SWARNAKSHARA

A Newsletter of
SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)

Volume - 14 | **July - December 2023** | **Issue - I**

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Editorial

Dear Readers

Education enables human being to develop in all aspects of life. As technology continues to evolve in diverse fields, it demands the change in engineering education to hone the skills of the students and get ready to face the challenges of neoteric society. Therefore, renewal of the syllabi of courses is mandatory in curricula. As per The New Education Policy (NEP) new guidelines, Board of Studies of all departments and Academic council meetings were being conducted to implement new regulations, to design the outcome based and choice based curriculum for Academic year 2023- 2024.

Graduation Ceremony is a defining moment in every graduate's life. Besides giving, a huge boost to self-esteem, confidence, it depicts learners' desire and determination in achieving their aim. Graduation Day had been celebrated in Institution on 5th Oct 2023. the Chief Guest Sri Mudunuri Prasad Raju, the Chief Whip, A.P issued the certificates to the technocrats.

Orientation Programme for freshman engineering students was organized on 6th Oct. 2023 in the premises. A three week Induction Programme was being organized on different topics such as Enhance Your Life Skills by K.V.S.G.Murali Krishna, Director Industry Institute Intraction, Training & Placement, JNTUK, Kakinada, Skill Development Awareness Programme by -Sri Dhulam Kishore, District Youth coordinator, Ministry of Youth Affairs & Sports, Govt. of India, Communication Skills Workshop by Dr. Zehrakhasim, Prof., of English to the upcoming professional students.

Faculty Development Programmes were being organized by NITTTR in the college premises in various departments on different topics to equip teachers with skills and knowledge, which are essential to be a resource person to felicitate knowledge to the young technocrats.

Indian culture has gained lots of popularity all over the world. But modern generation is obsessed with western culture; as a result they are forgetting their own culture. Swarnandhra College of Engineering & Technology strives to bring out the richness of Indian culture by conducting Saraswathi Puja in the premises on the eve of Dussehra.The ritual of Ganesh Visarjan is symbolic of the cycle of birth and death. It also symbolises the concept of destruction as nothing is permanent in life and change is something we all have to live with. Polluted water is not only injurious for the environment, but also for the living beings. Our Management endeavors to turns our student responsible citizen by invoking students to prepare Eco-friendly sculptures of Ganesha to immerse in water. We are delighted to share that SCET received Best Performing Institute by AWS Academy and Annual Ranking 2023by AICTE- EduSkills Virtual Internship Programmes.

Besides providing technical education, the management strives to turn its technocrats sensible by celebrating Teachers' Day, Engineers' Day, Mathematics' Day and Independance Day , National Education Day and organizing different competitions on respective topics in the premises and boost the creativity of the students by awarding prizes to the winners.

Swarnandhra feels delighted to share that National Board of Accreditation (NBA) Self Assessing Report for EEE, Mech, ECE, CSE and IT branchesTier one is submitted for five branches in December 2023

As a part of NSS activity NSS unit of our college organized Awareness programmes on wastage of Water, led bulbs, drinking water for birds in summer, environment conservation, Mera Mati Mer Desh, career Guidance, world ozone day, swachhta Hi Seva, Amrit Kalasa Yatra, AIDS Day, Viksit Bharat. National Unity Day and National Education Day.

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

It gives me great pleasure and pride to release the Newsletter of our Institution. I am very glad to say that this newsletter comes in very handy for knowing the various activities that are took place in the campus. The colleague has steadily been in the pursuit of its objective of achieving excellence in technical education, leadership and corporate excellence . Our college is committed to maintain an academically rich and professionally competent environment by encouraging the enterprising skills of our student. Our college has highly qualified and experienced faculty who are committed to the cause of educating students with innovative teaching methodologies, taking up research projects, organizing seminars and conferences for the benefits of the student community.

In today's world of cut throat competition only the efficient, the able and the smart can survive. To face the competitive world and to emerge successful, a sincere effort should be initiated to equip students to face the challenges ahead. With that end in view several add-on courses are offered to students to increase their employability skills. E-learning is encouraged. Leadership training for effective placement is being given.

Updating news skills have become the order of the day. Only a person willing to learn new things can see the problems and challenges in their right perspective and offer lasting, sustainable and comprehensive solutions. The college has been simply unstoppable in its progress as it has been actively involved in various activities that have brought to light the hidden talents of the students by initiating various student activities

I complement the editorial team on their sincere efforts and hard work to present this news letter.

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.

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

Emerging construction technology is innovative new schemes. There are real, practical applications and benefits to modernizing the current processes involved in the industry. BIM is similar to CAD (computer-aided design), but not the same. It is software for 3D design to digitally model what is going to be built. The application of BIM increases prefabrication, modularization, and eco-friendliness. More than 30% of builders are currently using BIM or CAD

FACULTY FOCUS

Faculty Achievement

Dr. V. Gajendra was confirmed with doctor-ate degree for his work on "Comparative Study On Strength Characteristics of Soil Stabilized Pavement By Using Fly Ash And GEO-Reinforcement with Different Loading Conditions."

FDP's Attended by Faculty

Faculty name	Name	Organized by
Mr.GVLN Murthy	Holistic Approach for Design,construction and Maintenance of Resilient Road Pavement Infrastructure	NIT- TIRUCHIRAPPALLI At 11th Dec 2023 to 15th Dec 2023
Dr.M.S.V.K. Prasad	Sustainable Engineering Concepts and Life Cycle Analysis	NPTEL at Jul-Sep 2023
A.V Krishna	Advancements in FRP composites for structural applications	SASI-(SITE) at 22 Nov to 14 Nov 2023
D. Satish	Design of Steel Structures	NPTEL at Jul-Sep 2023
G.Venkata Ramana	PALS-VLAB	NITK SURATHKAL at sep 2023

Students' Focus - Placements

13 Students got selected in various companies such as KEC, SSK Steel etc.

Academic Toppers

P.Sai Vinnela	V.Hema	G.Rugneswari
VII Sem, 20A21A0125	V Sem, 21A21A0138	IIISem, 22A21A0110
SGPA: 9.09	SGPA: 9.44	SGPA: 9.02

Department Activities

1. Alumini Meet at Hyderabad on 9th July 2023
2. A two day workshop on "Differential Global Positioning System "on 28th to & 29th Aug 2023.
3. A five day workshop on "Primavera "on 23rd to 28th June, 2023.
4. A One Week Workshop On "Revit Architecture Using BIM" On 16th June -23 To 22nd June-2023
5. A five day workshop on "AUTO CAD 3D"from 8th june-2023 to 15th June 2023
6. Celebrated Engineers Day on 15th Sep, /2023
7. Guest Lecture on "Introduction of Space programme Satellite Communication and Glorious Soft Tough down of Lander on 28th Sep, 2023.

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.
Devika Yerramsetty
Design Engineer
(Batch2017-21).

Students' 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.
S.SM Harika
Rg.no 20A25A0103

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
Smart, Efficient & Sustainable HVAC Systems

Heating, ventilation and air conditioning (HVAC) systems keep buildings comfortable and air healthy to breathe. Mechanical engineers design the complex HVAC equipment for homes, offices and factories. Smart temperature and humidity sensors reduce energy use. Mechanical engineers are also working to electrify and decarbonize HVAC systems through innovations like electric heat pumps. Looking ahead, HVAC technology will continue improving. Mechanical engineers might design self-regulating HVAC systems using AI, develop new thermal materials for ultra-efficient heat exchangers.

