

Newsletter

We Communicate Our Vision!

SIGNALS



**HALF - YEARLY
NEWS LETTER**

VOLUME: 20

JAN: 2022

Newsletter

**Electronics & Communication
Engineering**

**PRASAD V POTLURI
SIDDHARTHA
INSTITUTE OF TECHNOLOGY**



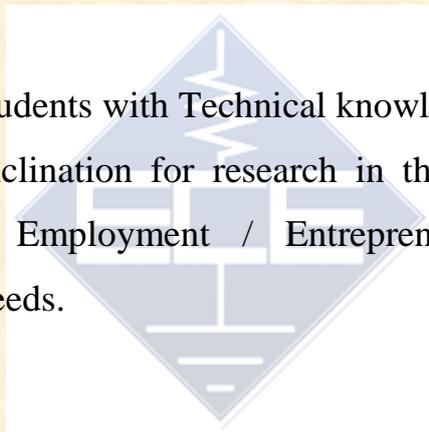
Prasad V. Potluri Siddhartha Institute of Technology

Vision

To provide rich ambience for Academic and Professional Excellence, Research, Employability skills, Entrepreneurship and Social responsibility.

Mission

To empower the students with Technical knowledge, Awareness of up-to-date technical trends, Inclination for research in the areas of human needs, Capacity building for Employment / Entrepreneurship, Application of technology for societal needs.



Department of Electronics and Communication Engineering

Vision

To evolve as a center of excellence by adopting innovative methods for teaching, learning and research in the diversified fields of Electronics and Communications.

Mission

To empower the students with technical knowledge in Electronics and Communications for pursuing higher education, for becoming entrepreneur / employees of prominent companies and also motivating them towards research to meet the societal needs.

Program Educational Objectives

PEO-I	Capable of applying the knowledge of basic sciences and engineering to understand the new concepts of Electronics and Communication Engineering
PEO-II	Able to demonstrate technical competence for the design and development of innovative electronic and communication systems.
PEO-III	Able to work in a team for the fulfillment of leadership role in a company/organization
PEO-IV	Able to demonstrate passion for life-long learning through interdisciplinary research works or projects to cater societal needs.

Program Objectives

PO-1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO-2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO-3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO-4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO-5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO-6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO-7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO-8	Ethics: Apply ethical principles and commit to professional ethics and

	responsibilities and norms of the engineering practice.
PO-9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO-10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO-11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO-12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes

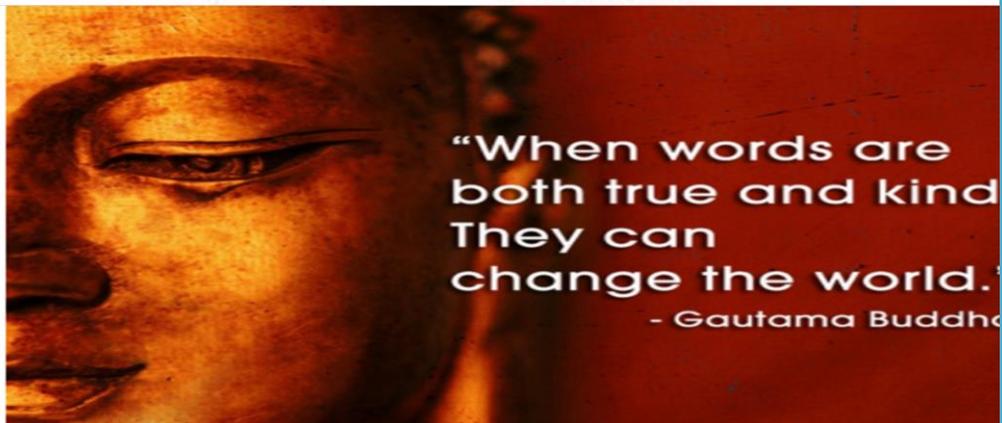
PSO-1	Demonstrate competency in analysis, design and simulation of complex electronic and communication systems.
PSO-2	Develop smart systems to meet the societal needs.

EDITORIAL BOARD

1. Dr C.Subba Rao
Professor & Head
2. Dr. K. Ramanjaneyulu
Professor
3. Mrs. K.Anitha
Associate Professor
4. Mrs. D.Hareesha,
Assistant Professor
5. Dr. V.S.D.Rekha,
Assistant Professor
6. Mr. Abdul Parvez
(19501A0401) III B.Tech
7. Ms. M.Taruni
(19501A04B5) III B.Tech
8. Ms. D.Jahnavi
(20501A0428) II B.Tech
9. Mr. R.Santosh Kumar
(20501A0495) II B.Tech

Inside:

- ✓ Workshops/Seminars/Guest Lectures/ Training Programs/Symposiums/Quiz organized
- ✓ Papers presented in Seminars/ Conferences/Symposiums by the faculty
- ✓ Workshops/Seminars/STTP/Conference/Faculty Development Programs attended by the faculty
- ✓ Publications by the faculty
- ✓ Faculty Achievements
- ✓ Students achievements
- ✓ Higher Education
- ✓ MOUs Signed
- ✓ Students Contribution



1. Workshops/Seminars/Guest Lectures/Training Programs/Symposiums/ Webinars organized

The department of Electronics and Communications Engineering organized ---

1. Organized **Book Club – Activity** to encourage II B.Tech ECE students to pick and read appropriate ECE related books from the library to solve different tasks on different subjects under IETE Student Forum on 7th January, 2022.

