Velagapudi Ramakrishna Siddhartha Engineering
Department of Electronics & Communication Engineering
News Letter
Volume 9 Issue 6 May June 2022

Editorial

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Inside the Issue

- *Programs organized in the dept.*
- *Faculty achievements*
- *Faculty participations in FDPs/Workshops/seminars*
- *Student achievements*
- *Placement details*

……and many more

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.

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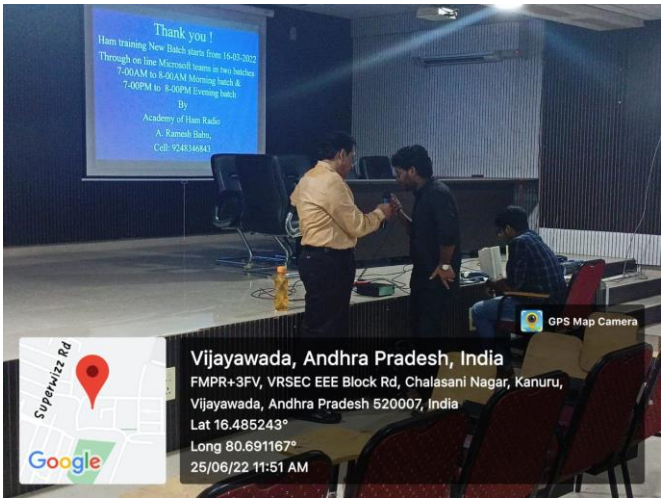
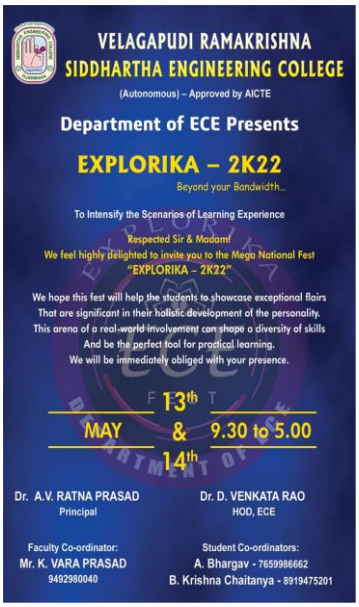
Events organized in the department

Guest Lecture on Ham Radio



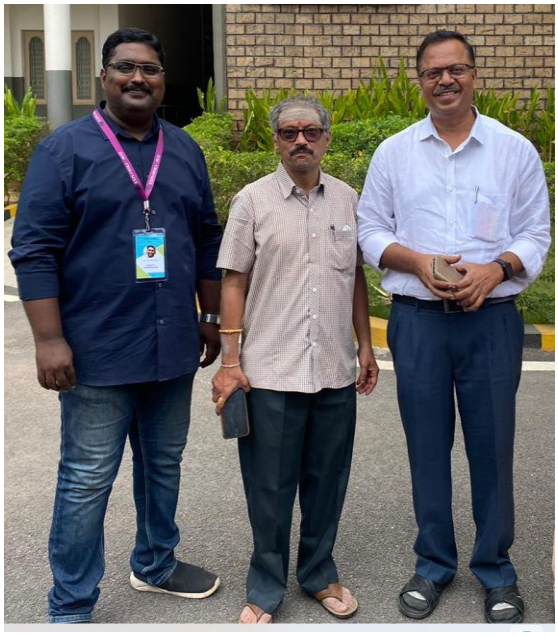
Department of Electronics & Communication Engineering organized a guest lecture on "Ham radio" to create an awareness about ham radio for 2/4 BTech students. Mr. Arza Ramesh Babu, VU2RDM, Chief coordinator, academy of Ham Radio, Vijayawada was invited as a resource person to give the lecture on Ham radio. He explained about working of ham radio, advantages and applications. Mr Ramesh explained the way in which Ham radio can be helpful in times of emergency during disaster situations. He also shared his experience with ham radio communications and created awareness to students about examination conducted by central government. Practical demo on ham radio communication was given with their equipment.



Explorika

2k22

Department of ECE organised a Mega National Fest – Explorika 2K22. This event created a platform for the students to showcase their exceptional flairs. Door Darshan Director General Dr. D Ranganadham was the chief guest for the inaugural of the mega event and retired Air Warrior Prof.K.R. R Seshadri Rao was invited to be the guest of honour. Dr. D Ranganadham shared his experience with DD and created interest among the students about the enhancements in this digital world. Prof.K.R. R Seshadri Rao motivated the students towards being ideal human beings.