Faculty Focus
Papers published by Faculty

S. No	Name Of the Faculty	Journals Details	Paper Title	ISSN / Published year
1.	Dr. M. Francis Luther King; Dr. G. Robert Singh; Mr. P Satya narayana Raju; Dr. A Gopichand; R. Lalitha Narayana	Materials Today: Proceedings	An Experimental Study on Friction Stir Processing of Aluminium Alloy (AA-2024) and Boron Nitride (Bn$_p$) Surface Composite	ISSN 2214-7853, 2023
2.	Dr. R.Sanjeev Kumar; M. Francis Luther King	Engineering Research Express	Influences of various natural fibers on the mechanical and drilling characteristics of coir-fiber-based hybrid epoxy composites	ISSN 2631-8695, 2023
3	Dr. R.Sanjeev Kumar	Materials Science Forum	Influences of Fabrication Parameters on Natural Fiber Reinforced Polymer Composite (NFRPC) Material: A Review	ISSN 0255-5476, 2023

| 4 | Dr. M. Francis Luther King | Advances in Materials Science and Engineering | Acrylic Rubber-Reinforced Halloysite Nanotubes/Carbon Black Hybrid Fillers for Oil Seal Applications: Thermal Stability and Dynamic Mechanical Properties | ISSN 1687-8442, 2023 |
| 5 | Mr. P Satya narayana Raju; Dr.Allaka Gopichand | Australian Journal of Mechanical Engineering | Inexpensive Production of Hydrophobic and Corrosion Resistance Titania-Silica Composite Coating for Deep Water Sandwich Pipe Applications | ISSN 1448-4846, 2023 |

FDP/Seminars/Workshop/Webinar Attended by Faculty

S. NO	Name of the staff	Total number of Seminars/Workshop/ Webinar/ FDP	Book Chapter Publication
1	Dr. A. Gopichand	3	2
2	Dr.Francis Luther King M	10	11
3	Dr. R Sanjeev Kumar	1	2
4	G Veerendra Kumar	4	
5	Mr.S.Surendar	5	
6	Mr.L.Ravi Kishore	1	
7	Dr. D.Bhanu Prakash	2	
8	Mr.Abdul Azeez	2	
9	Mr.Rambabu	1	
10	Ms.B.Haritha	3	
11	Mr.N. Bulli Raju	4	
12	Dr. R.Lalith Narayana	2	
13	Mr.M.Sarvanan	1	
14	Mr.CH Harish Kumar	3	
15	Mr.V. DurgaRao	1	
16	Dr. G. Robert Singh		2
17	Mr B Mahesh Krishna	2	1

Important Events in the Department

S.NO	EVENT NAME	EVENT	DATE	RESOURCE PERSON
1	Recent Advancements in Materials Manufacturing and Technology	One week FDP	30-10-23 to 4-11-23	Dr. U. Mohammed Iqbal, Professor Department of ME, College of Engineering & Technology, SRM

"The best brains of the nation may be found on the last benches of the classroom."-Abdul Kalam

DEPARTMENT OF MECHANICAL ENGINEERING
WE MOULD THE WORLD

	(RAMMT -2023)			University,Kattankulathur Chennai
2	Expert Lecture On Electric and Hybrid Vehicles	Guest lecture	28-7-23	Dr K Kamalakkannan Assoc Prof, Dept of AE, SRM University ,Chennai
3	Guest lecture on Biomechanics and Gait	Guest lecture	5-8-23	Dr N Shramila Professor, Dept. of Sensor and Biomedical Technology VIT University, Tamilnadu
4	Can Mechanical and Electronics Engineers Boost the Development of Biomedical Devices?	Guest lecture	19-9-2023	Dr Prasad Patnaik B S V Professor, Dept. of Applied Mechanics, IIT Madras.
5	Instructional Design and Delivery Systems	One week FDP	20-11-23 To 25-11-23	Prof, C R Nagendra Rao, Civil Dept., NITTR

Guest lecture by Dr Prasad Patnaik B S V Professor, Dept. of Applied Mechanics, IIT Madras.

Students' Focus
Placements
31 students were selected in WABCO Industry, Chennai.

Academic Toppers

III SEM
Vasa Bala Ganesh
23A25A0349
SGPA : 9.43

III SEM RBT
Yerigala Obul Reddy
22A21A6422
SGPA: 9.16

V SEM RBT
Divi Likhitha
21A21A6406
SGPA: 9.02

V SEM RBT
Throvagunta Khajaval
21A21A6421
SGPA: 9.02

V SEM
Dunna Sannath Kumar
22A25A0315
CGPA : 9.27

V SEM
Ande Vinayaka Venkata Siva Sai
22A25A0302
SGPA: 9.3

VII SEM
Ainapudi Surendra
21A25A0301
SGPA: 8.96

VII SEM
Vanka Rakesh
20A21A0371
SGPA: 8.96

VII SEM RBT
Galavelli Sumanth Naidu
20A21A6406
CGPA:8.56

Students' Achievements

☞ Adabala Sravani, K Ganesh, G Haresh the students of III year mechanical secured the first prize in drawing and essay writing competition organized by Sri Krishna Committeeon 8th August 2023.

☞ Vanka Rakesh the student of final year mechanical participated in International Conference on Advanced Materials, Modern Manufacturing and Computerized Automation, organized by PSN College of Engineering and Technology, Tamilnaduon

☞ Bhaskar Teja,the student of third year mechanical secured the first prize in project expo conducted by PALS, Chennai on 14th December, 2023

☞ M. Bhavani, B Bhargavi, D Likhitha the students of third year Robotics won the third prize in the event VALIANT 2K23 organised by VIT College Bhimavarm.

Industrial visit to Indian oil cooperation limited

Bhaskar Teja secured the first prize in project expo conducted by PALS, Chennai.

Alumni's Voice

I am proud to be a student of swarnandhra.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.
Naga Venkata Krishna Pulaparty
Senior Quality Engineer
Cigniti Technologies, (2007-2011)

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.
Suddapalli Sri Vaishnavi
IV Robotics
Rg 20A21A6413

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
Quantum Computing
Quantum computer is a computer that exploits quantum mechanical phenomena. On small scales, physical matter exhibits properties of both particles and waves, and quantum computing leverages this behavior using specialized hardware. Classical physics cannot explain the operation of these quantum devices, and a scalable quantum computer could perform some calculations exponentially faster than any modern Classical computer.

Faculty Focus-Publications

Faculty name	Designation	Published under	Volume/issue/date
Dr.RVVSV Prasad	prof	UGC	ISSN: 2278-4632
Mr.CH.R.K.Raju	Asst. prof	NCDT	ISBN :978-93-59152240

Workshops Attended by Faculty

| Faculty name	Designation	Workshop/Fdp	Organised By	Date
K.S.S. Narayana	Assoc. prof	Applications of Business Analytics	Ramaiah Institute	9th-13th Oct 2023
K.S.S. Narayana	Assoc. prof	DeepLearning for NLPand Computer Vision	CBIT	10th-28th July 2023
K.S.S. Narayana	Assoc. prof	Virtual labs	NITK	26th-29th Sep 2023
CH.R.K.Raju	Asst. prof	Cyber Security	CBIT	25th-14th Oct 2023
CH.R.K.Raju	Asst. prof	Nlp and ChatGPT Applications	SECAB	14th-19th Aug 2023

Certification Courses Completed by Faculty

Faculty name	Designation	Certification course	Organised By
Dr.RVVSV Prasad	Prof	Software Conceptual Design	NPTEL
K.S.S. Narayana	Assoc. Prof	Cybersecutiry & Privacy	NPTEL
Mr. K.Raja	Asst. Prof	DSA Using JAVA	NPTEL
Mr k.Bhanuchand	Asst. Prof	Introduction Of IOT	NPTEL
Mr.CH.R.K.Raju	Asst. Prof	Research Methodology	NPTEL
Mrs R.Uma Aruna Devi	Asst. Prof	Introduction Of IOT	NPTEL

Department activities
❍ Debate competition was conducted on One Nation One Election on13th Sep 2023

❍ Blockchain Technology on 18th, 19th July 2023 by Ditto security innovation
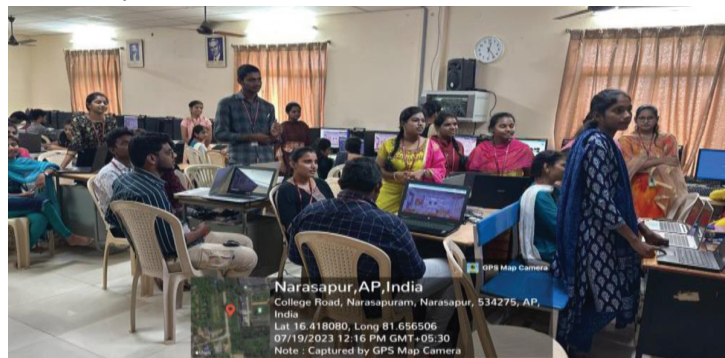
Students' focus
Academic Toppers

A. DIVYA	P. PRASANNA	N. SRIKARI
20A21A1206	21A21A1241	22A21A6534
VII SEM	V SEM	III SEM
CGPA:9.42	CGPA: 8.75	CGPA:9.33

Alumini's voice

I am proud to be part of swarnandhra college that 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.
V.M.Nikhil
Software Engineer, Einfratech

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.
G. Chaitanya Veerredy
Rg.No20A21A1222

"NEVER TRUST A COMPUTER YOU CAN'T THROW OUT A WINDOW."- STEVEN WOZNIAK

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

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 in Power Systems

Artificial Intelligence (AI) is making its mark in electrical engineering, particularly in power systems. AI can analyze vast amounts of data to predict power demand, identify faults in the power grid, and optimize energy use.Engineers are using AI to develop smart meters that can provide detailed information about power usage and help consumers reduce their energy consumption. They are also using AI to monitor the power grid and quickly identify any faults or issues, which can help prevent power outages and improve the reliability of the power supply.Moreover, AI is playing a role in the integration of renewable energy sources into the power grid. It can predict the output of renewable energy sources based on weather data, which can help manage the intermittent nature of renewable energy. AI can also optimize the storage and use of renewable energy, helping to ensure a stable power supply.

