



Editorial

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Vision

To produce globally competitive and socially sensitised engineering graduates and to bring out quality research in the frontier areas of Electronics & Communication Engineering.

Mission

To provide quality and contemporary education in the domain of Electronics & Communication Engineering through periodically updated curriculum, best of breed laboratory facilities, collaborative ventures with the industries and effective teaching learning process.

To pursue research and new technologies in Electronics & Communication Engineering and related disciplines in order to serve the needs of the society, industry, government and scientific community.

Program Educational Objectives (PEOs)

After 3 to 5 years of graduation, electronics & Communication Engineering graduates will

PEO1: Excel in their professional career and higher education in Electronics & Communication Engineering and related fields.

PEO2: Exhibit leadership through technological ability and contemporary knowledge.

PEO 3: Adapt to emerging technologies for sustenance in their relevant areas of interest.

About the Department

Accreditation of B. Tech and MTech programmes by NBA, New Delhi to turn out globally recognized graduates.

40% of the faculty with Ph.D. qualification from premier institutions encompassing IITs, NITs, BITS and government universities to institute strong foundation and impart necessary skills

Establishment of TIFAC CORE in Telematics by DST, New Delhi and industries with outlay of 10 Crores, first of its kind in the state of AP, for producing industry ready students in the focused core areas. Conduct of research and guidance in the focused areas of Antennas, Image Processing, RF&MW, VLSI & ES, Telematics.

More than 75% of the students are being absorbed by reputed MNCs'.

The Teaching-Learning process adopts different methods such as experiential learning, participative learning and problem-solving methodologies utilizing ICT facilities, LMS and e-resources. All the academic activities are carried out strictly following the academic and activity calendar. Proctor dairy system is in place for counselling and to monitor academic and personal issues of students. Necessary efforts are being made in identifying the learning levels (slow and fast) of the students through various assessments and additional training is imparted to slow learners.

Department encourages academic discussions between faculties and students using black board and faculties shares academic study material using it.

Use of modern teaching aids like LCD projectors, Wi-Fi enabled laptops are usually employed in classrooms and other student learning environments

Department has introduced EPICS (Engineering Projects for Community Services) in the curriculum along with mini and major projects. In EPICS students will go to the society (villages/ hospitals/ towns etc.) to identify the problem and survey the literature for a feasible solution.

Expert video subject lectures delivered by the various eminent resource persons are available in the digital library and it facilitates the faculty and students to utilize E-Tutorials of NPTEL, MOOCs access E-Journals, Video Conference, etc.

Faculty members use department library, digital library and other Open-Source platforms to enhance their teaching skills. The faculty members are encouraged to participate in short term courses, staff development programs and workshops on advanced topics to keep pace with the advanced level of knowledge and skills.

Program Specific Outcomes (PSOs)

After completion of electronics & Communication engineering Program, the students will be able to have ability to:

PSO 1: Demonstrate proficiency in the use of IOT required in real -life applications

PSO 2: Implement functional blocks of hardware/software designs for signal processing and communication applications.

Patents applied & awarded

Dr. Durga Prakash Associate Professor ECE et.al. “IOT Based Things Speak Environmental Monitoring using Wireless Sensor Network”, India ApplicationNo.202041039548 Publication Date:25/09/2020.

Ph. D registerd

- Mr. K Prem Chand, got Ph. D admission at JNTUK University, Kakinada for the A.Y Sep 2020
- Mr. G. Chakravarthy, got Ph. D admission at SRM University; Chennai for the A.Y Dec2020.

STTP organized in the department

One Week Online Short-Term Training Program STTP-II on “Trends and Challenges in Design andImplementation of Reconfigurable Antennas for Increased Spectrum Access in Cognitive RadioCommunication” Organized by Department of Electronics & Communication Engineering, Velagapudi Ramakrishna Siddhartha Engineering College during 24th -29th August 2020 Sponsoring agency: AICTE

Resource Persons:

- Dr. Samar Shailendra, Scientist, TCS Research & Innovation & Visiting faculty at IITBangalore
- Dr. G. Rama Murthy, Prof. of CSE, Mahindra University, Hyderabad
- Dr. Abhinav Kumar, Associate Professor, Dept. of Electrical Engineering, IIT Hyderabad
- Dr. P. Sreehari Rao, Associate Professor of ECE, NITW, Warangal
- Dr. D. Vakula, Associate Professor of ECE, NITW, Warangal
- Mr Hemant Katakhar, Director. Technical, Akademika
- Ms Kalyani, Application Engineer, Akademika
- Mr Shankar Nair, Director, Sales & Marketing Akademika
- Er. M.Vinoth Manoharan , Co-Founder & CTO
- Wilma Comm unications Groups (Asia | US | Europe).

