

St. Martin's Engineering College

UGC Autonomous NBA &NAAC A+ Accredited Dhulapally, Secunderabad-500 100



Department of Electrical and Electronics

Engineering



2022 NEWSLETTER Vol.1 ISSUE-02

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About college

St. Martin's Engineering College (SMEC) is established in the year 2002 by St. Martin's Children's Education Society. SMEC offers UG and PG courses such as B.Tech in CSE, Artificial Intelligence and Data Science, CSE- AI & ML, Computer Science and Design, Artificial Intelligence and Machine Learning, IT, ECE, EEE, MECHANICAL, CIVIL of 1080 (UG) students per year.

SMEC is awarded with prestigious grade A+ from NAAC, UGC Paramarsh, NBA accredited, ISO certified, DSIR Recognition, Remote centre of IIT Bombay, Member of CII and MSME certification. It is Certified as AAA+ by Careers 360; Ranked 2nd by Wikipedia Telangana, ranked 3rd by Competition Success Review; ATAL ranked, Ranked as Best Engineering Colleges of India by Career Connect. The best part to announce that 93 books, 6228+ research papers and 187+ patents are published by staff and students. Institution has signed more than 88+ MoUs with worldwide major companies' and institutions. The college is the recipient of glorious Governor Award thrice; The Engineering Educators' Award 2019; NIRDPR Award from Govt. of India; IDF Best Partner Award; Dewang Mehta Award; TCS ION Award; CSI Award from Students Chapter; Best Innovation by Federation of Gujarat Industries and Street Cause-Most Dedicated Division. It is being declared as Best Sports College by Stumagz, Telangana, National Leadership Excellence Award 2019 by ICCI. The crowning glory in academic excellence was achieved by bagging gold medals from university every year. Adding, 138 innovative products are developed by students and faculty. SMEC has received Rs.29 Lakhs from National Institute of Electronics Information Techchonology, Chennai(Govt. of INDIA). SMEC has given approval for running the Honors and Minors degree program by the affiliating university, JNTUH. SMEC has got the approval for research centre in CSE department by the affiliating university, JNTUH.

The remarkable achievement by the faculty members of the college is that they have published 148+ books, 8800+ research papers, 161+ patents, 28+ copyrights and 40, 000+ international certification courses. SMEC has a strong vision of offering world class training to the promising Engineers and Management professionals. SMEC is situated in an eco-friendly environment, the college has the best infrastructure. This is the only college in Telangana which got approved for the NCC boys and girls wing.





About Department

The Department of Electrical and Electronics Engineering (EEE) started in the year 2002 with an intake of 60. The Department is endeavouring to produce highly trained and capable engineers, who can accept the challenges of the real world. The Department focuses on uncompromising academic standards in imparting both theoretical and practical instructions with a view to prepare professional engineers. The B. Tech (Electrical and Electronics Engineering) Program has been accredited by the National Board of Accreditation (NBA) since 2008.

The faculty strives to foster and encourage a teaching methodology that is both practical and theoretical in approach tuning to the requirements of the latest developments in research and industry in the field of Electrical and Electronics Engineering. The Department has its own Technical Association, BETA to enhance the professional competence of students. The association organizes activities like lectures by distinguished industrialists, academicians, and practitioners of the profession, competitions for the students throughout the year. The association also conducts Seminars, Guest Lectures, and Workshops. Through this, the students will learn how to participate in these activities and get awareness of technical presentation and participation in group discussions.

Industrial visits are regularly organized to enhance the practical knowledge of the students and keep them abreast with the latest technological applications in various industries so that their employability skills are enhanced. Over the last three years, the department organised 27 Industrial visits and 136+ Internships for the B. Tech students.







Department Vision & Mission:

Vision

Develop Electrical and Electronics Engineering department as a centre of excellence by imparting quality education to the students, to enable them globally competitive.



Mission



Create an environment where students excel in skill and knowledge development, them as successful convert entrepreneurs with managerial ability, to train them to have all round personality development to work efficiently in any team, and to provide a plat form for interaction between academic scholars and industry for best research achievements.



Dear all,

Greetings from St. Martin's Engineering College.