Faculty Focus
Workshops/FDP attended by Faculty

S No	NAME	Program Description	Start date	End date	Organised By
1	Dr Y Venkatesh Mrs M Surya Kumari Mr P R C Murthy Mr A V D Suresh Mrs K K D Bhavani	Instructional Design & Delivery Systems	20th Nov 23	24th Nov 23	NITTR, Chennai
2	Mr A V D Suresh	Cloud Computing	Jul 2023	Oct 2023	NPTEL
3	Mr P R C Murty Mrs K K D Bhavani	Data Base Management System	Jul 2023	Sept 2023	NPTEL
4	Dr M Sridhar Mrs K K D Bhavani	Virtual Labs	26th Sep 23	29th Sep 23	NIT Surathkal
5	Mr B Subrahmanyam	Industry assisted online lecture series on Electrical Vehicles	10th Aug 23	07th Sep 23	PALS, Chennai

Papers Published in Journals/ Conferences by Faculty

| S N o	Name of the Faculty	Journal/ Conference Details	Paper Title	ISSN
1	Dr Y Venkatesh Mr P R C Murthy	3rd International Conference on Innovative Research in Renewable Energy Technology	Industrial Production of Titania Nanoparticle through Sol-gel synthesis and their investigation on structural, optical and dielectric properties for transformer applications	---
2	Dr Y Venkatesh Mr A Satyanarayana	Optical Materials, 147, 114770.	A novel methodology in fabricating dielectric reflectors for the desired wavelength spectrum using sol-gel spin coating technique	https://doi.org/10.1016/j.optmat.2023.114770
3	Dr Y Venkatesh	*Results in Optics*, 13, 100559.	Cost-effective production of radiation shielding coatings using multilayers of titania and silica	https://doi.org/10.1016/j.rio.2023.100559
4	Dr Y Venkatesh	ICNOC 2022. Springer Proceedings in Materials, vol 28. Springer, Singapore.	Inexpensive Fabrication of Visible Dielectric Reflector for Improving the Performance of Visible Light Communication	

| 5 | Dr Y Venkatesh Mr A Satyanarayana Mr PRC Murthy | J. Nano- Electron. Phys. 15, 03025 (2023). 10.21272 /Jnep.15(3).03025. | Sol-Gel Synthesis Of Titania Nanoparticles For Photonic And Transformer Applications, | |
| 6 | Dr V Madhu Mrs G Vasanthi | 2023 IEEE Global Conference on Information Technologies and Communication, 1st to 3rd December 2023 | DC Rapid Charging Architecture in a Microgrid for VTG Technology | Reva University, Bangalore. |

Patents Granted to our Faculty

- An India patent has been granted on "A Dip-Coater System for Fabrication of Hydrophobic Coatings on Cotton Fabric andits Method thereof" to Dr. Venkatesh, Y. A. Satyanarayana.
- An India patent has been granted on "A system and process for fabricating a seven-layer ultraviolet and near-infrared Titania/Silica reflector" to Dr. Venkatesh, Y. A. Satyanarayana.
- An India patent has been granted on "A system and process for synthesizing tio2-sio2 composite and fabricating coatings on a glass substrate" to Dr. Venkatesh, Y. A. Satyanarayana.

Department Activities

- Conducted PALS Industry assisted lecture series on "Hybrid Electric Vehicles"for EEE staff & students from 10th to 31st Aug 2023.
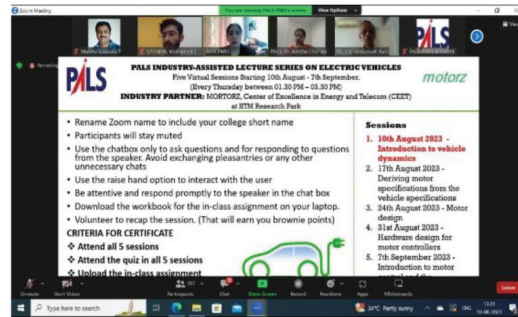
- ConductedPainting Competition on Independence theme on 11th Aug 2023.
- Home Energy Preliminary Audit has been conducted by Ensave Club from 21st to 26th Aug. 2023.
- Workshop on Aurdino with Thinkers was conducted on 19th to 21st 2023.
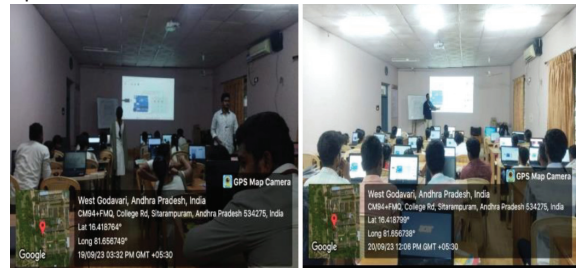
- A Technical Quiz was conducted on Renewable and Non-Renewable Energy Sources on 11th Oct 2023.
- A Technical Quiz was conducted on Electrical machines on 26th Oct 2023.
- Alumni Meet was conducted in Hyderabad for all old students on 9th July 2023.

- Ayudha Puja was conducted in the department as part of Dasara Festival celebrated on 21st Oct 2023.

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

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

- Faraday's Day Celebration were organized by EEE Students on 22nd Sep 2023.

Mr. Madhu Valavala, Associate Professor has been awarded with Best Academician Award in Connect AIRE-2023 by Sahasra Research Foundation on 01-10-23 in Vijayawada.

- Mrs. K K D Bhavani has got NPTEL Certification in "Database Management System" in Jul-Sep 2023 duration.
- Dr. M Sridhar, Mr. V Madhu, Mrs. KKD Bhavani has been attended FDP on Virtual Labs from 26th - 29th, Aug. 2023 organized by PALS, NITK, Surathkal.
- Dr V Madhu has been awarded with Ph.D Degree in Power Systems.

Students' Focus

- Students were participated in dance performance as part of cultural program.
- Students were participated in Essay Writing & Elocution Competition organized by Hare Krishna Foundation in Narsapuram on 8th Aug 2023.

- Mr. K Ajay Mahesh, III Year student has won 2nd prize in an event conducted by PALS held in IIT, Madras.
- Mr. Rajesh, II Yr Student was Runner in Badminton(Doubles) in Valiant 2k23, VIT-Bhimavaram held on 29th to 30th Dec 2023.
- Mr. Rajesh, II Yr Student was Winner in Badminton(Singles) in Valiant 2k23, VIT-Bhimavaram held on 29-12-23 & 30-12-23.

- Various activities have been conducted on the occasion of Engineer's Day from 29th to 30th Dec 2023.

Engineer's Day "Aurora 2k23" celebrated

Placements

28 students got selected in various MNC organizations such as One Yes Info Tech Solutions, Tefologic, IndurePvt. Ltd, DeseinPvt. Ltdwith attractive package.

Academic Toppers

Ch Hari Hara Raju
V Sem
20A21A0212
CGPA: 8.40

D Sai Praveen
VII Sem
20A25A0225
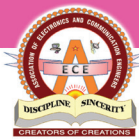CGPA: 8.06

Alumni's Voice

I am very happy to share my achievement on this occasion, that I got a placed inRenew Power with the good package. For this I am very thankful to the placement team and management of our College and a special thanks to each and every member of my department faculty who have guided me in many aspects.
Sai Charan
A.E. Renew Power

Student's Voice

Firstly, thanks to the department and management of SCET for supporting me in all the activities. I am grateful to the dept to IEEE Student Branch for raising me from a student to one of the responsible citizen of our country. Thanks to each and every one including non-teaching staff too! I would like to say one last thing that I've learned from the college that if you have zeal to learn then you can learn from the rock too.
D Sai Praveen
Reg. 20A25A0225

"A great aim of education is not knowledge but action - Herbert

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
Automotive Electronics

It is used to control and monitor the internal system of cars. It is the process of building cars. It adds functionalities to cars such as powerful engines, electromechanical systems, fuel or battery. IOT makes the cars connected and the data. Car temperature will be sent to your smart phone which you can use to monitor your car conditions.