One Week Online Short-Term Training Program STTP-III on “Trends and Challenges in Design and Implementation of Reconfigurable Antennas for Increased Spectrum Access in Cognitive Radio Communication” Organized by Department of Electronics & Communication Engineering, Velagapudi Ramakrishna Siddhartha Engineering College during 14th -19th September 2020 Sponsoring agency: AICTE

Resource Persons:

- Dr. Samar Shailendra, TCS Research & Innovation & Visiting faculty at IIIT Bangalore.
- Dr. G. Rama Murthy, Prof. of CSE, Mahindra University, Hyderabad.
- Dr. Dhananjay Kumar, Prof. and HoD of IT, Anna University, MIT Campus, Chennai
- Dr. Abhinav Kumar, Associate Professor, Dept. of Electrical Engineering, IIT Hyderabad
- Dr. P. Sreehari Rao, Assoc Prof. of ECE, NITW, Warangal
- Dr. D. Vakula, Assoc Prof. of ECE, NITW, Warangal
- Dr. A. Prakasa Rao, Assoc Prof. of ECE, NITW, Warangal
- Dr. S. Anuradha, Assoc Prof. of ECE, NITW, Warangal
- Dr. V. Srinivasa Rao, Scientist –F, RCI, Hyderabad
- Dr. Sumit Kumar, Research Associate at the Interdisciplinary Centre for Security, Reliability, and Trust of the University of Luxembourg
- Er. M. Vinoth Manoharan, Co-Founder & CTO Wilma Communications Groups (Asia | US | Europe)

One day Webinar on Innovation and Entrepreneur Orientation Session on National Innovation and Start-up Policy (NISIP) Organized by Department of Electronics & Communication Engineering, Velagapudi Ramakrishna Siddhartha Engineering College on 28th December 2020.

Sponsoring agency: SAGTE & Institution Innovation

Council (IIC) Resource Persons:

Dr. Gaurav Vijay Bansod, Head Start-Up and Innovation Cell, PICT, Pune.



Dr. V. Praveen Naidu delivered FDP guest lecture on ‘SmallSatellites’ from 10-08-2020 to 14-08-2020, State Board of Technical Education and Training, Andhra Pradesh.

Dr Khalim Amjad Meerja was awarded “Best Researcher Award” during NESIN 2020 Awards for the contribution and Honorable Achievement in innovation research From Science Father a trade mark of Scifax company, Approved and registered by Ministry of Corporate Affairs Govt of India. He was also awarded 2021 certificate of IEEE Membership as a senior member in good standing through December 2021 denoting a personal and professional commitment to the advancement of technology.



Dr M Padmaja and Dr A Jhansi Rani has won Uttam Acharya Puraskar Award (a National Award) on the occasion of 150th Birth Anniversary Celebrations of Mahatma Gandhi on 02/10/2020.

Alumni relations (Old Students)

- Dr. P. Sreehari Rao, Assoc Prof. of ECE, NITW, Warangal Alumni of ECE department had delivered lecture in three phases of STTP which was conducted during the (STTP-I 20th -25th July 2020, STTP-II 24th -29th August 2020, STTP-III 14th -19th September 2020) A.Y 2020-21.
- Dr. D. Vakula, Assoc Prof. of ECE, NITW, Warangal Alumni of ECE department had delivered lecture in two phases of STTP which was conducted during the (STTP-I 20th -25th July 2020, STTP-II 24th -29th August 2020) A.Y 2020-21.
- Dr. A. Prakasa Rao Assoc Prof. of ECE, NITW, Warangal, Alumni of ECE department had delivered lecture in two phases of STTP which was conducted during the (STTP-I 20th -25th July 2020, STTP-II 24th -29th August 2020) A.Y 2020-21.
- Dr. S. Anuradha, Assoc Prof. of ECE, NITW, Warangal Alumni of ECE department

had delivered lecture in STTP which was conducted during the STTP-III 14th -19th September 2020

