FOR FUTURE REFERENCE.

LICENSE DETAILS

Type:	Classroom License
Reference No*:	D379201064
Date of issue:	06 November 2023
Subscription Pack ID:	1123/4VZ2G4F
Billing period:	Annual
Valid through:	25 October 2024
Number of authorized users:	30

* Please quote this order reference or License ID when contacting JetBrains

- Conducted a Guest lecture on "Skillsets for Excellence in Digital Era" to motivate the students for the future with a vision of 2030, on 26th June 2024.

Narasapur,AP,India
College Road, Narasapuram, Narasapur, 534275, AP, India
Lat 16.421125, Long 81.656770
06/25/2024 01:53 PM GMT+05:30
Note : Captured by GPS Map Camera

Students at Guest lecture; Skillsets for Excellence in Digital Era

Student's Focus
Academic Toppers

B Gayathi	V Geethika Rani	L Sukanya
22A21F0011	22A21F00C2	22A21F0089
III Sem 9.11 CGPA	III Sem 9.09 CGPA	III Sem 9.05 CGPA

J Satya Durga	B.V Mounika	T Sri S Sravya
23A21F00E8	23A21F00N3	23A21F00C6
I Sem 9.40 CGPA	I Sem 9.1 CGPA	I Sem 9.1 CGPA

B Devi	M Rajeswari	ADN Praveena
23A21F0077	23A21F00A6	23A21F0072
I Sem 9.1 CGPA	I Sem 9.1 CGPA	I Sem 9.08 CGPA

Placements
- Students got placed in OneYes IT Solutions.

M. Vasantha lakshmi	K. Pavan Kumar	K.L.A.V. Eswar
SALARY 8 LPA	SALARY 8 LPA	SALARY 8 LPA

Students Achievements
- Students of the First Sem completed internship on "AWS Cloud Foundation" 19th May, 2024.
- Students of First the Sem completed virtual internship on "Palo Alto Cyber Security" on 27th may, 2024.
- Students of First the Sem completed virtual internship on "Certificate of Virtual Internships" on 7th June, 2024.
- Students of First the Sem Completed 21 Days Masterclass on "Data Science" from Pantech e-learning, on 10th Jun, 2024.
- Certification on "Spoken Tutorial" has been completed by 188 students, on 27th Jun, 2024.

Alumni's Voice

The period of my Post Graduation at Swarnandhra College of Engineering and Technology was transformative. The rigorous course work and hands-on projects prepared me for a successful career in Computer Science. The support from professors and the collaborative environment fostered my growth, leading me to secure a position at a leading Software firm right after Post graduation.

M Leela Niharika,
Software Developer
Hexaware Solutions, Chennai.(2021-2023 Batch)

Student's Voice

I'm so excited to start the new beginning of my post-graduation studies. I'm aware that there are so many opportunities in Swarnandhra College of Engineering and Technology that I can't wait to explore

P Dileep.
Reg No: 23A21F00B1.

Everybody should learn to program a computer, because it teaches you how to think. - Steve Jobs

SCHOOL OF MANAGEMENT STUDIES
Todays Learning Tomorrow Leading

Vision
- To produce capable business leaders by imparting professional quality education who are strong in management and research skills.

Mission
- To provide quality education within an environment of continuous learning to leverage market opportunities and enhance career.
- To inculcate professional and ethical values among students to be successful managers and entrepreneurs.
- To prepare the students to meet global challenges by blending their knowledge, skills and attitudes.

New Trends
Sustainability became an increasing focus for businesses of all sizes, and sustainability programs are often implemented as an element of effective management practices. Businesses adopting eco-friendly measures to reduce carbon emissions and appeal to eco-conscious customers - from cutting waste production and energy consumption down to using materials sourced from sustainable providers - but businesses that fail to embrace sustainable strategies may face disadvantageous competitive conditions as environmental consciousness among their target demographic increases.

Faculty Focus
- Ms. Ch.Pavani, Mr.Ch.Srinivas completed NPTEL certification course on Managerial Economics
- Dr. Sridevi, Mrs. V.Christy, Mr.Ch.Srinivas NPTEL certification course on AI in Marketing.
- Mrs. V. Christy completed NPTEL certification course on Principles of Management.

