



UGC AUTONOMOUS

# St. Martin's Engineering College

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## Department of Electrical and Electronics Engineering



2023

NEWSLETTER

VOL.2 ISSUE - 01

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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 center of IIT Bombay, Member of CII and MSME certification. It is Certified as AAA+ by Careers 360; Ranked 2<sup>nd</sup> by Wikipedia Telangana, ranked 3<sup>rd</sup> by Competition Success Review; Ranked under top 100 by NIRF Innovation, 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 and 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 center 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 6 months 60+ Internships done by the B. Tech Students Successfully.





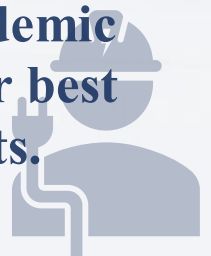
## VISION

**Develop Electrical and Electronics Engineering department as a center 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, to convert them as successful entrepreneurs with managerial ability, to train them to have all round personality development to work efficiently in any team, and to provide a platform for interaction between academic scholars and industry for best research achievements.**



**EDITOR IN CHIEF**

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 3. 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, Sports and Cultural activities. The department has organised around 2 technical events like Industrial Visit and Guest Lecture 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 26 publications in SCI, Scopus and UGC care Journals, 8 books, 5 patents and 4 NPTEL courses in the last 6 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.

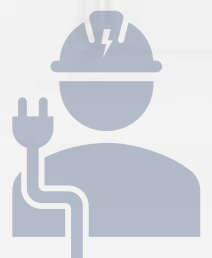




## HOD MESSAGE

Warm Greetings!!

I am very much pleased to initiate our department's official newsletter EN'LIGHT' Edition 3. 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 third newsletter which highlights the academic activities, achievements and progress of faculty and students. I have immense pleasure in this newsletter and wish the team grand success.



## ALUMNI MESSAGE

Hello Everyone,

I am Chandrakanth, Software Engineer Trainee in COGNIZANT. I pursued my B.Tech. in the Department of Electrical and Electronics Engineering, St. Martin's Engineering College from 2018-2022. I am very happy to be a part of this third edition newsletter EN'LIGHT'. As a student of Electrical and Electronics Engineering Department, I have participated in many technical events like TAM, Technovation etc., I have received a first prize in technovation-2022 and I am a class topper as well. As an alumni, I am proud to see the department's success in all the areas. It's a great privilege to share my experience with SMEC. I am always ready to contribute to my department in all aspects. I wish more progress to the department in future.





# FACULTY CORNER

## FACULTY ACHIEVEMENTS



Udemy

Certificate no: UC-81408977-411-486-8825-7104c702023  
Certificate url: udemy/UC-81408977-411-486-8825-7104c702023  
Reference Number: 0004

CERTIFICATE OF COMPLETION

### Outcome Based Education (OBE) & Academic Quality Assurance

Instructors: Dr. Kamran Moosa

**Dr.N.Ramchandra**

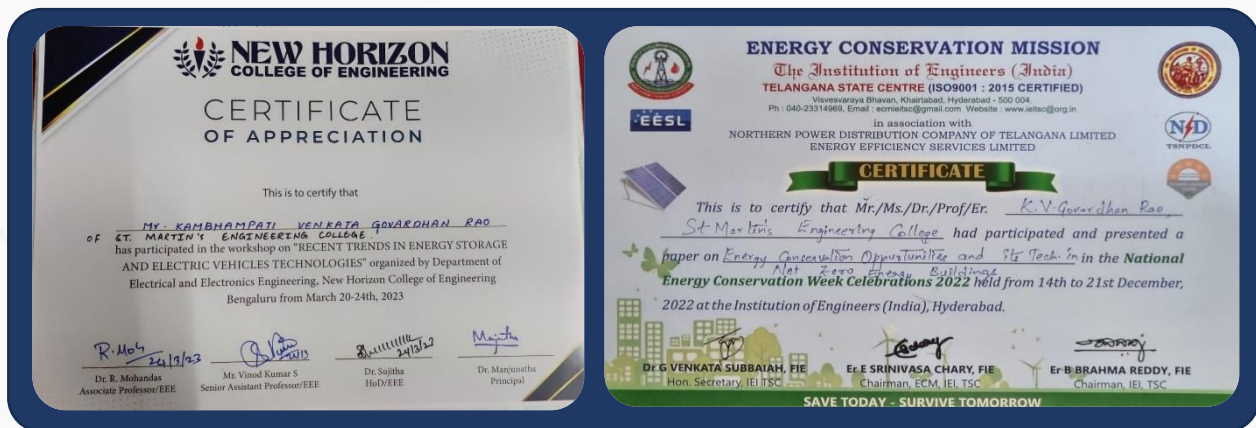
Date: Feb. 7, 2023  
Length: 9 total hours

**Dr. N. Ramchandra, Professor & HOD, EEE**

Dr. N. Ramchandra, Professor and Head of Department, EEE has successfully completed a course on Outcome Based Education & Academic Quality Assurance and received a certificate from Udemy.