Many technical and cultural events like Quiz, Throw A Punch (Jam), Poster Presentation, Circuit Guess, Paper Presentation, Student Project Design Contest, Meme Crack, Song Trivia, Logo Design, Sight on Site, Treasure Hunt, Dance and Singing, Photography, Ramp Walk, Rock Band, Flash Mob, Rangoli were organized in the department. Dr. K. Ramanjaneyulu, Professor, ECE department, PVP Siddhartha Institute of Technology, Dr. Ch. Gangadhar, Associate Professor, ECE department, PVP Siddhartha Institute of Technology were invited to be the judges for technical events. A good count of students from various colleges actively participated in all the events and bagged the prizes.

Farewell 2018-22 Batch

Sayonara…… *2018-22 batch ECE students ……*

Farewell was given to 2022 outgoing students on

27th May 2022

Faculty Contributions

- Dr M Padmaja guided 4 students of 4/4 ECE for internship to STARC (Society for Integrated Circuit Technology and Applied Research), A UNIT OF SITAR, DRDO, Bangalore for a duration of 3 months.
- Received a grant of Rs 2,00,000 for a collaborative project in the technology area of BLE by Efftronics pvt Ltd.

Faculty participation in FDP/Seminar/ Workshops….

- P.Vijaya Kumar attended A Two Day Workshop On "Outcome Based Education & Impact On HEI " VRSEC Under AICTE Margdarshan Scheme from 22nd and 23rd June 2022
- Dr Venkata Sainath Gupta attended a "Research Project Proposal - Thought Process to Submission VRSEC Under AICTE Margdarshan Scheme on 24th June 2022
- Dr K. Shri Ramtej attended a "Research Project Proposal - Thought Process to Submission VRSEC Under AICTE Margdarshan Scheme on 24th June 2022
- Sk Khaleelahmed attended A Two-Day Workshop On "Outcome Based Education & Impact On HEI" VRSEC Under AICTE Margdarshan Scheme from 22nd and 23rd June 2022

Publications and Conferences attended by students …

- Mukesh G, Sivaram J, Krishna Sai N, Tarun, P.Vijaya Kumar Computationally Efficient Hybrid Algorithm for Peak to Average Power Ratio Reduction in Multiuser MIMO OFDM System IEEE Conference,April 21-22,2022,ISBN:978-1-6654-1120-2

- Sk Chandini, A Ravi Raja, A Comprehensive review on Compressive Sensing IEEE conference ICAAIC May 2022

- Sai Hemanth, Shaik Afrid, P Sai Sri, Jasmitha Sri, K. Shri Ramtej Telepresence Device using Raspberry Pi International Conference on Trends in Electronics and Informatics (ICOEI), 24 May 2022

- Y. Neha, N. Samyuktha B. Gayathri, A. Charith, V.Saritha Smart parking system using opencv Library International conference on Artificial Intelligence & Data Analytics, Internet of things, Cyber security(ICAIC-22), 10-21 May 2022

- K.Sushma Sri, G.Kusuma Priya, B.Pramodh Kumar, S.Dimple Sravya, M.Bindu PriyaDiabetic Retinopathy classification using Deep Learning Technique "6th International Conference on Trends in Electronics and Informatics (ICOEI 2022)", 28-30, April 2022

- K Geethasri, J Sai Kousik, M Vaishnavi, B Kranthi Sai, D Lokesh Nayak, Dr M Padmaja Campus Routing Using QR Code, International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication and Computational Intelligence RAEEUCCI -2022 22-24 April 2022

Students Achievement

Under the Guidance of Dr Praveen Naidu Vummadisetty, Associate Professor, Student Team won 2nd prize (project expo) in "National Level Student Techfest-Jubilation 2022" at Narasaraopeta engineering college, AP along with cash prize of Rs.2000/- on 7th May,2022.

Under the Guidance of Dr Praveen Naidu Vummadisetty, Associate Professor, Student Team won 2nd prize in "National Level Student Techfest-CSENCIA 2022" at Velagapudi Ramakrishna Siddhartha Engineering college, AP along with cash prize of Rs.1000/- on 6th May,2022.