It gives me an immense pleasure to share with you the highlights of Electrical and Electronics Engineering (EEE) Department. The Department of EEE has done a fabulous job of creating this informative and valuable newsletter EN'LIGHT' Edition 2. This edition of the Newsletter reports the significant activities carried out by faculty, students and Alumni in the areas of teaching and Learning, Research and Development and Industry Interaction, The department has organised and Cultural activities. Sports around 2 technical events like Industrial Visit and Alumni Talk to enhance the knowledge of the students. The faculty and the students have contributed their research work in various areas of Electrical and Electronics resulting 5 publications in SCI and Scopus Indexed Journals, 5 books, 3 patents and 5 NPTEL courses in the last 4 months. I hope this effort will definitely enrich our environment with academic diligence.

I wish all the best for the academic, research and developmental activities in the department to achieve greater heights. I appreciate the efforts put in by editorial board of Electrical and Electronics Engineering to bring out the second edition of newsletter EN'LIGHT'. My best wishes to the department for the future endeavours.

HOD Message



Warm Greetings!!

I am very much pleased to initiate our Department's official newsletter EN'LIGHT' Edition 2. The newsletter invites a wider readership in the institution. The name and fame of the department and the institution depends on the caliber and achievements of the students and faculty members. The essential purpose of a Department Newsletter EN'LIGHT' is to inform, engage, inspire and entertain a diverse readership-including Alumni, parents, students, faculty of the department and college. We continued to excel in teaching, research, cultural and service activities. I wish to record my hearty congratulations to those who have brought laurels to the Department, appreciate all of you for working together as a team. Let this newsletter be a forum to exhibit the potential of students and faculty members with their literary skills and innovative ideas.

Faculty Message:

I am very happy to know that our EEE department is bringing out its second newsletter which highlights the academic activities, achievements and progress of faculties and students. I have immense pleasure in this newsletter and wish the team a grand success.



Mr. N. Daniel Manoj Associate Professor Department of EEE

Alumni Message:



Hello Everyone,

I am Ms. Sameeksha, Product Analyst in INFOSYS. I pursued my B.Tech. in of Electrical the Department and Electronics Engineering, St. Martin's Engineering College from 2015-2019.I am very happy to be a part of this second edition newsletter EN'LIGHT'. of Electrical a student Electronics Engineering Department, I have participated in many technical events like TAM, Jhankar etc., and I have gained a lot of technical and administrational skills. As an alumni, I am proud to see the department success in all the areas. I am a BOS member of the department of EEE. It's a great privilege to share my experience with SMEC in Alumni talk as an alumni, I am always ready to contribute to my department in all aspects. I wish more progress to the department in future times.

FACULTY CORNER

FACULTY ACHEIVEMENTS:

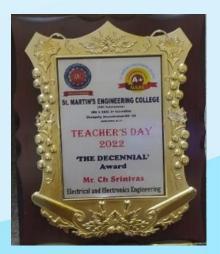
Dr. N. Ramchandra, Assosciate Professor and Head of Department of EEE in St.Martin's Engineering College. Sir has received a "THE QUINQUENNIAL" Award and also special awards.





Mr. CH. Srinivas, working as Assistant Professor in the department of EEE in St.Martin's Engineering College. He Received a "THE DECENNIAL" Award on Teacher's Day 2022, who gave more than 10 years of service to the college.





Mr. K.V. Govardhan Rao, working as Assistant Professor in the department of EEE in St.Martin's Engineering College. He Received a "THE INIMITABLE PRESENTER TEACHER" Award on Teacher's Day 2022, whose paper presentation in journals won Best Paper and he also Received a "THE QUINQUENNIAL" Award on Teacher's Day 2022, who gave more than 5 years of service to the college.







Mrs.T.V.Sai Kalyani, working as Assistant Professor in the department of EEE in St.Martin's Engineering College.She Received a "THE QUINQUENNIAL"

Award on Teacher's Day 2022, who gave more than 5 years of service to the college.

Ms. P. Priyanka, working as Assistant Professor in the department of EEE in St.Martin's Engineering College. She Received a "THE GO GETTER TEACHER" Award on Teacher's Day 2022, who got pass percentage above 90%.









Ms. CH. Nirosha, working as Assistant Professor in the department of EEE in St.Martin's Engineering College. She Received a "THE HUMBLEBRAG" Award on Teacher's Day 2022 ,who continuously shares social media updates.