Workshops/Conferences/Publications by Faculty

Faculty Name	Name of Workshops/Seminars	Organized by/Published
Mr.Ch.Srinivas	10 hour National FDP on Business Analytics.	AISSM College of Engineering collaboration with EXCELR from 5th to 9th Feb 2024
Mrs.V.Christy	Participated in a 2 day Workshop on Business Intelligence using Power BI	Skill Nation on 6th & 7th April 2024
Mrs.D.Haleena	Attended a 2 Day International Conference on Multidisciplinary Research in Agriculture & Industry Development: Government Rural Development Program.	International Social Science & Management Association Welfare, Mahakushak University, International Society of Teachers, Administrators& Researchers Bankok, Thailand.
Dr.N.G.S.Prasad Mrs.V.Christy	Attended the National Webinar on Wealth Creation Through Financial Planning	Joint Collaboration of RNB Global University, Bikaneer, Rajasthan & Association of Mutual Funds in India (AMFI) on 1st March 2024
Dr.N.G.S.Prasad Mrs.V.Christy Mr.Ch.Srinivas	Attended workshop on Dealing With Office Politics.	Association of Indian Management schools (AIMS) on 7th Feb 2024

Organized a workshop on Soft Skills Enhancement from 8th - 11th Jan 2024.

Organized a workshop on Skill Pursuit for MBA I year students on 28th March 2024.
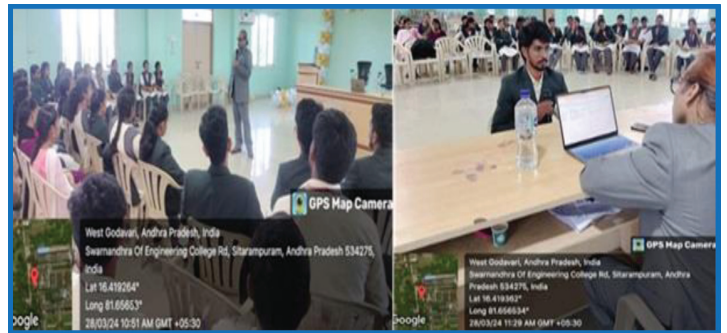
Organized a workshop on The Job Pursuit-A Blueprint for II year students on 28th March 2024

Students' Focus: Academic Toppers

Organized a two day Management Fest "AARUSH" on 18th & 19th April, 2023.

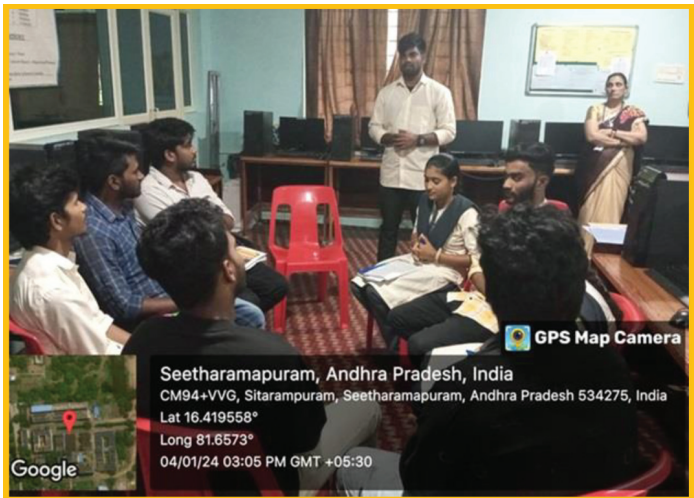Final year student organized Best out of Waste Program on 2nd March 2024

Final year student organized Best out of Waste Program on 2nd March 2024

Conducted weekly Personality Development Programmes for students

Conducted a session on Role of AI in Business on the occasion of National Science Day on 28th Feb 2024.

Reg.No	Name	Name of the Organization, Duration
22A21E0007	Bezawada Surya Mallika	Walk-in Manpower Solution From 30th Jan to 31st Mar2024
22A21E0011	Barri Gayathri	Walk-in Manpower Solution From 8th Feb to 8th Apr2024
22A21E0034	k. Devi Sri	Walk-in Manpower Solution From 30th Jan to 31st Mar2024

Placements

Swarnandhra College of Engineering & Technology
Autonomous
Department of MBA
Congratulations for getting offer in LAPIS Technologies with 3 LPA

Akhil Kancharla 22A21E0061
Padma Mounika G 22A21E0021
T. Mahesh Babu 22A21E0047
Dileep Balla 22A21E0009
Shanmukh Ch 22A21E0015