Workshops/Conferences attended by faculty

Faculty Name	Designation	Name of workshop/Conference	Organised by
Dr. Y. S. V. Raman	Assoc.Prof.	Instructional Design and Delivery System	National Institute of Technical Teachers Training & Research
Mrs.M. Radha Rani	Assoc.Prof.		
Mr.R. R. V. S Gupta	Asst.Prof.		
Mrs. B. Pavani	Asst.Prof		
Mr. I .V. Ravi Kumar	Assoc.Prof.	Cloud Infrastructure	Swarnandhra College of Engineering & Technology

Papers Published By Faculty

Faculty Name	Designation	Title of the paper	Published under	ISSN/ISBN/Date/Year
Mr. Sekhar Didde	Assoc Prof.	Sol-Gel Synthesis of Caznal2o4 Ceramic Nanoparticles and Investigation of their Properties	Kuwait Journal of Science	2307-4108, 12th June 2023
Dr. Siragam Srilali	Prof	Investigation Of V2O5-Znal2o4 Composite Nanoparticles for C-Band Microstrip Patch Antenna Applications	Kuwait Journal of Science	2307-4108 12th June 2023
Mr.T Jerry Alexander	Prof	Hybrid Feature Extraction Technique for Electrocardiograph Arrhythmia Signal Classification	Conference Procedings	1518-1524, 10th August 2023
Dr. Siragam Srilali	Prof	Characterization of Tixzn(1-X) Al2O4 Nanoparticles by Sol-Gel Method for Wireless Patch Antenna Applications.	Results in Optics	2666-9501 Elsevier, 29th Sep 2023
Dr.D. Nataraj	Prof	A Circularly Polarized Antenna for UHF Satellite Communication Applications	Journal of Communications	1796-2021, 5th Oct 2023
Mr. Sekhar Didde	Assoc. Prof	Experimental Investigation of Calcium-Doped Zinc Aluminate Nanoparticles as a Promising Material for Microwave Applications	Acs-Omega	2470-1343, 5th Oct 2023

"Education is the most powerful weapon which you can use to change the world". NELSON MANDELA

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

Dr.K.BalaMurugan	Prof	Cost-effective production of radiation shielding coatings using multilayers of titania and silica	Results in Optics	2666-9501 / 06-10-2023
Dr.K.BalaMurugan	Prof	Development of SRAM-APB protocol interface and verification	Engineering Research Express	2631-8695 / 13-10-2023
Mr. Sekhar Didde	Assoc.Prof	Exploring the Preparation of Calcium-Doped Zinc Aluminate Ceramic Nanoparticles for Microstrip Patch Antenna Fabrication	Materials Science Forum	1662-9452 / 06-11-2023
Mr. B Ramana Kumar & Mr. B. Sada Siva Rao	Prof	Iot based Smart Baby Cradle	IJRAR	(E) 2348-1269, (P) 2349-513

NPTEL Certification

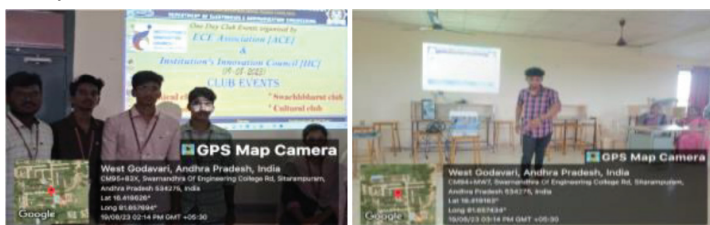| S.No	Faculty Name	Designation	Certified Course
1	Dr. K. Balamurugan	Assoc Prof	Data Science for Engineers
2	Dr. T. J. Alexander	Assoc Prof	Data Science for Engineers
3	Mr. V. Satya Kishore	Asst Prof	The Joy of Computing using Python
4	Mrs. M. Kanaka Durga	Asst Prof	Discrete time Signal Processing
5	Mrs. E. Suma	Asst Prof	The Joy of Computing using Python
6	Mrs. G. Santhi Kumari	Asst Prof	Digital Circuits

Faculty Achivements

Dr. S. Srilali Successfully Completed his Doctorate in the Antennas &Nanomaterials area from KLU University, Guntur.

Dr. D. Nataraj published a Book on "Digital Signal Processing" under Indo-Continental Academic publishers, 1st Edition, August 2023

Department Activities

- Conducted a one day club with different activities for II year Students.

- A one day National Event organized by IETE student forum on the occasion of Engineers' Day.

Students' Achievements

- M. Sai Mohan & P.S.V. Ramaraju students of VII semparticipated in International Conference organized by IEEE COMSOC/SPS Joint Chapter on 9th & 10th Oct 2023.
- P. Thanusha & V. Gayathri from 3rd year won the first prize in Technical symposium conducted by Vishnu Institute of Technology on 29th& 30th Dec. 2023.

Student placements

115 students got selected 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
22A21A428
III Sem
SGPA :9.35

B.Yamini Durga
21A21A0427
V Sem
CGPA:9.33

M. Sai Mohan
20A21A04D9
VII Sem
SGPA:9.22

Alumni's Voice:

I graduated from Swarnandhra College of Engineering &Technology . I am proud to say that my college has the best infrastructure with good facilities.Our management provided good training & placement programs. HOD & faculty members are very supportive and help the students to reach their goals.
K. Manikanta, Associative Software Engineer
Bosch Global Software Technologies (2019-2023Batch)

Student's Voice

I am proud to be a student of SwarnandhraCollege of Engineering &Technology. Our management is providing many placement opportunities for students to make their future beautiful with good training. All the faculty are very supportive in academics

Sai Chandana

20A21A04C1, Final year

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

Black Box AI
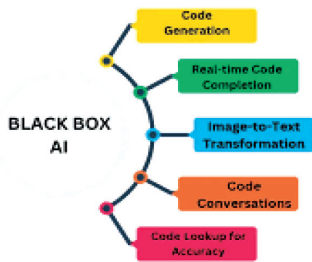
Black box AI typically refers to artificial intelligence systems or models whose internal workings are not transparent or easily interpretable by humans. In essence, it means that while these AI systems can produce accurate results or predictions, it's challenging to understand how they arrive at those conclusions. This lack of transparency can raise concerns about accountability, ethics, and biases in AI decision-making processes.

Faculty Focus
Workshops attended by Faculty

S No	Name of the Faculty	Program Description	Start Date	End Date	Organized by
1	S. P. Sudha	Instructional Design and Delivery Systems	20th Nov 2023	24th Nov 2023	National Institute of Technical Teachers Training and Research, Chennai
	R. Prasanthi Kumari				
2	Dr. B. Rama Krishna	Convolutional Neural Networks with Generative Adversarial Networks	11th Dec 2023	16th Dec 2023	Sir C R Reddy College of Engineering, Eluru

S No	Name of the Faculty	Journal details	Paper Title
1	Dr. B. Rama Krishna	ICMEET 2023	Machine Learning approach of Stent placement for Coronary Artery Disease Patients – A Hypothetical Approach
2	B.AswaniDevi	International Journal of Engineering Research & Technology	Securuty privay and maintaining Data confidentially are fundamental principles for establishing a trustworthy Database
	S.P. Sudha		
	G. Jhansi		
	Ch.Chandrika Surya		

Papers published in journals / Conferences by Faculty
Certification courses completed by Faculty

S No	Name of the Faculty	Program Description	Organized by	Date
1	V. Durga Rao	Python for Data Sceince	NPTEL	July-2023

Department Activities:

● Teacher's day was celebrated on 5th September 2023.

● Machine Learning workshop was conducted to 3rd year students by Mrs. Sripada V S S Lakshmi on 7th & 8th September 2023.

"Before software can be reusable it first has to be usable." - Ralph Johnson

DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING
EMPOWERING INNOVATION THROUGH INTELLIGENCE

- On the occasion of VinayakaChaturdhi Eco Friendly Ganesh Idols were distributed to all the staff and students on 16th September 2023.

- SARASWATHI POOJA was done on 19th October 2023.

Students' Focus
Academic Toppers

A.J. Sri Nikhila
20A21A6122
VI SEM
CGPA: 9.43

Vasa PurnaPraneeth
21A21A6162
IV SEM
CGPA: 9.63

P.B.V.V. Lakshmi
22A21A6184
II SEM
CGPA: 9.69

Students' certifications:

In August 2023, 120 students achieved certification in C and C++ programming through a comprehensive course organized by Spoken English Tutorial, with expert guidance from Dr. B. Rama Krishna.

The course was designed to equip students with practical skills in programming, focusing on two of the most foundational languages in the tech industry: C and C++. Under the mentorship of Dr. B. Rama Krishna, a respected figure in the field, the program offered an in-depth curriculum that covered fundamental concepts and advanced techniques.

Student's Voice

I feel proud to be a student of the AI & ML Department. It has the best faculty and good infrastructure. The role of the faculty in the process of shaping the students' learning experience is

excellent. Their commitment to staying at the forefront of industry advancements ensures that we receive up-to-date knowledge and practical skills. Additionally, the state-of-the-art facilities and resources available to us provide an ideal environment for innovation and research, further enhancing our educational journey.