Mrs. T. V. Sai Kalyani, Assistant Professor Department of EEE has participated in Energy conservation mission- The institution of engineers (India)



Mr. K.V. Govardhan Rao, Assistant Professor, Department of EEE has participated in various technical events as follows

- one-week FDP at Anurag university
- Workshop in new horizon college of engineering
- IEEE 5<sup>th</sup> Global power, Energy and communication conference
- Energy conservation mission- The institution of engineers (India)



Mr. K. V. Govardhan Rao & Mrs. T. V. Sai Kalyani , Assistant Professors, Department of EEE. Received a Best Paper Presentation Award on Energy Conservation Opportunities and its Techniques in net zero Energy Buildings at the Institution of Engineers (India), Hyderabad.





Mr. V. Vishnuvardhan, Asst. Prof., EEE has Certified in IIC Innovation Ambassador Training in Foundation & Advanced Levels.



## TEXT BOOKS


S.NO	Name of the Authors	Title of book	Publication with ISBN number	Year
1	Dr. M. Vaigundamoorthi Mr. N. Daniel Manoj Mr. G Bala Chandraiah	Electrical Measurements and Instrumentation	Spectrum Education ISBN 978-93-92311-11-6	2022-2023
2	Mr. Ch. Srinivas Mr. T. Naveen Kumar	Control Systems	Spectrum Publications	2022-2023
3	Ms. S. Sunanda Kumari Ms. Cholleti Shilpa	Basic Electrical Engineering	Sun Techno Publications ISBN 978-93-80831-67-1	2022-2023
4	Ms. T. V. Sai Kalyani	Power Semiconductor Devices	Spectrum Publications	2022-2023
5	Mr. K. V. Govardhan Rao Ms. Ch. Nirosha	Power Systems- II	Spectrum Publications	2022-2023
6	Ms. T. V. Sai Kalyani Mr. K. V. Govardhan Rao	Power system Protection	Sunrise International Publishers ISBN 978-93-92311-12-3	2022-2023
7	Ms. P. Priyanka	High voltage engineering	Amaravathi Publishers ISBN 978-93-93199-17-1	2022-2023
8	Mr. K. Vinoth Bresnav	Electrical energy conservation and auditing	Surneni Publications ISBN 978-81-953920-1-8	2022-2023






### Control Systems


Mr. G. Ramesh  
Mr. K. Nishakar  
Mr. Ch. Srinivas  
Mr. T. Naveen




#### About the Authors




Mr. G. Ramesh has been working as an Assistant Professor in St. Martin's Engineering College, Dhalapally, Kompally, Secunderabad in the Department of Electronics and Communication Engineering. He has completed his M.Tech in the specialisation of VLSI & Embedded Systems from Kakatiya Institute of Technology & Science, Warangal, Telangana in 2011. He has 14 years of experience in teaching and is a life member of ISTE. He has published more than 90 research papers in reputed International, National Journals and Conferences. His research interests are VLSI and Wireless Communications.



Mr. K. Nishakar received M. Tech in Embedded Systems & VLSI Design from JNTUH Hyderabad, Telangana, in 2010. Currently pursuing Ph.D degree from Utkal University, Bhubaneswar in the specialisation of Biomedical Image Processing. He has 15 years of teaching experience. Mr. K. Nishakar is working as an Associate Professor in ECE Department at St. Martin's Engineering College since 2012. He has published more than 25 International Journals and conferences and is a life member of IETE, ISTE and IETEC. His research areas are Medical Image Processing and Wireless Communications.




Mr. Ch. Srinivas has been working as Associate professor in the Department of Electrical and Electronics Engineering, St. Martin's Engineering College, Dhalapally, Kompally, Secunderabad, Telangana, India since 2010. He is pursuing his Ph.D. from Omania University, Telangana, India. He is Completed his M.E. in Industrial Drives and Control in 2010 from Omania University and he is Completed his B.Tech in Electrical & Electronics Engineering in 2006 from Dr. Prasad Engineering College, Bhadrachalam, Khairatabad, JNTUH, Hyderabad. He has published Three patents. He has published 15 research papers in reputed international journals. His areas of research are power electronics and hybrid electric vehicles. His total experience in teaching is 14 years.