- STTP: “Trends and Challenges in Design and Implementation of Reconfigurable Antennas for Increased Spectrum Access in Cognitive Radio Communication

Students Prizes

- Ayyappa Boyina, Ippili Lokesh, Bonda Likhitha, Serena Kukkamalla IV/IV B. TECH won FIRST PRIZE IN INNOVATION DAY AT VRSEC on 15-10-2020 with title "Smart Hairstyling Machine": It is a product that can perform different hairstyles as per the customers' requirements.
- N.S.S. Pranavi, K.S. Sruthi, B.J.N. Sirisha III/IV B. TECH won second prize in innovation day at VRSEC on 15-10-2020 with title Manhole alert system.
- R. Pranay II/IV B. TECH won third prize in innovation day at VRSEC on 15-10-2020 with title CNC Writing Machine (Drawing also).
- Ch. Divya, J.V.S. Ramadevi, M.L.N. Sai Sri, K. Krishna Sai III/IV B. TECH won Certificate of Excellence in Mind Maze Technical E-Quiz at NRI Institute of Technology.

Core values of the institute

V R Siddhartha Engineering college engages itself in a process of self and community reflection that leads the institution to recognize and heighten awareness of the core values the college is practising and to develop an institutional culture that stands accountable to those values

- 1. Commitment**
 - Responding to the changing need of our region and nation
 - Develop a shared decision-making process
- 2. Respect**
 - Include stake holders in the decisions
 - Recognise and support employee contributions
- 3. Excellence**
 - Anticipate techno-social need and respond accordingly
 - Encourage innovation and interdepartmental collaboration
- 4. Accountability**
 - Continuously evaluate and improve the academic and administrative systems
 - Demonstrate responsibility through stakeholder satisfaction
- 5. Diversity**
 - Ensure fair and equal access for all
 - Recognise, appreciate and celebrate diversity
- 6. Cultural competence**
 - Encourage ideas and participate
- 7. Learning environment**
 - Outstanding physical infrastructure, along with a culture of excellence
- 8. Community**
 - Value and respect Collegiality, Partnerships, Safe and Healthy Environment and Service
- 9. Integrity**
 - Committed to ethical and responsible behaviour

Quality policy

VRSEC strives to impart Knowledge, Skills and Attitude through continuous improvement to meet the ever-changing needs of Industry and the Sustainable Development of Society

PROGRAM OUTCOMES (POs)

PO1	Engineering knowledge: An ability to apply knowledge of mathematics, science, fundamentals of engineering to solve electronics and communication engineering problems.
PO2	Problem analysis: An ability to identify, formulate and analyse electronics and communication systems reaching substantiated conclusions using the first principles of mathematics and engineering sciences.
PO3	Design/development of solutions: An ability to design solutions to electronics and communication systems to meet the specified needs.
PO4	Conduct investigations of complex problems: An ability to design and perform experiments of complex electronic circuits and systems, analyse and interpret data to provide valid conclusions.
PO5	Modern tool usage: An ability to learn, select and apply appropriate techniques, resources and modern engineering tools for modelling complex engineering systems.
PO6	The engineer and society: Knowledge of contemporary issues to assess the societal responsibilities relevant to the professional practice.
PO7	Environment and sustainability: An ability to understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
PO8	Ethics: An understanding of professional and ethical responsibilities and norms of engineering practice.
PO9	Individual and team work: An ability to function effectively as an individual, and as a member in diverse teams and in multidisciplinary settings.
PO10	Communication: An ability to communicate effectively with engineering community and with society at large.
PO11	Project management and finance: An ability to demonstrate knowledge and understanding of engineering and management principles and apply these to manage projects.
PO12	Life-long learning: An ability to recognize the need for, and engage in independent and life-long learning in the broadest context of technological change.