Congratulations for getting offer in LAPIS Technologies with 2.4 LPA

Leela Supraja Korra 22A21E0063
Anusha Gunturi 22A21E0025
Satya Priya Ponnapalli 22A21E0043
Bandi Mounika 22A21E0010

Congratulations

Alumni's Voice

My experience at Swarnandhra was great and memorable to cherish for a lifetime. Academic excellence along with the overall growth of the person is the aim of the institution. Students are provided with the best facilities and-friendly environment.
B.S.R. Manvitha,
Senior Relationship Manager
ICICI Securities, Hyd
(2021-23 Batch)

Student's Voice

The department strives to enhance the necessary business skills and knowledge of each student so that they can succeed in any professional endeavor.

Bheemeswara Rao
21A21E0015

Management is doing things right; Leadership is doing the right things. - Peter Drucker

Vision

- To empower Computer Science Engineers as technologically adept, innovative, self-motive and socially responsible professionals by providing multi-dimensional education.

Mission

- To lay a strong foundation of programming knowledge by concentrating on fundamental concepts of Computer Science and Engineering.
- To develop flair for logical thinking and innovative methods to produce software solutions.
- To strengthen employability and entrepreneurship skills.
- To produce socially responsible software professionals with ethical values

New Trends
Quantum Computing Set for a 'Sputnik' Moment

Quantum computing is poised for a transformative breakthrough, likened to the "Sputnik" moment in technology by Steve Brierley, founder of Cambridge-based Riverlane. The company recently unveiled the world's first dedicated quantum decoder chip, addressing the critical issue of error correction that has hampered the field. These advancements could revolutionize drug development and create more efficient batteries, helping to combat climate change.

Faculty Focus
Faculty Publication

Faculty Name	Designation	No, of Publications		
		UGC	Scopus	SCI
Mr. TulasiRajuNethala	Asso. Prof.	1	1	-
Mr. B. S. Varaprasad	Asst. Prof	1	-	-
Mr. P Srinu Vasarao	Asst. Prof	2	1	-
Ch. S. Prabhakar Rao K	Asst. Prof	2	2	-
Mr. K. Rajesh Kumar	Asso. Prof.	1	-	-
Ms. Archana Gelli	Asst. Prof	1	-	-
Mr. Vijaya Raju	Asst. Prof	1	1	1

FDPs & Workshops Attended by Faculty

Faculty Name	Designation	FDP	Workshop
Mr. B. S. Varaprasad	Asst. Prof	1	-
Mr. M. Vijaya Raju	Asst. Prof	1	-
Mr. TulasiRajuNethala	Asso. Prof.	1	1
Mr. John Bunyan V	Asst. Prof	1	-
Ms. I. Praveena	Asst. Prof	3	-

Certification Courses

Faculty Name	Designation	Name of the Certificate Course	Organized by	Date
Mr. Ch. S. Prabhakar Rao K	Asst. Prof			2024

Faculty Achieves New Heights: Three Assistant Professors Embark on PhD Journey

The CSE department is thrilled to welcome three new PhD Part-time scholars as faculty.

Books Publication by Faculty

- The book "Data Structures in Java: Top 100 Programming Questions and Solutions" by Srinivasulu Pamidi and Venkateswarlu Chennareddy is an essential resource for anyone preparing for programming interviews, particularly in the tech industry.
- It emphasizes the importance of data structures in computer science and provides a comprehensive collection of real interview questions that are frequently posed by leading tech companies.

Key Features

- Focused Content: The book is designed to help readers build a solid foundation in various data structures, which are crucial for solving complex programming problems.
- Practical Approach: It includes 100 programming questions that cover a wide range of topics, allowing readers to practice and enhance their problem-solving skills.
- Interview Preparation: The questions are curated to reflect the types of challenges candidates might face during technical interviews, making it a valuable tool for job seekers in the software development field.

Target Audience

- Students studying computer science or related fields.
- Job seekers preparing for technical interviews in software development.
- Professionals looking to refresh their knowledge of data structures and algorithms.

"Data Structures in Java: Top 100 Programming Questions and Solutions" serves as a practical guide for mastering data structures and excelling in programming interviews, making it a must-have for aspiring software engineers.

- We are excited to announce that our faculty, Mr. P. Srinu Vasarao and I. Praveena published a new book titled "Full Stack Web Application Development" (ISBN 978-93-5757-406-8) in 2023 through SIPH.