Mr. T. Naveen has been working as Assistant professor in the Department of Electrical and Electronics Engineering, St. Martin's Engineering College, Dhalapally, Kompally, Secunderabad, Telangana, India since 2 years. He is pursuing his Ph.D. from Omania University, Telangana, India. He is Completed his M.E. in Power Systems in 2013 from Omania University and he is Completed his B.Tech in Electrical & Electronics Engineering in 2007 from Srinivasa Engineering College, Banowada, Nizamabad Affiliated to JNTUH, Hyderabad. He has published One patent. He has published 6 research papers in reputed international journals. His areas of research are Power Systems Load flow Analysis and Distribution Systems. His total experience in teaching is 8 years.



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## Control Systems




Mr. G. Ramesh      Mr. K. Nishakar  
Mr. Ch. Srinivas    Mr. T. Naveen

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### High Voltage Engineering

Dr. P. Santosh Kumar Patra  
Ms. P. Priyanka



#### About the Authors




**Dr. P. Santosh Kumar Patra** is holding B.E, M-Tech & Ph.D in Computer Science and Engineering Degrees. He has received continuously FOUR times "GOVERNOR AWARD from Governor of Telangana, "Rastriya Gaurav Award", "Rastriya Vikas Ratan Award", "Dronacharya Award", Young leader of the year & IBAE International Award, Dubai. In his crowning glory he has achievements like publishing 135 patents and his 12 patents are selected by different companies for commercialization. He has published 75 books and more than 108 international & national research papers, 28 magazine article & 188 newspaper coverage. Adding feather to his believe recently, he is the only one from Telangana to receive the most prestigious Award named "National Happiness Unicorn Award" from Chairman of AICTE.



**Ms. P. Priyanka**, working as Assistant professor from the department of Electrical and Electronics Engineering in St. Martin's Engineering College. She has completed her Master of Technology in power electronics in the year 2019. She completed her Bachelor of technology in Electrical and Electronics Engineering in the year 2014. She has handled various subjects such as Basic Electrical and Electronics Engineering, Utilisation of Electrical Energy, Industrial Electrical Systems, Basics of power plant Engineering, power system operation and control, Network analysis and transmission lines, High Voltage Engineering. She has published her papers in Scopus and UGC journals. She has published one patent. She is a member of IAENG. Her research interests in multi port converters and Renewable energy sources.

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**Electrical Measurements and Instrumentation**

Dr. M. Vaigundamoorthi  
Mr. N. Daniel Manoj  
Mr. G. Bala Chandraiah



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**Dr. M. Vaigundamoorthi**, M.E., Ph. D is currently working as Professor in Electrical and Electronics Engineering and Controller of Examinations in **St. Martin's Engineering College**, Secunderabad. He also worked as Professor and Internship training & placement coordinator in EEE department at Madanapalle Institute of Technology & Science Madanapalle, AP. He has received Ph. D. in Department of Electrical and Electronics Engineering from College of Engineering, Guindy, M.E in Power electronics and Drives specialization from College of Engineering Guindy and B.Tech in the Department of Electrical and Electronics Engineering from Arulmigu Kalasalingam College of Engineering, Madurai, Tamilnadu. He has more than 16 year of teaching experience in various reputed organizations. He has published 10 publications 2 SCI and 3 Scopus in various International journals and conferences. His research interests are Power electronics and drives, Renewable energy sources.



**Mr. N. Daniel Manoj** is currently working as Assistant Professor and Placement Coordinator in Department of Electrical and Electronics Engineering, **St. Martin's Engineering College**, Secunderabad. He has received Master of Technology in Power Electronics from the JNT University, Kaknada, Andhra Pradesh and Bachelor of Technology in Department of Electrical and Electronics Engineering from the JNT University, Kaknada, Andhra Pradesh. He has 9 years of teaching experience. He has written two text books titled "**Network Analysis and Transmission Lines**" and "**Power System 1**", Published 2 patents, 2 IEEE papers and 20 research Publications in various reputed National, International journals and Conferences. His research areas include Power electronics, Power systems and his main research interests are modern trends in Electric Vehicle Technology.