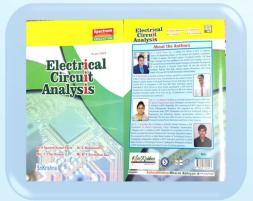


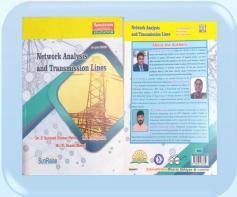


TEXTBOOKS:

The following are the list of Textbooks with ISBN numbers Published by the faculty:

S. No.	Name of Authors	Title of Book and Book Chapters	Publication Detail (Publisher, Edition, ISBN)	Month & Year
1.	Dr. P. Santosh Kumar Patra, Dr. N. Ramchandra, Mrs. T.V. Sai Kalyani, Mr. K.V. Govardhan Rao	Electrical Circuit Analysis	Sri Krishna Techno Publishers, 978-81- 953919-4-3	Nov'2021
2.	Dr. P. Santosh Kumar Patra, P. Priyanka, N. Daniel Manoj	Network Analysis and Transmission Lines	M/s SunRaise International Publishers, 978-81- 952678-5-9	Nov'2021
3.	Dr. P. Santosh Kumar Patra, Ch. Nirosha& Dr N. Ramchandra	Electromagnetic Fields	Spectrum, ISBN: 978-93- 92311-01	Jan'2022
4.	Mr. V. Bharath Kumar Mr. CH. Srinivas	Electrical Machines- I	M/s Seven Hills Interntaional Publishers, ISBN-978-81-953918-4-4	Jan'2022
5.	Dr. P. Santosh Kumar Patra, Dr N. Ramchandra, Mr. CH. Srinivas, Mrs. S. Trilochana	Basic Electrical Engineering	Spectrum, ISBN: 978-93- 83470-31-0	Jun'2022









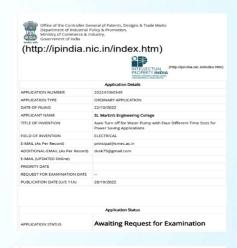


PATENTS:

Dr. N. Ramchandra, Mr. Kambhampati Venkata Govardhan Rao, Dr. P. Santosh Kumar Patra, Ms. B. Sowkya, Mr. B. Vikas, Mr. B. Santosh Reddy, Mr. G. Jeevanmukesh, Ms. V Vaeshnavi Reddy, Ms. N Hema Mythreyi, Ms. K Usha, Mr. K Shashank Kumar filed a patent titled "Auto Turn off for Water Pump with Four Different Time Slots for Power Saving Applications".

Ms. Chelumala Nirosha, Ms. Parankusham Priyanka, Mr. Bandi Vishnu Vardhan Reddy, Ms. Syed Mahek, Ms. Narayanda, Mr. M. Chakradhars Srilakshmi, Mr. Thatipally Rahul, Mr. S. Manideep, Mr. B. Venkateshwarlu, Mr. L. Akshay Reddy, Mr. J. Naveen Kumar filed a patent titled "Heart Attack Detection by Heartbeat Sensing using Internet of Things: IOT".

Mr. T. Naveen Kumar, Mr. Vishnuvardhan Vadla, Dr. B. Mangu, Mr. A. Pramod Mr. G. Ravi Teja, Mr. G. Sumanth, Mr. J. Vikas Reddy, Mr. K. Bhanu Prasad, Mr. K. Chakradhar, Mr. P.V. Lalith Datta, Mr. S. Sai Vardhan filed a patent titled "IoT Based Automatic Vehicle Accident Detection and Rescue System".







PUBLICATIONS:

S.NO	Name of Author	Title of the Research Article	journal
1.	Mr. K.V. Govardhan Rao	Design of a bidirectional DC-DC Converter for a Hybrid Electric Drive System with Dual Battery Storing Energy	Frontiers in Energy research - ESCI
		Neural Network based Direct torque controller of switched reluctant motor for EV Applications	International Transactions on Electrical Energy System- ESCI
		A literature Review on reduction of Harmonics using APF	AIP Conference Proceedings- Scopus
		Revealing the effect of excitation cross – coupling on the performance of LFC in Multi area Hybrid System	IEEE Conference Proceedings- Scopus
2.	Mrs. S. Sunanda Seeli	Design of Grid connected Battery Storage Wave Energy and PV Hybrid Renewable Power Generation	International Conference on Computational Intelligence in Machine Learning Springer Springer

CERTIFICATION COURSES

NPTEL COURSES:

National Programme on Technology Enhanced Learning (NPTEL) is a project of MHRD initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore, to provide quality education to anyone interested in learning from the IITs.