Key Highlights:

- Step-by-step guidance from basic concepts to advanced techniques.
- Hands-on projects to apply what you've learned in real-world scenarios.
- Best practices in building secure, responsive, and scalable web apps.
- In-depth coverage of front-end and back-end development using modern frameworks and tools.

Computing is not about computers anymore. It is about living. - Nicholas Negroponte
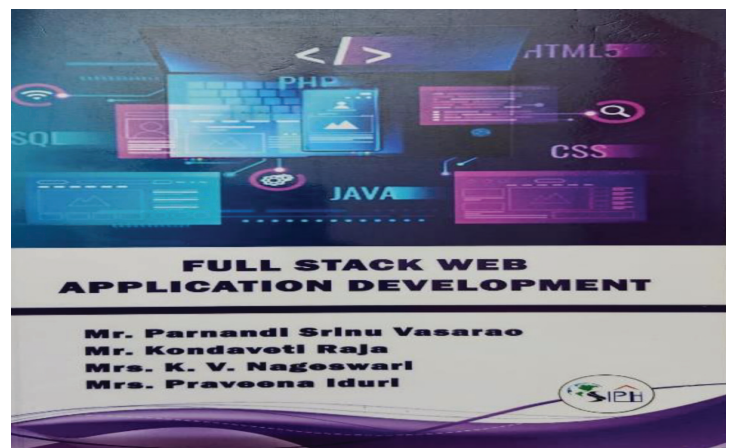
This book serves as a comprehensive guide to modern web development, covering essential topics from front-end to back-end technologies. It is a valuable resource for both students and professionals looking to enhance their skills in this field. Congratulations to Mr. P. Srinu Vasarao and Praveena on this remarkable achievement! Be sure to check out their book for insights into full stack development.

Department Activities

Dr. S. Ramanarayana Reddy, the esteemed Head of the Department of Computer Science and Engineering at Indira Gandhi Delhi Technical University for Women (IGDTUW), recently graced Swarnandhra College of Engineering and Technology with his presence. His visit, spanning two days, was marked by a highly impactful Faculty Development Program on NBA Accreditation.

Throughout the program, Dr. Reddy conducted a comprehensive mock inspection of the NBA for the CSE department, providing invaluable insights and guidance to faculty members. His expertise and keen understanding of the accreditation process were instrumental in aligning the department's practices with NBA standards.

In addition to the rigorous accreditation focus, Dr. Reddy also dedicated time to guide and inspire research activities within the CSE department. His commitment to fostering academic excellence and innovation was evident as he shared his knowledge and encouraged faculty members to pursue cutting-edge research.

Dr. Reddy's visit left an indelible mark on Swarnandhra College, and his contributions are sure to elevate the institution's academic standards and research capabilities.

Students Achievements

Jarugu Leela Sriram (Roll No: 22A21A0550) and a team of 10 participated in the AI DAYS 2024 Conference held on 30th March 2024 at JNTUH Auditorium, securing a Participation Certificate.

Jarugu Leela Sriram was awarded 1st Position as the Best NSS Volunteer on 15th August 2024 at SCET, Seetharamapuram.

Together with fellow students, Jarugu Leela Sriram contributed to a written and published book aimed at I B.Tech students for NSS on 16th February 2024 at the S&H Department.

In a commemorative Parade on Independence Day held on 26th January 2024, Jarugu Leela Sriram and his team secured 1st Position, demonstrating their team spirit and patriotism.

These achievements reflect the dedication and hard work of our students, who continue to excel in academics, extracurricular activities, and community service. Congratulations to all the participants for their significant accomplishments!

Celebrating Women's Day with Inspiring Leadership: JD Lakshmi Narayana at SCET

On March 8th, 2024, in honor of Women's Day, the Department of Computer Science and Engineering (CSE) at Swarnandhra College of Engineering and Technology (SCET) welcomed a distinguished guest, Vasagiri Venkata Lakshminarayana, affectionately known as JD Lakshmi Narayana. An esteemed retired police officer and politician from Andhra Pradesh, JD Lakshmi Narayana's visit was a source of immense inspiration for the students and faculty.