**Mr. G. Bala Chandraiah** has been working as an Assistant Professor in the Department of Electrical and Electronics Engineering, **St. Martin's Engineering College**, Dhulapally, Kompally, Secunderabad, Telangana, India for the last 01 years. He completed his M.Tech. in Power Electronics in 2016 from RAJAMAHENDRA COLLEGE OF ENGINEERING Affiliated to Osmania JNTU HYDERABAD and he completed his B.Tech with Electrical and Electronics Engineering in 2013 from Ashoka Institute of Engineering and Technology, Malkapur Nalgonda, affiliated to JNTU Hyderabad. He published 01 research papers in reputed International Journal of Research. His Total experience in teaching is 06 years.

As per CBCS

## Electrical Measurements and Instrumentation



Dr. M. Vaigundamoorthi  
Mr. N. Daniel Manoj  
Mr. G. Bala Chandraiah





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**Basic Electrical Engineering**


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Mrs. Ch. Shilpa



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**Mrs. Ch. Shilpa** Graduated in Electrical & Electronics Engineering from NALGONDA INSTITUTE OF TECHNOLOGY & SCIENCES, Affiliated to JNTUH, NALGONDA, TELANGANA, and obtained her Master's Degree from Dhruva engineering college, Affiliated to JNTUH specializing in power electronics. Currently, she is working as an Assistant Professor of Electrical and Electronics Engineering Department, St. Martins Engineering college, Dhulapally, Secunderabad, Telangana affiliated to JNTU, Hyderabad. She has 6 years of teaching experiences.

As per CBCS & NEP

## Basic Electrical Engineering




Mrs. S. Sunanda  
Mrs. Ch. Shilpa

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**Power System Protection**

Dr. P. Santosh Kumar Patra  
Mrs. T. V. Sai Kalyani  
Mr. K. V. Govardhan Rao



**About the Authors**

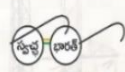
**Dr. P. Santosh Kumar Patra** is holding B.E., M-Tech & Ph.D in Computer Science and Engineering Degrees. He has received continuously FOUR times "GOVERNOR AWARD from Governor of Madhara, "Ratna Gauri Award", "Ratna Vikas Ratan Award", "Dronacharya Award", Young leader of the year & IBAE International Award. Dabit. In his crowning glory he has achievements like publishing 135 patents and his 12 patents are selected by different companies for commercialization. He has published 75 books and more than 108 international & national research papers, 28 magazine article & 188 newspaper coverage. Adding feather to his believe recently, he is thortly one from Telangana to receive the most prestigious Award named "National Happiness Unicorn Award" from Chairman of AICTE.



**Mrs. T. V. Sai Kalyani** is working as currently Assistant Professor in Electrical and Electronics Engineering Department, St. Martin's Engineering College, Dullapally, Secunderabad, Telangana and it is affiliated to JNTU Hyderabad. She is pursuing her Doctor of Philosophy degree at Anna Vivasvathyapetam, Bengaluru. She Completed her Master of Technology at G. Narayanaswami Institute of Technology and Sciences, Autonomous under JNTU Hyderabad and Bachelor of Technology at Geethanjali College of Engineering and Technology, Keesara, Secunderabad, affiliated to JNTU Hyderabad. She has more than 07 years of teaching experience. She Published over 18 Papers in various reputed journals, attended 03 conferences with ISBN number, and published 02 Indian Patents. She guided 05 M. Tech students. She is also a life member in Indian Society for Technical Education and Indian Association for Engineers. Her areas of research include Power Electronics and Drives, Power Systems.



**Mr. K. V. Govardhan Rao** is working as currently Assistant Professor in Electrical and Electronics Engineering Department, St. Martin's Engineering College, Dullapally, Secunderabad, Telangana and it is affiliated to JNTU Hyderabad. He is pursuing his Doctor of Philosophy at Koneru Lakshmaiah Educational Foundation (KL Deemed to be University), Vijayawada Campus. He Completed his Master of Technology at Abdul Kalam Institute of Technological Sciences, Vepalagadda, Kothagudem affiliated to JNTU Hyderabad and Bachelor of Technology at Abdul Kalam Institute of Technological Sciences, Vepalagadda, Kothagudem affiliated to JNTU Hyderabad. He has more than 09 years of teaching experience. He Published over 18 Papers in various reputed journals, attended 05 conferences with ISBN number, and published 01 Indian Patent. He is guided 05 M. Tech students, also author of 2 textbooks. He is also a life member in Indian Society for Technical Education and Indian Association for Engineers. His area of research include Power Electronics, Power Systems.