A following faculty have successfully completed few courses such as

- Mr. CH. SRINIVAS (Introduction to IoT, Cloud computing)
- Mr.DANIEL MANOJ NETHALA (Cloud computing)
- **Ms.CH.NIROSHA** (Introduction to IoT)
- Ms. P. PRIYANKA. (Introduction to IoT)



CERTIFICATION COURSES FROM VARIOUS AGENCIES:

To enhance the technical knowledge, the faculty has completed 16 certification courses from different agencies.

Sl. No.	Name of the Faculty	course	Certificate agency
01.	Dr. N. RAMCHANDRA	Virtualization 2.0	Academy Europe
02.	Dr. M. VAIGUNDA MOORTHI	Biometrics Technology	Academy Europe
03.	Mr. CH. SRINIVAS	Android Expert	Academy Europe
04.	Mr. N DANIEL MANOJ	Machine learning with python	Academy Europe
05.	Mrs. T. V. SAI KALYANI	Software Development life cycle	Academy Europe
06.	Mr. K.V. GOVARDHAN RAO	Simple object Access protocol	Academy Europe
07.	Mr. V. VISHNU VARDHAN	Programming methodologies	Academy Europe
08.	Ms. CH. NIROSHA	Parallel Algorithm	Academy Europe
09.	Ms. P. PRIYANKA	Functional Programming of Computer	Academy Europe
10.	Mr. T. NAVEEN KUMAR	Python Deep learning	Academy Europe
11.	Mr. G. BALACHANDRAIAH	Data Warehousing Computer Science	Academy Europe
12.	Mr. VINOTH BRESNAV	Cryptography	Academy Europe
13.	Mrs. CH. SHILPA	Computer level organization	Academy Europe
14.	Mrs. S. SUNANDA	Computer Graphics	Academy Europe
15.	Mr. P. VENKATESH	Agile Methodology	Academy Europe
16.	Mrs. V. KIRANMAYEE	Compiler Design	Academy Europe

STUDENTS CORNER

NCC:

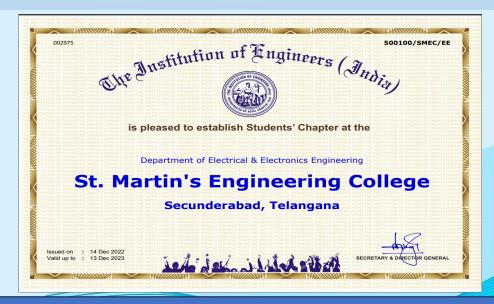
SMEC has NATIONAL CADET CORPS (NCC) girls and boys wing to foster the spirit of team work and management, which leads to the development of student personality. Our department students Ms. K. Archana, Ms. Shravya & Ms. Sagorika are in the team of NCC girl wing. The students have participated in different parades and trained in foot drill command, weapon training, field craft, civil defense, map reading etc.





IEI STUDENT CHAPTER:

The Institution of Engineers (India) [IEI] is the largest multi-disciplinary professional body of engineers, established in 1920 with its Headquarters located in Kolkata and incorporated under Royal Charter on 9th September 1935 by the then His Majesty of King George V. The Institution has been serving the engineering fraternity for over a Century with its national and international presence through 125 Centres spread all over India, 6 Overseas Chapters, 6 Fora and an Organ namely Engineering Staff College of India (ESCI), Hyderabad. The department has registered with IEI student chapter on 17-Nov-2022 with 100 students from 2nd, 3rd and 4th years enrolled as a student members and all the faculty as the members. Under IEI student chapter the department has organized events like Guest Lectures, Workshops and many more. The department events are also published in the IEI student chapter magazine.