Addressing a vibrant gathering of young girls and women faculty members, JD Lakshmi Narayana shared his profound insights and experiences. His speech resonated with messages of empowerment, resilience, and the importance of pursuing one's dreams with unwavering determination. His presence served not only as a testament to the achievements of women in various fields but also as a powerful encouragement for the next generation of female leaders.

Academic Toppers

KADALI DEVI PRIYA
VIII, 20A21A0534
Sem. 9.71

KARNA VIDYA RATNA SRI
VIII, 20A21A0580
Sem. 9.68

Alumni's voice

I am thankful to the management for providing opportunites, acess to excellent collabartive projects and exposure which helped me to gain technical and life skills as well.

M. Teja Sri, Software Engineer, Tefologic

(2020-24 Batch)

Student's voice

Our college helps us to grow both academically and personally with a supportive environment.We are guided by expert faculty and have access to modern labs for practical learning.

Computers are like old Testament Gods; lots of rules and no marcy. - Joseph Campbell

DEPARTMENT OF SCIENCE AND HUMANITIES

Vision:

- To improve knowledge of basic sciences besides, enhancing communication skills of the students.

Mission:

- To develop language proficiency of the students by focusing on LSRW skills.
- To enrich mathematical and scientific knowledge of the students in maths, physics and chemistry.
- To learn ethical and social awareness by studying Ethics and Environmental Sciences.

Faculty Focus:

- Dr. N. Gnana Praveena, Associate Professor participated a Five day online Faculty Development Program on "Sustainable Nano materials Engineering for Environmental Applications" organized by Physics division, Department of Basic Sciences & Humanities in collaboration with Centre for Nanotechnology, Indian Institute of Technology Guwahati under INUPi2i program from 22 - 26 April, 2024.
- Mr. K. Koteswara Rao, Asst. Professor attended International Conference on Recent Trends in Science and Engineering (ICRTSE)" Organized by Govt V.Y.T. PG Autonomous college, Durg & IIT Bhilai Presented a paper entitled "Photoluminescence Studies on Gd3+ doped Ca3Al2O3 Phosphor" during 8th -10th February 2024
- Dr. Zehrabi, Professor, Published a paper in Forum for Linguistic Studies entitled Select Pairs of LVS 0f Telugu and Kanada, Vol 6, Issue 1, ISSN:2705-0610, E-ISSN:2705-0602, May 2024.
- Dr. Zehrabi, Professor,participated in a one Week Workshop in Inter National Workshop on Crafting Knowledge: A Comprehensive Guidance on research Design & Academic Writing for humanities& Social Sciences from18th to 24th March 24.
- Dr. Zehrabi, Professor, participated in a one day Workshop in Inter National Workshop on National Education Policy (NEP) 2020: A Workshop for Educators on 15th March 2o24.
- Dr. Zehrabi, Professor,participated in a Workshop in Inter National Workshop on New Dimensions for Augmenting English- Speaking Skills in 12 Contexts from26th to 27th April 2024.
- Dr. Zehrabi, Professor,participated in a two Week Faculty Development Programme on Enhancing pedagogical & professional practices among language educators from18th to 29th to 4th Feb. 2024.
- Dr. Zehrabi, Professor,participated in a Workshop in Inter National Workshop on How to prepare research outline on 27th July, 2024.
- P. Thripureswari, Asst professor published a paper on " The History of Australia and its Literature,Scopus Indexed Q3 Journal, Jan to June 2024.
- P. Thripureswari, Asst professor published book chapter named " Barbara Baynton's Squeaker's Mate: A Study" with ISBN: 978-93-91420-50-5 in July 2024.
- Dr. E. M. Victoria, Asst Professor published a paper on "Irreversibility Analysis for EMHD flow of silver and magnesium oxide hybrid Nano fluid due to non linear thermal radiation" in International journal of Modern Physics B on 27th March 2024.
- N.Lavanya, Asst. Professor attended Professional Development Programme on "Instructional design and Delivery systems" conducted by National Institute of Technical Teacher's Training and Research, Chennai from 11-3-2024 to 16-3-2024 at Swarnandhra College of Engineering and Technology, Narsapur.