Program Coordinator: Dr.T. Haritha, Associate Professor, ECE

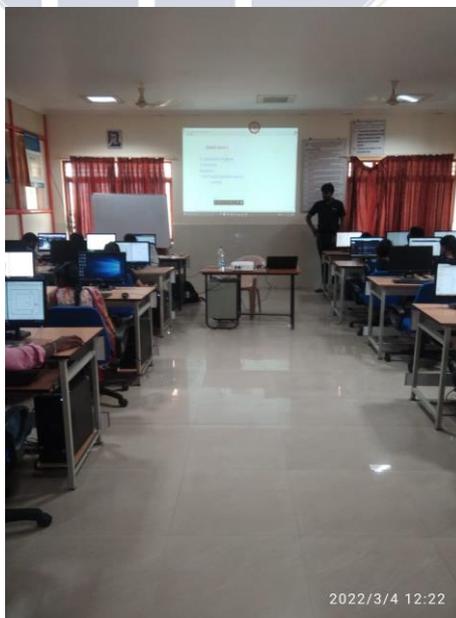
2. **Industrial visit:** II B.Tech students visited Dr. Narla Tatarao Thermal Power Station (VTPS), Ibrhimpatnam, Vijayawada on 5th& 6th February, 2022.

Program Coordinator: Mr. B.SuryaPrasada Rao, Associate Professor, ECE

3. Organized 5 day Training on **Labview** for students of III B.Tech students from 28th February – 4th March, 2022.

Program Coordinator: Dr.A. Geetha Devi, Associate Professor, ECE

Resource Person: Mr. Esaki Raja, Sr. Application Engineer, VI Solutions, Bangalore.



4. Organized 3 day training on **Design of Antennas for 5G Applications Using HFSS** for B.Tech students from 3rd -5th March, 2022.

Resource Persons: Dr. C. Subba Rao, Professor

Mrs. B. Swathi Lakshmi, Assistant Professor

Mrs. L. Madhavi Devi, Assistant Professor

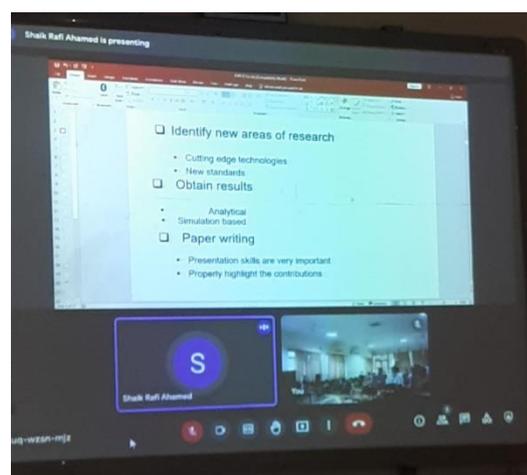


5. Organized a guest lecture on **Electromagnetic Radiation Hazards in Cell Phones/ towers** for II & III B.Tech students on 10th March, 2022.

Resource Person: Dr. D. Sriram Kumar, Professor, Department of ECE,
National Institute of Technology, Tiruchirappalli.

6. Organized a guest lecture on **Research Problem Identification, Publication And Funding** for faculty on 16th March, 2022.

Resource Person: Dr. Shaik Rafi Ahamed, Professor, EEE Department, IIT Guwahati.

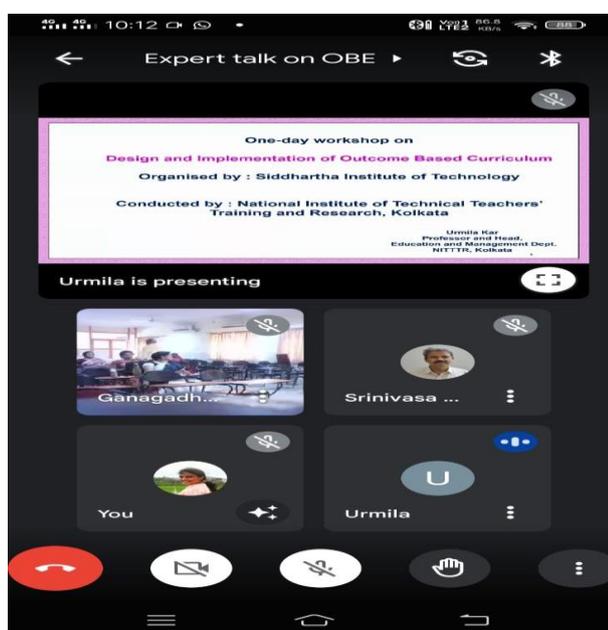


7. Organized a guest lecture on **VLSI Architectures for Signal Processing Algorithms** for II & III B.Tech students on 16th March, 2022.