Placements

SMEC has an independent Training & Placement Wing, committed to provide all assistance to its students. It is headed by an experienced and qualified Training & Placement Officer and ably assisted by Training & Placement Coordinators. The Wing ensures that maximum number of students secured placements in reputed National & Multinational Companies.



LOKESH AXIOM IO



RUCHITHA VIRTUSA



DIVYA VIRTUSA



VIRTUSA& KEKA



VIRTUSA &
KEKA



PAVAN
VIRTUSA &

KEKA



NAGA RAJU VIRTUSA



MANIDEEP



MAHESH COGNIZANT



SARASWATHI COGNIZANT



VARSHA

COGNIZANT



KOWSHIK



CHARAN TEJ
COGNIZANT



AKSHAY COGNIZANT



COGNIZANT



SRI RAM
COGNIZANT



AKSHITHA

SUTHERLAND



SANDEEP SUTERLAND, RINEX& SMARTIMS



RINEX

SWAPNA SAI PRADEEP



RINEX&SMARTIMS



KARTHIK



RINEX



SURYA KIRAN

SMARTIMS



VIGNESH

MOVATE CSS CROP



NIKHIL
PROLIFICS &
QSPIDER

3-2 Toppers

S.no	Name	SGPA	Student
1.	Mr. M. Nikhil	8.91	
2.	Ms.P.Sri Varsha	8.36	
3.	Mr. M. Mahesh	8.32	
4.	Mr. K. Srinivas	8.32	

2-2 Toppers

S.no	Name	SGPA	Student
1.	Ms.K.Yashashwini	9.67	
2.	Mr. K. Akshay	9.33	
3.	Mr.K.S. Santhosh Kumar	9.33	
4.	Mr. B. Surender	8.81	

ACTIVITIES CORNER

INDUSTRIAL VISIT TO JEEDIMETLA SUB STATION

The Department of Electrical and Electronics Engineering has organized an industrial visit on 31stOctober, 2022 to **220 KV Sub- Station, Jeedimetla** for the III-year B.Tech students. The visit was organized with prior permission and guidance of our beloved Principal, Dr.P.Santosh Kumar Patra Sir and HOD of EEE, Dr.N.Ramchandra Sir. Mr.N.Daniel Manoj is the coordinator and Mr. Balachandraiah and Mr. Vinoth Bresnav are the Co-organizers of this industrial visit.

A brief explanation about ACSR conductors, isolator, CVT, current transformer, insulator, SF6 circuit breaker. The sub-station is well protected from lightning and switching surges. The industrial visit to substation helped the students to acquire the good knowledge in practical basis.



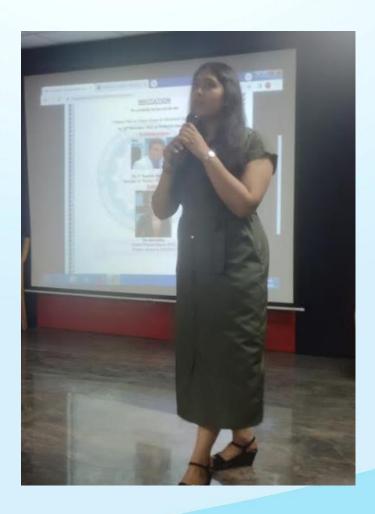
The Department of Electrical Electronics Engineering "Alumni Talk organized an on **Electrical Future** Scope for Engineers"on 26/11/2022.This organized with program was objective to motivate and inspire the students through the talk about success journey of Alumni and also providing information regarding the future scope in Electrical Engineering. The program started with a welcome address by Mrs.T.V.Saikalyani followed address by the of Dr.N.Ramchandra, Head of the Department. Later the speaker Ms. Sameeksha, who is working Product Analyst in **INFOSYS** addressed all the participants.

Ms.Sameeksha was born and brought up in Hyderabad, completed her schooling in Army Public school, Bollarum and Pursued her Graduation in St. Martin's Engineering College. She was enthusiastic not only in academics but also in extracurricular activities such as TAM, Jhankar etc.