K. Thrivalya
20A21A6131

AI is a mirror, reflecting not only our intellect, but our values and fears - Ravi Narayan

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

5G Technology:

The rollout of 5G networks is poised to transform various industries by enabling faster data transfer rates, lower latency, and greater connectivity. This technology opens up possibilities for innovations in areas such as augmented reality (AR), virtual reality (VR), remote healthcare, and autonomous vehicles.

Augmented Reality (AR) and Virtual Reality (VR): AR and VR technologies are finding applications beyond gaming and entertainment. They're being utilized in fields like education, training simulations, architecture, healthcare (e.g., surgical training), and remote collaboration tools.

Faculty Focus
Workshop/ FDPS attended by Faculty

Faculty Name	Name of Workshop/ Seminar/FDP/NPTEL	Organized by
A N L Kumar	Attended a 5 day FDP on Chat GPT and Prompt Engineering	Bharathi Vidyapeeth Engineering College, Mumbai, from 18th to 23rd Dec, 2023.
	Attended a 6 day FDP on NLP and Chat GPT Applications	ExclR, Hyderabad from 14th to 19th Aug, 2023.
	Completed a Certification Course on Data Science Architect	Intellipat on 26.09.2023
	Completed a Certification Course on Power BI	Intellipat on 26.09.2023
Dr. B. Gohin	Attended a 5 day FDP on Cloud Infrastructure (AWS)	Thiruthangal Nadar College in Collaboration with AICTE & Brainovision, from 21st to 25th Aug, 23.
M. Rama Bhadra Rao	Attended a one day FDP on ReactJS Basic	Pantech E Learning on 22-08-2023
	Attended a one day FDP on Big Data Hadoop	Intellipaaat on 23-08-2023
	Attended a 5 day FDP on Chat GPT and Prompt Engineering	Bharathi Vidyapeeth Engineering College, Mumbai from 18th to 23rd Aug, 23.
	Attended a one day FDP on Python for Data Science	Intellipaaat on 03-09-2023
S. Aruna	Attended a one day FDP on Cyber Security	ChaitanyaBharathi Institute of Technology (CBIT) in Collaboration with ExcelR On 14-10-2023
	Attended a one day FDP on NLP and ChatGPT Applications	SECAB Institute of Engineering & Technology in Collaboration with ExcelREdtech Pvt. Ltd., on 19-08-23
	Attended a one day FDP on Deep Learning for NLP and Computer Vision	ChaitanyaBharathi Institute of Technology (CBIT) in Collaboration with ExcelR on 28-07-2023

	Completed a Certification course on Python for Data Scoence	Intellipat on 08-09-2023
CH. Suresh	Attended a 6 day FDP on NLP and Chat GPT Applications	ExclR, Hyderabad from 14th to 19th Aug, 2023.
	Attended a 8 day FDP on Basics of Programming with Java	Exclr, Hyderabad from 4th to 12th Dec, 2023.
	Attended a 6 day FDP on Cloud Infrastructure(AWS)	Swarnandhra College of Engineering and Technology from 21st to 25th Aug, 2023.
	Attended a one day FDP on Deep Learning for NLP and Computer Vision	ChaitanyaBharathi Institute of Technology (CBIT) in Collaboration with ExcelR on 28-07-2023

Department Activities

- Orientation Programme on 12th Oct. 2023

- A workshop on Communication Skills on 13th Oct. 2023

- Graduation Day on 4th Oct. 2023.

MASTER OF COMPUTER APPLICATIONS

PEOPLE WITH PASSION TREND TO BE INNOVATIVE

- Skills Enhancement Program on 14th Dec 2023

- Alumni meet at Hyderabad on 9th Jul 2023

- Conducted Oral Activities (Group discussion) on 30th Aug 2023.

Students' Focus
Academic Toppers

Ch Dhana Sri
21A21F0010
IV Sem 8.88 CGPA

K Vasantha Lakshmi
21A21F0030
IV Sem 8.65 CGPA

M Leela Niharika
21A21F0040
VI Sem 8.65 CGPA

K Pavan Kumar
22A21F0050
II Sem 9.39 CGPA

J Ramya
22A21F0041
II Sem 9.21 CGPA

B Gayatri
22A21F0011
II Sem 9.06 CGPA

PYNDV Kishore
22A21F00A4
II Sem 9.3 CGPA

V Geethika Rani
22A21F00C2
II SEm 9.25 CGPA

P Venkanna
22A21F00A6
II Sem 9.03 CGPA

Students' Placements

- 13 students got selected in Vts Solutions

- Ch. Abhinaya placed in Constient Gold Solutions with high package.

Students' Achievements

- Certification course on "Java Complete course" Completed by 3rd Sem students.
- Certification course on "Microsoft's Azure Adminstration Associate" Completed by 3rd Sem students.
- Students of 4th Sem completed Certification course on "Microsoft's Azure Data Engineering Associate".
- Students of 4th Sem completed Certification course on "Python Programming".

Alumni's Voice

My time at Swarnandhra College of Engineering and Technology was transformative. The rigorous coursework 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 am grateful to the management of Swarnandhra College for providing various training programmes in tha campus, which help to hone our skills and make us to face any challenges in life.
Kavali Mounika
Reg No: 23A21F0097

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
Green management focuses on environmental conservation for the sustainable development ofbusiness activities. It focuses on promotions of green technology that presents the most viable way of meeting with the new green-related activities. In today's business environment managers have to take a step to protect and preserve the natural environment. To save natural resources most of the large organizations are using renewable energy sources, adopting new technology that reduces energy consumption, preserves forests, and conserves water for future use.

Faculty Focus
● Mrs.V.Christycompleted four NPTELcertification courses on Entrepreneurship, Intellectual Property Rights & Competition Law, Organization Behaviour, and Research Methodology.
● Mr.Ch.Srinivascompleted NPTEL certification course on Business & Sustainable Development.
● Mrs.V.Christycompleted MOOCScertification on Research & Publication Ethics.

WorkshopsConferences/Publications by Faculty

Faculty Name	Name of Workshops/Seminars	Organized by/Published
Dr.N.G.S.Prasad	Paper Published on Emerging Diverse Talent In Corporate Sector"	ISBN No: 0970-8405
	Patents Published on An Artificial Intelligence Based Human Resource Management System For Managing Worker Resource And Industrial Process	Published on 5th May 2023 **Application number:** 202341029627A
Mr.Ch.Srinivas	Attended a session on Financial Sector – Catalyst for Development of Emerging Economies	Association of Indian Management schools (AIMS) on 2nd June 2023
Mrs.V.Christy	Participated in a 2 week FDP on National Education Policy 2020: Education for Sustainability	From 30th Oct 2023 to 11th Nov 2023 at JNTUA College of Engineering
Mrs. J.Veena Dhuri Mrs.T.Hima Ms.K.Roja Mr.Ch.Srinivas	Attended a one week FDP on Instructional Design Delivery Systems	NITTTR, Chennai from 20th to 24th Nov 2023
Dr.G.Grace Dr.N.G.S.Prasad Mrs.V.Christy Mr.Ch.Srinivas	Participated in National level FDP on Financial Econometrics using E-Views	Vardhaman College of Engineering, Hyderabad on 26th Nov 2023

Students' Focus : Academic Toppers

Name: Y.Vineela
Reg.No: 21A21E 0050
IV Sem CGPA: 8.16

Name: G.Sai Supreme
Reg.No: 21A21E 0015
IV Sem CGPA: 8.02

Name: Ch.Shanmukh
Reg.No: 22A21E 0015
II Sem CGPA: 8.67

Name: Ch.Priya
Reg.No: 22A21E 0055
II Sem CGPA: 8.22

Department Activities

స్వర్ణాంధ్ర కళాశాలలో జీవన నైపుణ్యం పై శిక్షణ

నరసాపురం రూరల్, మేజర్న్యూస్: మందలంలోని సీతారాం పురంలో గల స్వర్ణాంధ్ర ఇంజనీరింగ్ కళాశాలలో జీవన నైపుణ్యం పై శిక్షణా కార్యక్రమాన్ని నిర్వహించారు. శనివారం జరిగిన ఈ కార్యక్రమానికి ట్రైనర్ గా విఎస్ఎన్ రావు హాజరై మాట్లాడుతూ వృత్తి నైపుణ్యం అనేది ప్రతి విద్యార్థికి అవసరం అన్నారు. మారుతున్న పరిస్థితులకు అనుగుణంగా సాంకేతిక పరిజ్ఞానాన్ని అందిపుచ్చు కోవాలని ఆయన అన్నారు. కళాశాల ట్రైఎస్ కేపీ సత్యనారాయణ మాట్లాడుతూ తమ కళాశాలలో నిరంతరం విద్యార్థులకు అవసరమైన ప్రోత్సాహకాలు అందిస్తూ ఉంటామన్నారు. ఈ కార్యక్రమంలో కోఆర్డినేటర్ కొండవీటి త్రినాథ్, డైరెక్టర్ అద్దాల శ్రీహరి, ప్రిన్సిపాల్ డాక్టర్ ఎస్ సురేష్ కుమార్, డాక్టర్ పందరినాథ్, ఎంబీఏ ఎంసీఏ విద్యార్థులు, అన్ని విభాగాల హెచ్ ఓ డి లు పాల్గొన్నారు.