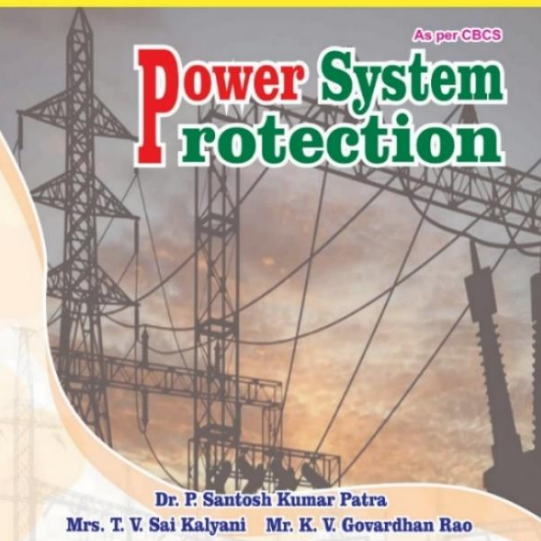


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Power System Protection

Dr. P. Santosh Kumar Patra  
Mrs. T. V. Sai Kalyani Mr. K. V. Govardhan Rao

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**Power System Protection**



Dr. P. Santosh Kumar Patra  
Mrs. T. V. Sai Kalyani Mr. K. V. Govardhan Rao



**Electrical Energy Conservation and Auditing**

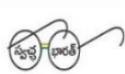
Mr. K. Vinoth Bresnav



**About the Author**



**Mr. K. Vinoth Bresnav** has been working as an Assistant professor in the Department of Electrical and Electronics Engineering, St. Martin's Engineering College, Dullapally, Kompally, Secunderabad, Telangana, India. He is doing Part Time PhD at Annamalai University. He Completed M. E in Power Systems Engineering at Anna University Chennai in 2010. He Completed B.E in Electrical & Electronics Engineering in 2006 from Anna University, Chennai. He has Qualified GATE 2012. His areas of research are Power Electronics Drives and Electrical Machine, He Undergone one-year Industrial experience in Tamil Nadu Electrical Board as a Graduate Apprenticeship. Currently, His total experience in teaching is 11 years 9 months.



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Electrical Energy Conservation and Auditing

Mr. K. Vinoth Bresnav

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**Electrical Energy Conservation and Auditing**



Mr. K. Vinoth Bresnav



**Power Systems-II**

**Dr. P. Santosh Kumar Patra**  
**Mr. K. V. Govardhan Rao**  
**Ms. Ch. Nirosha**

**23****About the Authors**

**Dr. P. Santosh Kumar Patra** is holding B.E, M-Tech & Ph.D in Computer Science and Engineering Degrees. He has received continuously FOUR times "GOVERNOR AWARD from Governor of Telangana", "Rastriya Gaurav Award", "Rastriya Vikas Ratan Award", "Dronacharya Award", Young leader of the year & IBAE International Award, Dubai. In his crowning glory he has achievements like publishing **135 patents** and his 12 patents are selected by different companies for commercialization. He has published **75 books** and more than 108 international & national research papers, 28 magazine article & 188 newspaper coverage. Adding feather to his believe recently, he is theonly one from Telangana to receive the most prestigious Award named "National Happiness Unicorn Award" from Chairman of AICTE.



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**Ms. Ch. Nirosha** has been working as an Assistant professor in the Department of Electrical and Electronics Engineering, **St. Martin's Engineering College**, Dhulapally, Kompally, Secunderabad, Telangana, India since 2 years. She completed her M.Tech in Power Electronics and Electrical drives in 2019 from G.Narayanamma institute of Technology and Science and she completed her B.E in Electrical & Electronics Engineering in 2013 from Stanley college of Engineering and Technology for women, Abids, Hyderabad Affiliated to Osmania University, Hyderabad . She has published 6 papers in reputed international journals.