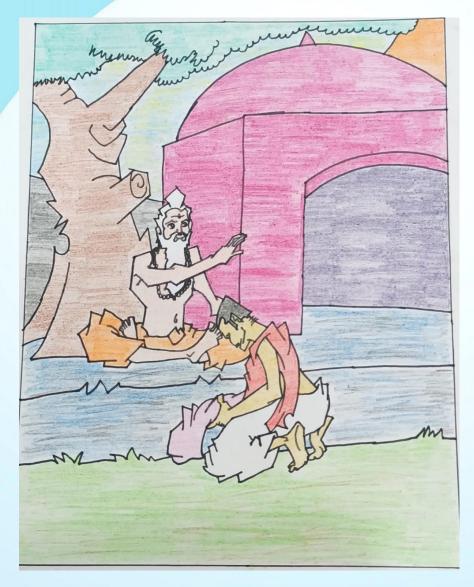


She has discussed about Electrical vehicle oils. The EV fluids market continues to evolve as OEMs and lubricant manufacturers explore ways to meet the challenges of this new technology. The EV market is expanding rapidly. OEMs around the world now offer more than 200 EV models, and the ExxonMobil Outlook for Energy 2019 predicts that approximately 50% of vehicle sales will be EV by 2040.

Lubricant manufacturers must develop new fluids that satisfy the diverse needs of this growing automotive technology. Innovation is critical and must be done with a sense of urgency. In the ever-changing automotive landscape, the vehicle mix continues to evolve. ExxonMobil's 2019 Outlook for Energy projects that electric vehicles (plug-in hybrids, battery electric, and fuel cell vehicles) will grow to over 20% of the vehicle fleets and nearly 30% of new vehicle sales by 2040. As electric vehicle requirements mature, delivering solutions that extend vehicle range and promote safe, efficient performance remains paramount. Innovative approaches to fluids engineering remain critical to meet the electric vehicle fluids application needs of tomorrow.



ARTS:



MS.CH NIROSHA
Assistant professor
Dept of EEE







MR.V.VISHNU VARDHAN

Assistant professor

Dept of EEE



MR.R.HEMANTH
III-I EEE-A

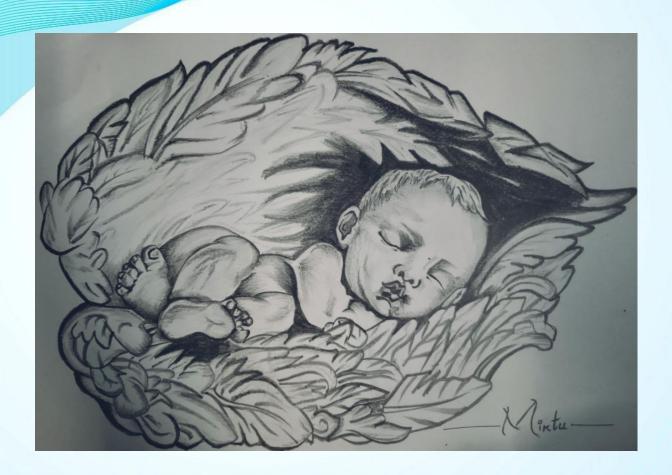






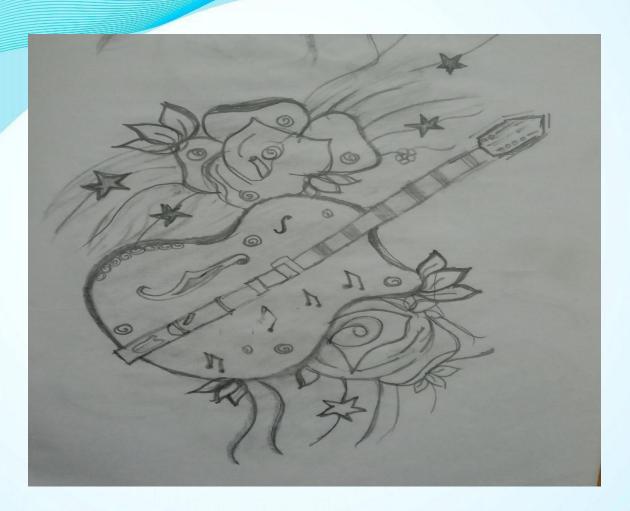


MS.P. SHREYA
II-I EEE-A





MS.K. SNEHITA
II-I EEE-A





MS.K.KAVYA II-I EEE-A





MS.1 K.SHRAVYA IV-I EEE- A

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