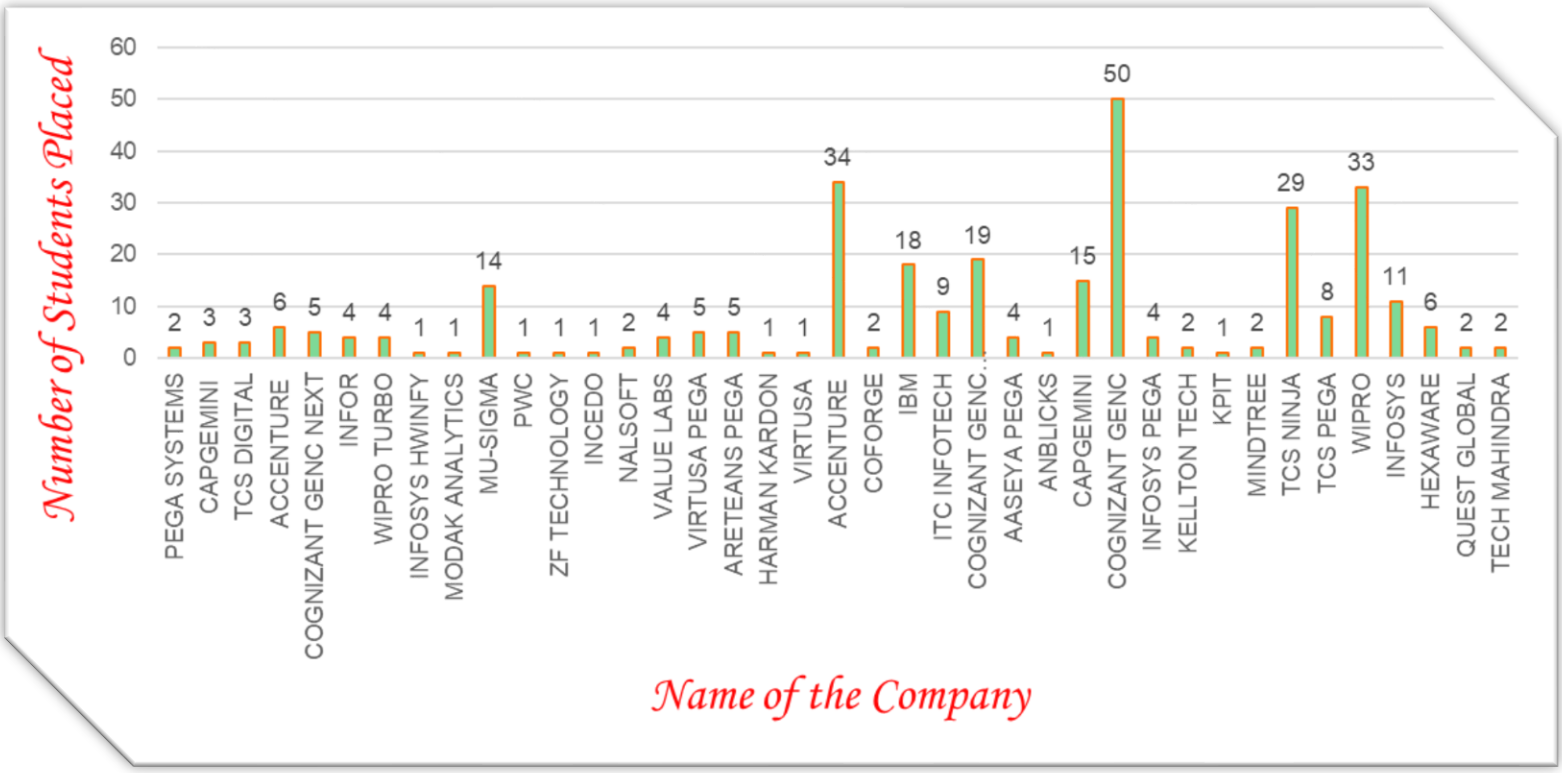
N Naga Sai Prasanna Revathi of III/IV B. Tech received 3rd Prize in Entrepreneurship and Leadership Programme (ELDP) by IIM Vizag and Moonshot Junior under the Guidance of Dr Praveen Naidu Vummadisetty, Associate Professor ECE.

Shaik Sajiha, 208W1AO4B3 of ECE Department scored a

SGPA 9.88 and stood as College Topper in

Third Semester Examinations for the academic year 2021-22

Placement details of 2018-22 batch students



MADDURI VIDYASRI NEEHARIKA

188W1A04K2

MOHAMMED JUNAID IQBAL

188W1A04E9

Happy to announce the selection by

The PEGA SYSTEMS

Being offered ₹16.01 Lakhs per annum.

CONGRATULATIONS!!

Department of ECE

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PSOs'

PSO1	Demonstrate proficiency in the use of IOT required in real life applications.
PSO2	Implement functional blocks of hardware / software designs for signal processing and communication applications

POs'

- PO1 → Engineering knowledge
- PO2 → Problem analysis
- PO3 → Design/development of solutions
- PO4 → Conduct investigations of complex problems
- PO5 → Modern tool usage
- PO6 → The engineer and society
- PO7 → Environment and sustainability
- PO8 → Ethics
- PO9 → Individual and team work
- PO10 → Communication
- PO11 → Project management and finance
- PO12 → Life-long learning

V R Siddhartha engineering College

Department of ECE

News Letter Editorial Board

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Head of Dept
ECE

Editor

Mrs. Y Sarada Devi
Asst.Professor
ECE

Student Editors

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A Gayathri 198W1A0469

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.