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## PATENTS

S.No	Patent Name	Authors
1.	Dual Axis Solar Tracking System with Weather Sensor	Parankusham Priyanka, Vempati Kiranmayee, K. Shyama Satya Naga Teja, E. Akshay Reddy, A. Bhargavi Rani, B. Sunil Kumar, M. Venkata Sai Kumar, M. Srinivas Reddy, D. Nitish Reddy, K. Ruchitha, D. Sneha Sri, G. Greeshma, J. Snehalatha, M. Gokul, R. Dinesh, N. Swapna
2.	A location aided flooding mechanism in community based IOT networks	Dr. N. Ramchandra, N. Daniel Manoj, S. Sunanda, M. Mahesh, M. Vignesh, G. Surya Kiran, M. Nikhil, A. Mani deep, Sk. Salman, Md. Ghani, K. Sai Kumar, K. Aparna, K. Sandeep, N. Nagara, E. Rakesh, V. Saraswathi
3.	Smart host Microcontroller for optimal Battery usage	Dr. P. Santosh Kumar Patra, Mr. K. V. Govardhan Rao, Mrs. T. V. Sai Kalyani, Mr. A. Tejith Reddy, Mr. CH. Kumar Teja, Mr. K. Abhinav, Mr. P. Vinod, Ms. K. Lasya, Mr. K. Mallikarjuna Reddy, Ms. G. Nandini, Ms. A. Simran, Ms. P. Sri Varsha, Ms. R. Tejaswini, Ms. D. Sri Diana, Mr. B. Sriram, Mr. V. Karthik Reddy
4.	Power theft identification system using IOT	Ms. Ch. Nirosha, Mr. P. Venkatesh, Mrs, K. Haritha, E. Charan Tej, T. Yashari, T. Venisata Sai Rakesh, N. Sahil, N. Sandeep, G. Mahesh, B. Pavan Kalyan, Sk. Mubin, M. Sai Pradeep, P. Vignesh, S. Vamshi, V. Kalyan Kumar, Guru Venkat Sai, Nanda Veena Nanda Vardhan
5.	Energy saving system for classroom Based on campus card	Ch Srinivas, V. Vishnu Vardhan, G. Bala Chandraiah, M. Vikas, B Saikumar, D. Vani, D. Nikhitha, K. Shravya, B. Anusha, Md. Imthiyaz Ali, K. Archana, G. Pavan Kumar, A. Durga Prasad, G Shravan Kumar, G. Anand, V. Koushik, Lokesh

## PUBLICATIONS

S.No	Faculty name	Title of the Paper	journal
1	Dr. N. Ramchandra	A Hybrid Signal-Based Fault Diagnosis Method for Lithium-Ion Batteries in Electric Vehicle	Scopus
		Stochastic Game Theory for Power Forecasting in Renewable Energy Systems Simulation	SCI
		Internet Traffic Dynamics in Wireless Sensor Networks	Scopus
2	Mr. Ch. Srinivas	Dynamic Power Management and Control of PV PEM Fuel Cell Based Standalone AC/DC Microgrid Using HES.	Scopus
3	Mr. N. Daniel Manoj	Design and development of Automotive Black Box.	UGC Care
4	Ms. T. V. Sai Kalyani	Neural Network – based Direct Torque Controller of Switched Reluctant Motor for EV Application.	ESCI
		Switched quasi impedance source DC-DC network for Photovoltaic systems	Scopus + ESCI
		Amalgamation of smart grid with Renewable Energy Sources	UGC Care
5	Mr. K. V. Govardhan Rao	IoT – Powered Crop Shield System for Surveillance and Auto Transversum.	Scopus
		Design of a Bidirectional DC/DC converter for a Hybrid Electric Drive System with Dual Battery Storage Energy	ESCI
		A literature review on reduction of Harmonics using APF	Scopus
		Enhancement in load Frequency Control of Multi Area Hydro Thermal System with HVDC Tie- Line Incorporation under WCA based TIDN Controller	IEEE XPLORE
		An independently controlled Two output half bridge resonant LED Driver	SCI
		A Buck-Boost Integrated ZVS Full Bridge LED Converter with low Stress	SCI
		A new BLDC motor Driving Resonant pole inverter optimized for Batteries	Scopus
		Lightning in an industrial Setting Characterized by high Temperatures	Scopus
Combined voltage and Frequency control of multi Area Power System using algorithm optimized cascaded controller	Scopus		