23A21A05F5 CGPA : 9.64	23A21A05M6 CGPA : 9.64	23A21A05P8 CGPA : 9.64	23A21A6425 CGPA : 9.61	23A21A05V1 CGPA : 9.61	23A21A05K2 CGPA : 9.56	23A21A0596 CGPA : 9.44	23A21A05M5 CGPA : 9.33
23A21A05R9 CGPA : 9.33	23A21A0543 CGPA : 9.30	23A21A05B0 CGPA : 9.29	23A21A05O5 CGPA : 9.28	23A21A05R2 CGPA : 9.28	23A21A4418 CGPA : 9.26	23A21A4451 CGPA : 9.25	23A21A05B2 CGPA : 9.24
23A21A05T2 CGPA : 9.24	23A21A4447 CGPA : 9.24	23A21A5433 CGPA : 9.24	23A21A1204 CGPA : 9.23	23A21A0545 CGPA : 9.21	23A21A4424 CGPA : 9.19	23A21A05E7 CGPA : 9.18	23A21A0563 CGPA : 9.16
23A21A05C7 CGPA : 9.16	23A21A05A5 CGPA : 9.13	23A21A61A7 CGPA : 9.13	23A21A04C1 CGPA : 9.14	23A21A05Q2 CGPA : 9.11			

23A21A05B9 CGPA : 9.76

Student Voice:

I am very much satisfied with the care taken by the faculty of Basic sciences and Humanities to impart the knowledge which is essential to pursue and gain insight into the engineering course.
Tirumala Yamini,
Regd. No: 23A21A05R2

"Education is not the learning of facts, but the training of the mind to think." - Albert Einstein.

Selected-50 - CTC 3 LPA

INDURE
ISO 9001:2008

Selected-64 - CTC 3.4 LPA

SELF-RELIANCE IN ENGINEERING
DESEIN

Selected-1- CTC 4 LPA

KEC
KEC INTERNATIONAL LIMITED

Selected-9 - CTC 2.4 LPA

Selected-35 - CTC 1.8 LPA

VR1
IT SOLUTIONS PVT LTD

TRAINING PROGRAMMES DURING THE YEAR 2024

Vision

- To evolve the students of Swarndhara with a winning personality and stunning intelligence, and to mould them in to an organised and confident Professionals.

Mission

- To develop the employability skills of technical under graduates with their interpersonal attrlbutes which are to be acquired by the learners during their training period. Traning & Placement Cell is the most prestigious cell in our College and it is full-fledged with diligent and talented executives who work in tandem with distinct departments of the college and the industries to build a bridge and remove the gap between the academia and the corporate world. The cell ensures that the students of B.Tech., M.B.A., and M.C.A., are well trained in soft skills, life skills and communication skills by certified trainers from reputed organizations and prepare well before they step into the job arena.

S.No	Branch	Passout Year	Strength	Training Course Name	From	To	Organisation
1	B.Tech 4th YEAR (Mech)	2024	76	CATIA	15.02.2024	23.02.2024	AEP
2	B.Tech 4th YEAR (Mech)	2024	76	Fusion 360	15.02.2024	23.02.2024	AEP
3	B.Tech 4th YEAR (Civil)	2024	44	Revit / AutoCAD	15.02.2024	23.02.2024	AEP
4	MCA	2024	13	Special Training for VTS selected students	02.01.2024	30.01.24	Consensus Academy
5	B.Tech 3rd YEAR (All Branches)	2025	359	Technical Training (Python)	05.02.2024	15.03.24	Consensus Academy
6	B.Tech 3rd YEAR (All Branches)	2025	333	Java Full Stack Training	05.02.2024	15.03.24	Consensus Academy
7	B.Tech 2nd YEAR (All Branches)	2026	1280	Aptitude, Reasoning, Soft Skills	21.03.2024	08.04.2024	My Career

Difficulties in life are intended to make us better, not bitter- Dan Reeves

SWARNANDHRA POLYTECHNIC COLLEGE
EMPOWERING SKILLS... ENRICHING FUTURE

Vision:

- To Develop Engineering Professionals Competent to face the global challenges in a progressive environment conducive to acquire technical knowledge andskills blended with ethics and values to serve the society and for a happy and comfortable living.

Mission:

- To make the students understand basic concepts underlie in Engineering and able to apply them creatively in different fields of Engineering.
- To train the students sensitive to the environment, safety and economic context.
- To produce technically skilled students through intensive training in Engineering tools & application and to prepare them for professional career and further research.
- To provide opportunity to diploma students who are capable of playing pivotal roles in wide aspects of modern engineering.