Resource Person: Dr. Shaik Rafi Ahamed, Professor, EEE Department, IIT Guwahati.

8. Organized one day webinar on **Design and Implementation of Outcome Based Curriculum** for faculty on 19th March, 2022.

Resource Person: Dr. Urmila Kar, Professor and Head of the Department,
Department of Education and Management
NITTTR, Kolkata.



9. Under IETE Student Forum Fundraised to Procure and donate the essential commodities to the neighbouring old age homes to support the elderly people with funds received from faculty and students of the department. This is donated to **AMMA NANAA Old Age Home** located at kethanakonda, Krishna district on 21st March, 2022.

Program Coordinator: Dr. C. Subba Rao, Professor, ECE
Dr.K. Ramanjaneyulu, Professor
Dr.T. Haritha, Associate Professor, ECE

10. Department of Electronics & Communication Engineering in association with Andhra Pradesh State Skill Development Corporation conducted a 6 day workshop on **PCB Design Program** for students of II B.Tech ECE from 14th – 19th March, 2022 (for Sec 1) & 21st – 26th March, 2022 (for Sec 2).

Program Coordinator: Haji Habibulla MD, Sr. Assistant Professor, ECE
Resource Persons: Ms. Rubeena, Trainer APSSDC
Jaya Shankar Prasad, Trainer APSSDC

11. Organized a webinar on **National food security ACT-2013** for II& III B.Tech students on 21st March, 2022.

Program Coordinator: Mrs. T. Maha Lakshmi, Assistant Professor, ECE

Resource Persons: Mr. Nagabathula Srinivasa Rao,
Member-A.P State food commission



12. Organized 2 day workshop on **Design and Development of IOT Based Applications** for Technicians on 28th& 29th, March 2022.

Resource Persons: Mr Pradeep, Raadaan Technologies, Vijayawada.

Mr. Vamsi, Raadaan Technologies, Vijayawada.



13. Organized a guest lecture on 1. **Challenges in Establishment of Start-Ups**, 2. **Financial Management** for III B.Tech. Students on 31st March, 2022.

Program Coordinator: Mr. A. Ashok Babu, Asst. Prof.

Resource Person: Mr. M. Phanindra, Co- Founder, Logik works Company

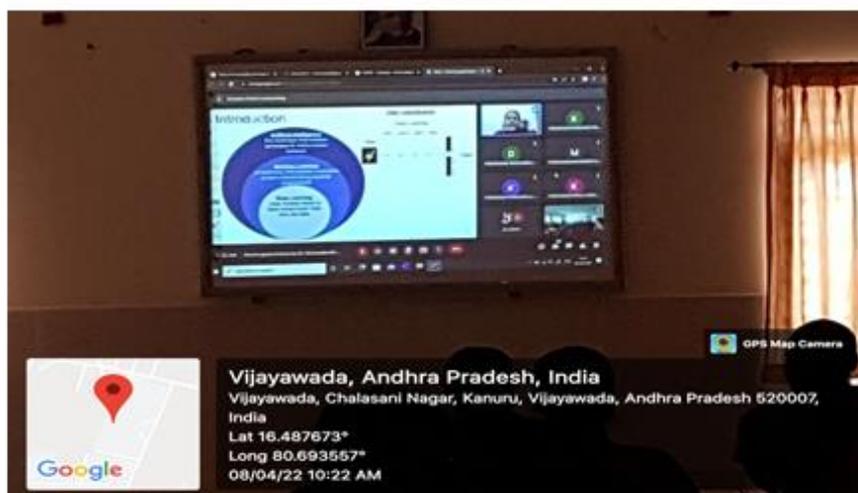
Mr. V. Bhargav Kumar, Sr. Technical Specialist, IBM

14. Organized a guest lecture on **Brain Tumor Detection Using Machine Learning** for III B.Tech students on 26th April, 2022.

Program Coordinator: Mrs. V.Ratna Kumari, Assistant Professor, ECE

Resource Person: Dr.G. Sreedevi, Asst. Professor, Dept of Computer Science and Information Systems, California State University, USA

Alumni 2010-2014



15. Organized a guest lecture on **Air Navigation Services in India: Role of Electronics and Communication** for III B.Tech students on 26th April, 2022.