Organized Training programme on Life Skills Development from 16th to 18th Aug. 2023

Industrial visit to Sangam Dairy, Vadlamudi &JOCIL Soap Industry, Dokiparru, Guntur on 2nd September 2023

Organized Marketing Mania : to articulate the importance of Customer Relationship management in the college campus on 20th Oct 2023.
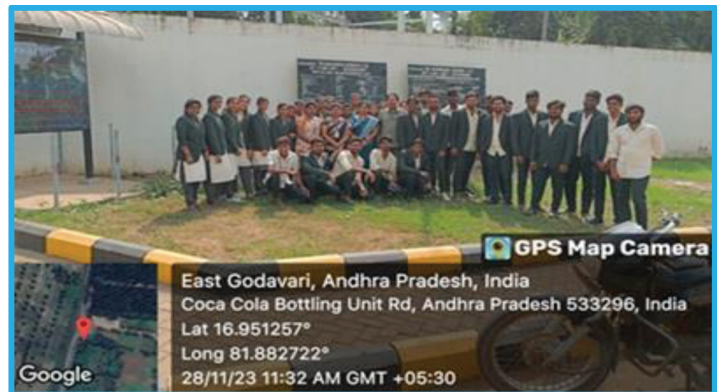
A Leader is one who knows the way, goes the way, and shows the way - John Maxwell

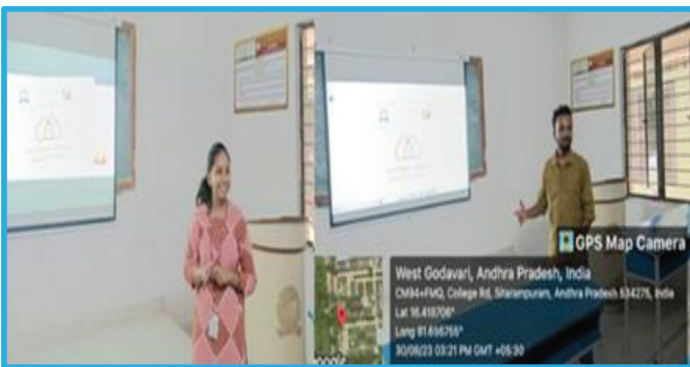# SCHOOL OF MANAGEMENT STUDIES
Todays Learning Tomorrow Leading

Conducted Awareness programme on Consumer Rights on 12th Dec. 2023

Industrial visit to Sri Sarvaraya Sugars Ltd, Coca Cola Bottling unit, Kesavaram, E.G.Dt on 28th Nov. 2023

Conducted Awareness programme on National Small Industry on 30th August 2023

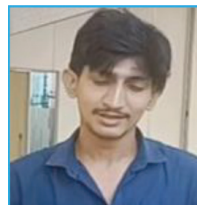Organized Workshopon Communication Skills on 17th Oct. 2023

Conducted Webinar on Angel Investement Funding Opportunity for Early Stage Entrepreneurs" on 31st Aug 2023

Organized Industry Interaction session on 21st Aug 2023 by Mr.Sasidhar from Oracle.

Alumni's Voice

The department encouraged me to continue believing that 'normal' does not exist nor 'truth' in most cases. Things are mostly points of views and each is worth listening to understanding and integrating.
Mr. Yugandhar Chegondi
Accounting Analyst & Process Developer, Amazon (2016-18 Batch)

Student's Voice

The student friendly environment in the premises explores the potential and the hidden talents of students. The institution never compromises on its quality. My experience here is the best part of my student life.
Bandi Mounika
22A21E0010 MBA II Year

Organized Traditional Day on 10th Oct. 2023

The best preparation for tomorrow is doing your best today - H. Jackson Brown JR

COMPUTER SCIENCE AND ENGINEERING

We rise…We rule

Vision

❖ To empower Computer Science Engineers as highly proficient, innovative, self-driven, and socially responsible professionals by offering a multidimensional education.

Mission

❖ Empowerment of Computer Science Engineers: To empower Computer Science Engineers through comprehensive education, fostering high proficiency.

❖ Multidimensional Education Focus: To provide a diverse education, equipping engineers with skills to navigate the global needs

❖ Development of Proficiency and Innovation: To ensure graduates are well-prepared to address technical issues with creativity and innovation.

❖ Social Responsibility and Professional ExcellenceTo in-still a strong sense of commitment, shaping graduates into socially responsible professionals and self-driven.

Technological Trends

Generative AI: Expanding Innovation Horizons

Generative artificial intelligence (AI) is revolutionizing various sectors by creating original content through advanced algorithms. This technology is not only producing text and images but is being applied in fields like drug discovery and engineering. For instance, NASA is developing AI systems to create lightweight space instruments, significantly reducing development time. In education, students are using generative AI to enhance learning, with some institutions embracing its potential while others impose restrictions. Despite its benefits, concerns about job displacement arise as tools like ChatGPT improve productivity. The emergence of autonomous AI systems, such as AutoGPT, presents both excitement and challenges. Establishing public trust in these technologies is vital, emphasizing the need for ethical guidelines, bias mitigation, and privacy protection. With the right frameworks, generative AI can enhance creativity and foster innovative thinking, ensuring its benefits are shared throughout society.

Faculty Publication

Faculty Name	Designation	No. of Publications		
		UGC	Scopus	SCI
Mr. K. Rajesh Kumar	Asso. Prof.	2	-	-
Mr. B. S. Varaprasad	Asst. Prof	1	-	-
Mr. N. TulasiRaju	Asso. Prof.	2	1	-
Mr. Subhabrata Sinha	Asst. Prof	1	-	-
Mr. P Srinu Vasarao	Asst. Prof	3	2	-
Mr. M Satyanarayana	Asso. Prof.	1	-	-
Mr. M. Vijaya Raju	Asst. Prof	-	1	1
Ms. Archana Gelli	Asst. Prof	1	-	-

Patents

Faculty Name	Designation	Patent Name	Country	Year
Mr. P Srinu Vasarao	Asst. Prof	Bitcoin prediction analysis	India	2023

Conferences

Faculty Name	Designation	Conferences		
		UGC	Scopus	SCI
Mr. P Srinu Vasarao	Asst. Prof	-	1	-
Mr. M Satyanarayana	Asso. Prof.	1	-	-
Mr. Ch. S. Prabhakararao. K	Asst. Prof	-	1	-

FDPs & Workshops Attended by Faculty

Faculty Name	Designation	FDP	Workshop
Mr. B. S. Varaprasad	Asst. Prof	1	-
Mr. Subhabrata Sinha	Asst. Prof	1	-
Mr. M Satyanarayana	Asso. Prof.	1	-
Ms. Archana Gelli	Asst. Prof	1	-

Certification Courses

Faculty Name	Designation	Name of the Certificate Course	Organized by	Date
Mr. P. Srinu Vasarao	Asst. Prof	Full Stack Application Development	SIPH	2023
Mr. M. Satyanarayana	Asso. Prof	Computer Networks and internet protocol	NPTEL- AICTE	2023

Faculty Achievements

Mr. M. Satyanarayana, Assistant professor of CSE Department received Educator excellence award 2023 for his outstanding contribution as an Educator in aws academy held at Goa from EduSkills connect 2023 , November-2023.

Swarnandhra College of Engineering and technology received Asia Book of Records certificate, from Eduskills Connect 2023 in collaboration with AICTE held at Goa November 2023.

Swarnandhra College of Engineering and technology received AWs academy best performing institute award fromEduSkills Connect, Nov 2023 held at Goa.

M.Satyanarayana received Educator excellence award 2023 for his outstanding contribution as an Educator in paloalto Cybersecurity held at Goa from EduSkills connect 2023, November - 2023.

COMPUTER SCIENCE AND ENGINEERING

We rise…We rule

Department Activity

Faculty Development Program (FDP) on Instructional Design Delivery Systems. was conducted by Prof. Dr. CR Nagendra Rao, a highly respected professor and head of the Civil Engineering Department at NITTTR Chennai. Dr. Rao delivered insightful sessions that captivated the audience. His engaging lectures and practical guidance equipped faculty members with innovative teaching strategies and effective delivery systems to enhance the learning experience.