Placements:

Our 2021-23 batch students were selected for 4 companies in the AY-2023-24. In JBM group 3 students got placed with 1.9 LPA, 10 students were hired by V-Pack Automation with 1.9LPA and 65 students were recruited in Sunglare Technologies with 2.3LPA and 20 students were placed in Tech In IT Pvt. Ltd with 2.0 LPA. All theeligible students actively participated in all centralized drives arranged by SBTET i.e HL AnandMando, Efftronics and Servo Medha etc.,

S.No	Company	Eligibile Branches	Exam Conducted on	Selected	Package
1	JBM Group	DME	8/10/23	3	1.8 LPA
2	Sunglare Technologies	DME,DEEE,DCME,DECE	26/02/24	65	2--3 LPA
3	V-Pack Automation	DME,DEEE	29/02/2024	10	1.92 LPA
4	Tech In IT	DCME	15/11/2023	20	2.0 LPA
	Total	98			

Industrial Visit :

Our Mechanical students visited VTPS, Vijayawada on 02/03/2024 along with department faculty members and they acquired a lot of knowledge from the exposure to the factory and experts demonstration. One full day they focused on working of turbines, compressors, coal handling plants and condensers.

Industrial Training:

Students of III DME(2021-23 Batch) completed Industrial training in May 2024 as per the APSBTET norms. All 32 students gained industrial knowledge in their training and acquired skills from hands-on practice.They were paid stipend of Rs.12 thousand per month in several companies like Hundai steel, UmedhPharma, Rane Breaking Systems,Aero space, Royal Enfield, Maruthi Suzuki show room, etc.. In this period a few faculty members visited all industries for the 1st and 2nd assessments.

Industrial training 2022 batch

S.No	Branch	Name of Company	Location	No.Students
1	DECE	Resolute	Hyderbad	21
2	DECE	Bhagyasree Industries	Hyderbad	24
3	DECE	TLN Enterprises	coimbatore	02
4	DME	Sunglare Technologies	Hyderbad	12
	Total			59

IPSGM

Academics:

| R. PRAVEEN 21258-M-029 92% | G. DINESH 21258-M-029 95% | B. NITHIN SAI 21258-EC-010 91% | CHJAYDEEP 21258-EC-015 90% |

| A. Mahanvi 22258-AIM-002 ` 87% | K. Sujeel Raju 22258-CM-032 92% | E. Mukesh 22258-EC-021 96% | B. Dinesh 22258-M-003 78% |

"Everything is easy when you are busy. But nothing is easy when you are lazy". - Swami Vivekananda

SWARNANDHRA POLYTECHNIC COLLEGE
EMPOWERING SKILLS... ENRICHING FUTURE

Innovation Club

Our students completed project work in their V semester and demonstrated the working in innovation club. They formed into 6 teams with a group 5members in each team. All the projects are displayed to all staff & studentsalong with the innovation club members and received their appreciation and valuable suggestions.

Our Selected Students

FDP's Attended

S. no	Name of the Faculty	Program Description	Organized By	DATE
1	Dr.M.S.Kiranmayi	Stress Management	Mr.Aadil	27/06/2024
2	Mr.NNKK Swamy	Stress Management	Mr.Aadil	27/06/2024
3	Mrs.B.Lydia Kanthi	Workshop of Teaching Methodology	Dr.C.R.Nagendar Rao	11/03/2024
4	Ms.PNV Lakshmi	Workshop of Teaching Methodology	Dr.C.R.Nagendar Rao	11/03/2024
5	Ms.Lalitha Devi	Workshop of Teaching Methodology	Dr.C.R.Nagendar Rao	11/03/2024
6	Mrs.KND Lakshmi	Workshop of Teaching Methodology	Dr.C.R.Nagendar Rao	11/03/2024
7	Mrs.B.Sharmila	Workshop of Teaching Methodology	Dr.C.R.Nagendar Rao	11/03/2024

Extra-Curricular and Social Services Activities:

As a part of social responsibility the I year polytechnic students celebrated National Voter's day on 25th Jan.,National water dayon 14th April 2024.They created awareness among the public withplacards on importance of vote, how to save waterand need to Ban plasticto protect our environment.

POLYTECHNIC ANNUAL DAY:

SAMSKAR- 2K4 wasCelebrated on March 16 th 2024 in the basketball court Prof (Rtd) Dr. C.R. NagendraRao,NITTR was the chief guest of the day. He motivated the students by stating theadvantages of polytechnic education and appreciated the college for placing 60% of the eligible students in final year diploma.