S.No	Faculty name	Title of the Paper	journal
6	Mr. V. Vishnuvardhan	Hybrid Electric Vehicle	UGC Care
7	Ms. Ch. Nirosha	A survey on synchronous generators	UGC Care
8	Ms. P. Priyanka	Forest Fire Detection System	UGC Care
9	Mr. G. Bala Chandraiah	Grid Voltage Synchronization by using the technique of Series Compensation	UGC Care
10	Ms. S. Sunanda Kumari	Design of Grid Connected Battery Storage Wave Energy and PV Hybrid Renewable Power Generation.	Scopus
11	K. Vinoth Bresnav	Comparison of Three- Level and Five Level ZVS Active Clamping PWM	UGC Care
12	Mrs. V. Kiranmayee	IOT – Based Battery Monitoring System for Electric Vehicle	Scopus
13	Mr. P. Venkatesh	High step up voltage gain achieved in DC-DC converters using LPCM control technique	UGC Care
14	Mrs. K. Haritha	Voltage Instability mitigation in the Hybrid System using Facts Device	UGC Care

The faculty of Electrical and Electronics Engineering  
Published a 26 Papers in Various journals such as SCI,  
Scopus and UGC Care.

## CERTIFICATION COURSES

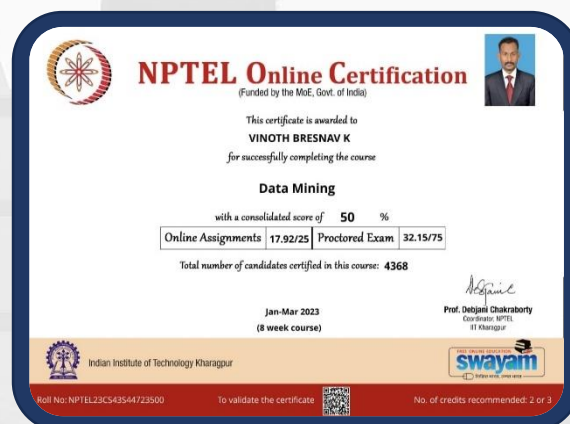
### NPTEL COURSES



Mr. Daniel Manoj Nethala, Asst. Prof, EEE has Successfully completed three NPTEL Courses and received one Elite and two Elite + Silver certificates from IIT Kharagpur.



Mr. K. Vinoth Bresnav, Assistant Professor, EEE, successfully completed the NPTEL Course on Data Mining.





## CERTIFICATION COURSES FROM VARIOUS AGENCIES

To Enhance the Technical knowledge, the faculty has completed 11 certification courses from different agencies.

S.no	Name of the Faculty	Course	Certificate Agency
1	Mrs. T. V. SAI KALYANI	Compiler Design	Academy Europe
2	Mr. K.V. GOVARDHAN RAO	Cryptography	Academy Europe
3	Mr. V. VISHNU VARDHAN	Computer level organization	Academy Europe
4	Ms. CH. NIROSHA	Agile Methodology	Academy Europe
5	Ms. P. PRIYANKA	Software Development life cycle	Academy Europe
6	Mr. G. BALACHANDRAIAH	Simple object Access protocol	Academy Europe
7	Mr. K. VINOTH BRESNAV	Programming methodologies	Academy Europe
8	Mrs. S. SUNANDA	Parallel Algorithm	Academy Europe
9	Mr. P. VENKATESH	Functional Programming of Computer	Academy Europe
10	Mrs. V. KIRANMAYEE	Python Deep learning	Academy Europe
11	Mrs. K. Rupa Haritha	Data Warehousing Computer Science	Academy Europe

# STUDENTS CORNER



## TECHNOVATION 2023

Students of EEE-IV-A participated in Technovation-2023 and received a first Prize

SRI RAM

KARTHIK

SARASWATHI





## SYMPOSIUM



Students of III-EEE-A participated in Technical Rangoli competition



Ravuri Hemanth of III-EEE-A participated in symposium and received a Prize.



## TECHSONANCE



Ravuri Hemanth of III-EEE-A has participated in the event PATHRABHARA held at Techsonance 2023 organized by Osmania University

## AAKRUTHI 2023

Students of III-EEE-A participated in ARDUINO MAKEATHON as a part of Aakruthi 2023 organized by the department of ECE, University college of Engineering, Osmania University, Hyderabad.













**Students of EEE -III -A Participated in ARDUINO MEKATHON and won First Prize from OSMANIA UNIVERSITY.**



OTHER CERTIFICATIONS



**Software Training, Development & Overseas Education Center**

**Certificate of course completion**

This award certifies that  
 Mr./Mrs. Jarpula Suresh  
 Has successfully completed  
Python

Date 15-Jun-2023 Signature 

**Lasya IT Solutions Pvt. Ltd.**  
 Software Training, Development & Overseas Education Center  
 Door No 3-29/2 2nd floor, Mayur Plaza, Behind Cine Planet Kompally, Medchal Dist, Secunderabad, Pin: 500014, Telangana, India.  
 Email: contact@lasyainfotech.com / ov@lasyainfotech.com | Website: www.lasyainfotech.com Contact: 733066881/62/63/64/66



**VERZEO**

Certificate Of Course Completion

**Padalaraju**

has successfully completed Machine Learning with Python course from 01/11/2022 to 31/12/2022.