Another distinguished resource person, an associate professor from the Department of Mechanical Engineering at NITTTE Chennai, also shared valuable insights during the FDP. Their contribution further enriched the program, providing a diverse perspective on instructional design and its applications in different engineering disciplines.

The FDP was a resounding success, leaving a lasting impact on the faculty members of the CSE department at SCET. With the knowledge and skills gained during this program, they are well-prepared to elevate the quality of education and foster academic excellence in their institution.

Students' Focus

Veeravalli Sai Nikitha from CSE - C secured the 2nd position in a Running Event held on 7th March 2023 at SCET, Decennial Block, Seminar Hall.

A. Bhagyasri along with her team members A. Devi Nagini, B. Sriveni, and B. Nagadevi achieved the 2nd position in the Technical Club Coding Event on 5th August 2023.Venue: Swarnandhra College of Engineering and Technology.

B. Sriveni, part of the same team, also excelled by securing the 3rd position in the same Coding Event held on 5th August 2023.Venue : Swarnandhra College of Engineering and Technology.

T. Divya Naga Sri from CSE - A achieved the 1st position in a Short Speech Event on 14th August 2023 at Swarnandhra College of Engineering and Technology.

1st Position in a Short Speech

T. Divya Naga Sri also participated in a PPT Event on 15th September 2023, obtaining the 2nd Position. Venue: Swarnandhra College of Engineering and Technology.

Arasavalli Chandra Sekhar - the 1st position in Coding-Competition.

on September 15, 2024, Arasavalli Chandra Sekhar demonstrated his coding prowess at a competitive coding event organized by the CSE department. His exceptional problem-solving skills and creativity earned him the 1st position in the competition, marking a significant milestone in his academic journey. This achievement not only highlights Sekhar's coding abilities but also exemplifies the high standards of education at our institution.

Arasavalli ChandraSekhar also claimed the 2nd Position in the Project Expo on the same day. Venue: CSE Department, SCET. In a PPT Group Event, Arasavalli Chandra Sekhar and teammates G. Pavan and A. Nagendra achieved 1st Position on 15th September 2023. Venue: CSE Department.

T. Divya Naga Sri participated in a Group Discussion on 15th September 2023, secured the 2nd position.

Academic Toppers

B. Tech - VI Sem   Batch: 2021-2022

S. No	Regd. No	Name of the Student	SGPA
1	21A21A0568	Kadali Taru Sai	9.76
2	21A21A0577	K. H. N. Suvarchala Devi	9.76
3	22A25A0514	Nimmakayala Gayathri	9.65

B. Tech - IV Sem   Batch: 2022-2023

S. No	Regd. No	Name of the Student	SGPA
1	22A21A0507	P. V. Sai Sri Krishna	9.72
2	22A21A0550	Jarugu Leela Sri Ram	9.58
3	22A21A0506	Pitani Nikitha	9.44

B. Tech - II Sem Batch: 2023-2024

S. No	Regd. No	Name of the Student	SGPA
1	23A21A05M6	Pippalla Gayatri	9.85
2	23A21A05P8	Srikakolapu Harshitha	9.85
3	23A21A05F5	Kukkala David Ganesh Sai	9.85

Alumini's Voice

I am incredibly thankful to the CSE department faculty for making my college experience a nurturing one. Solid foundation in CS basics I gained during my bachelor's continues to benefit me today. Ability to ask the right questions - skill I developed during my time there - has been invaluable throughout my career. My advice to current students: Get hands-on with projects - they'll boost your problem-solving skills and showcase your abilities to employers
Sowmya Dharanipragada
Software Engineer "VMware" (2009-13 Batch)

Student's Voice

"I am truly grateful to be a part of Swarnandra College of Engineering and Technology, where I received an exceptional education and valuable guidance from the faculty. They gave continuous support both academically and professionally that have helped me to build the confidence and skills.
Kadali Tarun Sai (Regd No: 21A21A0568)

Computing is not about computers anymore. It is about living. - Nicholas Negroponte

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, presented a paper entitled "Effect of co-doping on structural, microstructural, dielectric, impedance and magnetic properties of sol-gel synthesized Bi(1-x) TrxFe(1-y)MnyO3 (Tr = Cr, Ni, Zn, Cu) multiferroic nanoceramics" in Journal of Sol-Gel Science and Technology, SPRINGER, 2023.   Web link is https://link.springer.com/article/10.1007/s10971-023-06255-y
- Mr. G V R S Sai Krishna, Asst.Professor, completed NPTEL course 'An Introduction to Indian Literary Theory' 2023(August-October).
- Mr. G V R S Sai Krishna, Asst.Professor, participated in a one-day workshop on TOEFL TTT in SRKR Engineering College, Bhimavaram, AP held on 11/8/2023.
- Dr.Zehrabi, Professor participated in a one week Faculty Development Programme on English Language Teaching to the fourth Industrial Revolution from 21st to 27th   June 2023.
- Dr. Zehrabi, Professor participated in a one Week Faculty Development Programme on literary studies from 9th to 11th oct 2023.
- Dr. Zehrabi, Professor conducted a workshop for Freshman Engineering students on 5th Sept. 2023 in the college premises.
- Dr. Zehrabi, Professor participated in a one week Faculty Development Programme on Contemporary Literary Themes and Techniques from 19th to 23rd   June 2023.
- Dr. E. M. Victoria, Asst. Professor published a paper on Effect opf Entropy minimization and melting heat on gold-magnesium oxide hybrid nano fluid in squeezing channel with magnetic field with radiation in International journal of Modern Physics B on 25th May 2023.
- Dr. E. M. Victoria, Asst. Professorcompleted NPTEL online certification on" Essentials of Data Science with R Software-1:Probability and statistical inference "with Silver medal from Jan-April 2023 (12 Weeks).
- Dr. E. M. Victoria, Asst. Professor presented a paper on Hydrothermal features in the swirling flow of radiated Graphene-Fe3O4 hybrid nano fluids through a rotating cylinder with exponential space dependent heat generation in UGC Sponsored Two Day National Conference on Advances in Mathematical sciences and its applications (NCAMSA-2023) held at Dept. Of Mathematics Acharya Nagarjuna University on 17-18 March 2023.
- Mrs.P Sirisha, Asst.Professor, completed NPTEL course 'Foundations of R software" (July-October) 2023.

The following students are the toppers in B.Tech. Semester-I (2023-24)

23A21A0596 CGPA : 9.56	23A21A05M5 CGPA : 9.44	23A21A05B1 CGPA : 9.41	23A21A05F5 CGPA : 9.41	23A21A05K2 CGPA: 9.41	23A21A05M6 CGPA : 9.41	23A21A05P8 CGPA : 9.41	23A21A05V1 CGPA : 9.41
23A21A4418 CGPA : 9.41	23A21A4451 CGPA : 9.38	23A21A0534 CGPA : 9.36	23A21A05R2 CGPA : 9.36	23A21A4452 CGPA : 9.31	23A21A05B0 CGPA : 9.28	23A21A05Q2 CGPA : 9.23	23A21A61A6 CGPA : 9.22
23A21A0543 CGPA : 9.18	23A21A05T2 CGPA : 9.18	23A21A04E5 CGPA : 9.15	23A21A0545 CGPA : 9.15	23A21A0505 CGPA : 9.13	23A21A0559 CGPA : 9.05	23A21A0563 CGPA : 9.05	23A21A05A5 CGPA : 9.05
23A21A05C7 CGPA: 9.05	23A21A05R9 CGPA : 9.05	23A21A61A7 CGPA : 9.05	23A21A5433 CGPA : 9.05				

23A21A05B9 CGPA: 9.82

23A21A6425 CGPA: 9.78

Student's Voice

I amvery much satisfied with the every 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.
-Kanchustabham Lakshmi Sai,
Regd. No: 23A21A05B9

"Everyone thinks of changing the World, but No one thinks of changing himself" - Leo Tolstoy