I YEAR STUDENTS SUMMER INTERNSHIP:

I YEAR STUDENTS SUMMER INTERNSHIP:

All the I year DCME, DECE, DAIM, DEEE and DME students participated in 2 week summer internship during May/June 2024 as prescribed by the SBTET. They visited Fire Station to know how the fire engine works and how to save peoples life. They also visited Water Plants and understood about RO system and how they treat and supply drinking water to people. A few visited municipality office to know about sanitation. A few of them visited schools to identify their problems and a few went to agricultural fields to identify the problems of the problems etc to find out technological solutions.

IEEE SWARNANDHRA STUDENT BRANCH

IEEE Advancing Technology for Humanity

Advancing Technology for future generation…..

Vision

IEEE will be essential to the global technical community and to technical professionals everywhere, and beuniversally recognized for the contributions of technology and of technical professionals in improving global conditions.
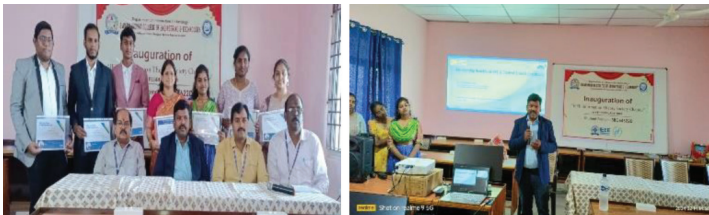
Mission

IIEEE' score purpose is to foster technological innovation and excellence for the benefit of humanity.

Student Branch Activities

- Sankranthi Cebrations 2024 were conducted by Student Branch along with Women In Engineering affinity Group.

- Information Theory Society Chapter (SBC64622D) was formed in IT Department and is inaugurated on 14-02-2024.

- PES Chapter Student members participated in Project Expo as part of IEEE International Conference organised at Sasi, Tadepalligudem.

- Computational Intelligence Society (SBC64622E) Chapter was formed and was inaugurated in AIML Dept on 28-03-2024.
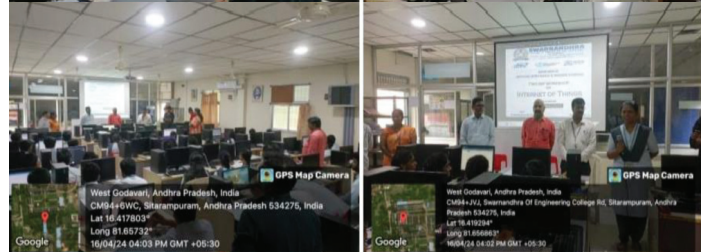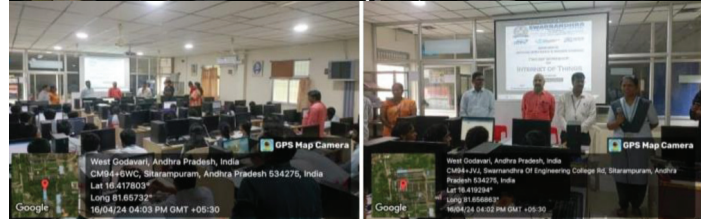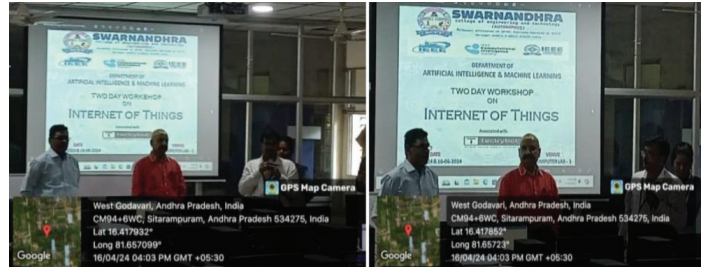

- Industrial Visit by PES, IAS Jt Chapter to Minil Hydel Power Plant on 25-01-2024.

- Industrial Visit by PES, IAS Jt Chapter to Dr NTTPS on 05-03-24.

- IOT Workshop was conducted by Computational Intelligence Society (SBC64622E) on 15-04-2024.

- IEEE SB Excom committee meeting was arranged and Dr Siva Kumar, Chair CS Chapter, Vizagbay Section addressed the gathering.

EXTRA-CURRICULAR AND SOCIAL SERVICES ACTIVITIES