During this course, we found the student, to be a keen and enthusiastic candidate.

  
 P. Prasad  
 Head of Institute

  
 T. N. Nishu  
 Head of Institute

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**VERZEO** Z E R Z E O

**CERTIFICATE OF INTERSHIP**

This Certificate is Proudly Presented to

**Padalaraju**

For successful completion of Machine Learning with Python in the project "Sentiment Analysis" successfully with the goal from 01/11/2022 to 31/12/2022.

During this internship, the student contributed to the team towards the goal with great assistance.

06-01-2023  
 DATE   
 ACADEMIC HEAD

Certificate ID: 1748890





**CERTIFICATE OF COMPLETION**

Presented to  
**Chandha Bhargav Raj**

For successfully completing a free online course  
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## III -Year TOPPERS



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8.91 CGPA



K. Yashaswini  
21K85A0204  
8.74 CGPA



K. Seshasanthosh Kumar  
21K85A0212  
8.57 CGPA

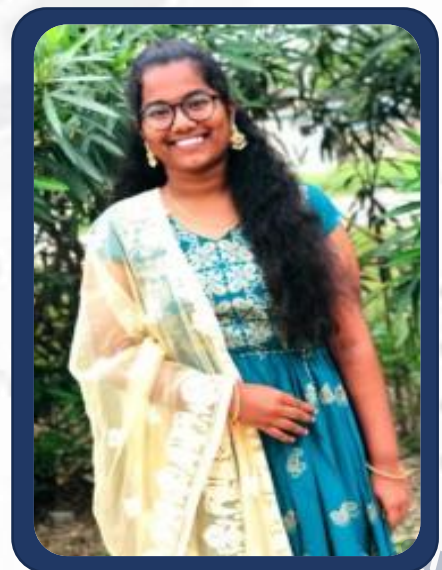
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M. Nikhil  
20K85A0202  
8.71 CGPA



Bhargavi Rani  
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## 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.



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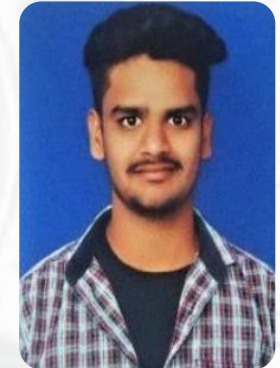
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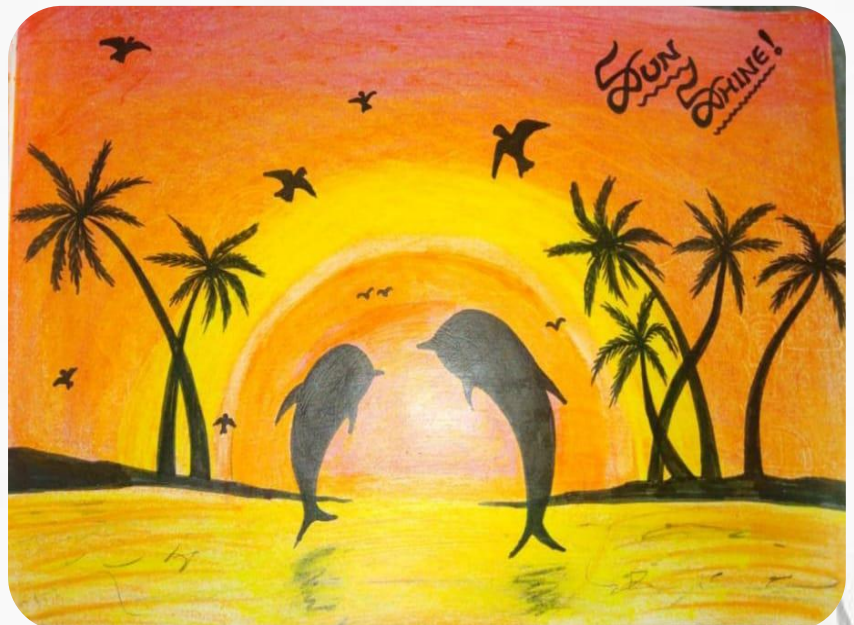
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