Vision
TRAINING PROGRAMMES DURING THE YEAR 2024

- 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 thier trainig 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	College	Training Course Name	From	To	No. of Days	Organisation
1	B.Tech 4th YEAR (All branches)	2024	226	SCET	Java, Python	5.6.2023	1.7.2023	23	Consensus Academy
2	B.Tech 4th YEAR(All branches)	2024	422	SCET	Aptitude	5.6.2023	1.7.2023	23	IT Curve
3	B.Tech 4th YEAR(Mech)	2024	104	SCET	SOLID WORKS	5.6.2023	9.6.2023	5	Falcon
4	B.Tech 4th YEAR (Mech)	2024	104	SCET	Mechatronics	12.6.2023	16.6.2023	5	Falcon
5	B.Tech 4th YEAR (Mech)	2024	104	SCET	Industrial Automation	19.6.2023	23.6.2023	5	Falcon
6	B.Tech 4th YEAR (Mech)	2024	104	SCET	Mtab	26.6.2023	1.7.2023	6	Falcon
7	B.Tech 4th YEAR (Civil)	2024	44	SCET	Revit BIM	5.6.2023	9.6.2023	5	Falcon
8	B.Tech 4th YEAR (Civil)	2024	44	SCET	Autocad Civil 3D	12.6.2023	17.6.2023	6	Falcon
9	B.Tech 4th YEAR (Civil)	2024	44	SCET	Primavera	19.6.2023	24.6.2023	6	Falcon
10	B.Tech 4th YEAR (AIML, CSE, ECE, Robotics)	2024	60	SCET	Advanced Java	6.7.2023	15.7.2023	8	Consensus Academy
11	B.Tech 4th YEAR (Civil, Mech)	2024	147	SCET	Aptitude	6.7.2023	15.7.2023	8	IT Curve
12	B.Tech 4th YEAR (AIML, CSE, ECE, Robotics)	2024	60	SCET	Advanced Java	17.7.2023	11.8.2023	23	Consensus Academy
13	B.Tech 4th YEAR (Civil, Mech)	2024	147	SCET	Aptitude	17.7.2023	9.8.2023	20	IT Curve
14	B.Tech 4th YEAR (All branches)	2024	347	SIET	Java, Python	16.8.2023	5.9.2023	18	Consensus Academy
15	B.Tech 4th YEAR (All branches)	2024	238	SCET	Java, Python	28.8.2023	8.9.2023	11	Consensus Academy

PLACEMENT CELL
(June 2023 to December 2023)

Selected-1 — AURM — CTC 13 LPA

Selected-11 — Constient — CTC 8 TO 12 LPA

Selected-89 — VTS Enterprises Company Profile - Overview — CTC 6 TO 12 LPA

Selected-119 — tefoLOGIC — CTC 8.5 LPA

Selected-3 — VIBS — CTC 8.5 LPA

Selected-6 — accenture — CTC 4 LPA

Selected-30 — EINFRATECH SYSTEMS — CTC 3.8 LPA

Selected-2 — VEM — CTC 3.5 LPA

Selected-8 — neyes TECHNOLOGIES — CTC 8 LPA

Selected-8 — ORGWARE — CTC 8 LPA

Selected-1 — Schneider Electric — CTC 5.5 LPA

Selected-4 — VIT — CTC 4 LPA

Selected-3 — tivona CLOUD DEVELOPMENT AUTOMATION — CTC 4 LPA

By Education, I mean an all-round drawing of the best in child and man in body, mind and spirit. - Mahatma Gandhi

Empowering Skills... Enriching Future

Vision:

To Develop Engineering Professionals Competent to face the global challenges in a progressive environment conducive to acquire technical knowledge and skills 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.

STATE LEVEL TECH FEST

Students of final DECE have exhibited their project at the state level Tech Fest 2023 in Vijayawada and they

demonstrated the working of the Robot to the then commissioner of Technical Education **Mrs. C. Naga Rani., IAS.** at 'A' convention, Brindavan colony, Vijayawada.

Industrial Training 2nd Spell Batch

Industrial Training

Students of III DCME & DEEE (2021-2023) Batch

89 students completed their 6-months Industrial training in May 2023. As per the **SBTET norms.** All students in their industrial training Gain knowledge and skills through hands on practice.
They were paid Twelve thousand rupees per month as Stipend in several companies like

Hyundai Steel,Umedh Pharma, IFB, Aero Space, Avishkaran, Axiom, Radiant etc.

In 6 months period faculty members visited all the industries twice for assessments.

S.No	Batch	Company	Location	No.of Students
1	DME	Hyundai Steel	Hyderabad	32
2		Umedh Pharma		
3		IFB	Hyderabad	
4	DECE	Aero Space		
5		Avishkaran	Hyderabad	
6		Axiom	Hyderabad	
7		Radiant	Hyderabad	57
	TOTAL			89

An investment in knowledge pays the best interest - Benjamin Franklin

SWARNA MAITHRI
DONATION CAMP

Empowering Skills... Enriching Future

As a part of social Service our Polytechnic final year Students donated Groceries like rice Packets, oil packets, Grams, fruits etc., to the inmates of *Rahul Old Age Home, Blind School and Orphanages in and*

As a part of *National Service* our Final year students Planted saplings in the Government High school, Mogaltur on 9-8-23 National Plantation Day. Mr. Mahesh accompanied the students to the school.

A competition was held on the occasion of *Sri Subrahmanya Bharathi's Birthday* on 11-12-2023. Students exhibited in the competition several states languages, food and cultural diversity. Total 7 teams represented various states of India such as A.P, U.P, J&K, Kerala, Maharastra, Goa and Punjab states.

International Yoga Day was organized on 21-6-23 in Decennial seminar hall for all 3rd years students of Swarnandhra Polytechnic College Mr. B. Laxman Rao, Maths lecturer and pranic healer has explained the importance of Yoga in day to day life. He demonstrated and guided the students while practicing various yoga mudras.

SAMSKARA BHARATHI

On 15th August 2023 Swarnandhra Polytechnic college in collaboration with Samskara Bharathi conducted a classical singing competition to all school students 97students from 42 different schools including Narsapur Blind school have participated and won several prizes. One girl played a song on the instrument 'Veena'. A group of students from Mogaltur high school gave a dance performance for a patriotic song.

De-worming tablets were distributed to all I, II and III year students polytechnic on 10-8-2023 on the occasion of De-worming Day.

A smooth sea never made a skilled sailor - Fraklin D. Roosevelt

IEEE SWARNANDHRA STUDENT BRANCH

Advancing Technology for future generation.....

Advancing Technology for Humanity

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

- WIEAFG(SBA64622) have been conducted WIE DAY 2023 celebration along with PES, IAS JTChapte (SBC64622A) in virtual mode on 7th Aug 2023. MrsSharavaniMathur, WIE Vice Chair, Madhya Pradesh Section, R-10 is invited as speaker for this celebration cum webinar.
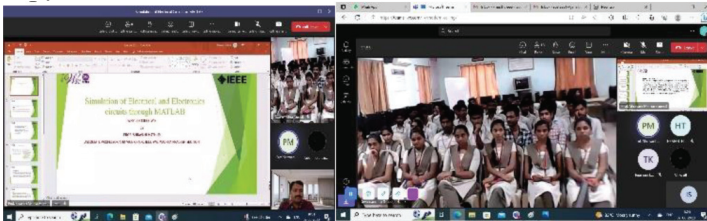
- Power & Energy Society and Industry Applications Joint Chapter(SBC64622A) has been selected for High Performance StudentBranch Chapter Program 2023 (HPSBCP2023) and awarded with$250 for its various activities.
- Faraday's Day was conducted on the occasion Faraday's Birthday by Power & Energy Society and Industry Applications Joint Chapter (SBC64622A) on 22nd Sep 2023.

- A Technical Quiz has been conducted by Power & Energy Society and Industry Applications Joint Chapter (SBC64622A) on 4th oct. 2023.

- The IEEE Swarnandhra Student Branch (SBC64622A) and Power & Energy Society Young Professionals Jointly organized an online webinar on "Small Wind Turbine in Microgrid". As a resource person, Dr. Sangamesh Goudappanavar, Assistant Professor and IEEE at Basaveswara Engineering College in Bagalkote on 26th 2023.

- Comsoc Society Chapter (SBC64622C) has been organized Engineers Day on 15th Sep 2023.

- Computer Society Chapter (SBC64622B) has been organized Engineer's Day on 15th Sep2023.
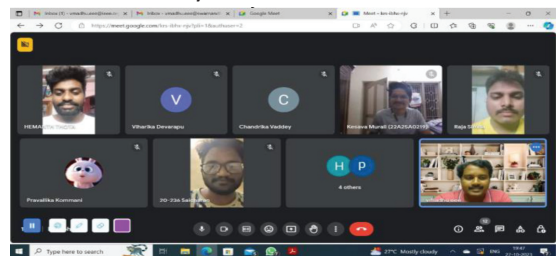

- Power & Energy Society and Industry Applications Joint Chapter (SBC64622A) has been conducted an Industrial Visit to Mini Hydel Power Plant on the occasion of IEEE Day 2023.

- Swarnandhra College of Engineering & Technology Student Branch (STB64622) organized an event IEEE Xtreme 17.o on 28th Oct 2023.

- Awareness Program on IEEE Xtreme 17.0 has been conducted virtually to team members.

"The way to succeed is to double your failure rate"-Thomas J Watson

EXTRA-CURRICULAR AND SOCIAL SERVICES ACTIVITIES