Resource Person: M.L.K. Reddy, Joint General Manger, Department of Airports

Authority of India, Vijayawada Airport

16. Organized a guest lecture on **My Real Time Experience in Software World** for III B.Tech students on 27th April, 2022.

Program Coordinator: Mrs. V.Ratna Kumari, Assistant Professor, ECE

Resource Person: Y. Chaitanya Siddhartha, Virtusa IT Consulting PVT LTD

Hyderabad

Alumni 2006-2010



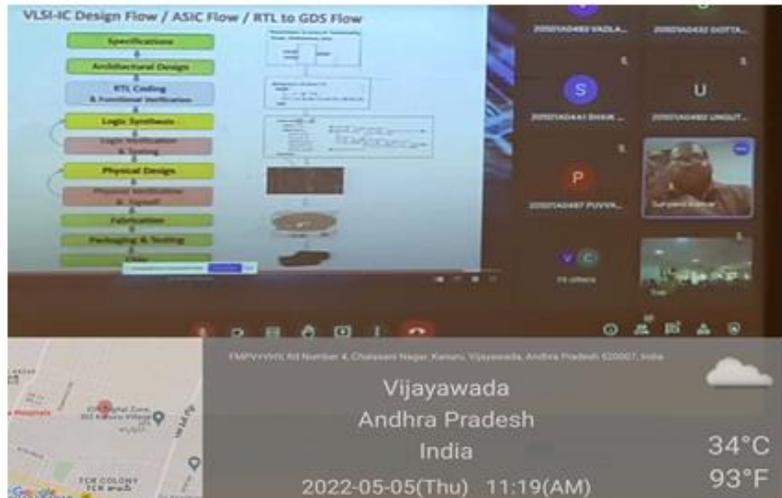
17. Organized a guest lecture on **VLSI Career Opportunities- How to be Industry Ready?** for II B.Tech students on 5th May, 2022.

Program Coordinator: Mrs. V.Ratna Kumari, Assistant Professor, ECE

Resource Person: Mr.B Surya Anil Kumar, Lead - IP/SoC Verification Engineer

Delancy Technologies

Alumni 2009-2013



18. Organized **Project Working Models Poster Presentation** contest for IV B.Tech ECE Students Under IETE Student Forum on 11th May, 2022.

Program Coordinator: Dr.T.Haritha, Associate Professor, ECE

Mrs.K.Anitha, Associate Professor, ECE

Dr.B.SuryaPrasada Rao, Associate Professor, ECE

Judge: Dr. D. Venkata Rao Head & Professor ECE department VRSEC

19. IETE Student Forum in collaboration with IETE Vijayawada Center& Institute of Engineers India (IEI),Vijayawada Center, Institution of Engineers organized “World Telecommunication Day”. An expert talk was delivered on the Theme – **Digital Technologies for Older Persons and Healthy Ageing** for II &III ECE Students on 17th may 2022.

Program Coordinator: Dr. C. Subba Rao, Professor, ECE

Dr.K. Ramanjaneyulu, Professor

Dr.T. Haritha, Associate Professor, ECE

Resource Person: Er. G.V.Manoj Kumar, ITS Director (Security) Department of Telecommunications, Ministry of Communications, Vijayawada.



20. Organized a guest lecture on **Career in VLSI and Goal Setting** for II B.Tech students on 12th May, 2022.

Program Coordinator: Mrs.V.Ratna Kumari, Assistant Professor, ECE

Resource Person: Mr. K. Ashok, Senior Engineer, Qualcom India Pvt. Ltd.,
Bangalore, Alumni 2013-2017



2. Papers presented in Seminars/Conferences/Symposiums by the faculty:

- i. Dr. C. Subba Rao, Mrs. L. Madhavi Devi, MrsB. Swati Lakshmi presented a paper entitled **Design and Analysis of Loop Antenna for Wideband Operations** - 4th International conference on smart systems & innovative technology, Francis Xavier Engineering, Tirunelveli, India, January, 2022.
- ii. Mrs.B.Swati Lakshmi, Dr.C.SubbaRao, Mrs.L.Madhavi Devi presented a paper entitled **A Compact Multi Band Antenna for Military and Modern Communication Application** - 4th International conference on smart systems & innovative technology, Francis Xavier Engineering, Tirunelveli, India, January, 2022.
- iii. Mrs.L.Madhavi Devi, Dr.C.Subba Rao, Mrs.B.Swati Lakshmi presented a paper entitled **Analysis of Proximity Coupled Micro Strip Feed Linear Antenna Array for 5G Applications** - 4th International conference on smart systems & innovative technology, Francis Xavier Engineering, Tirunelveli, India, January, 2022.
- iv. Mrs.V.S.D. Rekha presented a paper entitled **Design and Development of Ultra Wide Band Antenna with Tri Band Notch** - 4th International conference on smart systems & innovative technology, Francis Xavier Engineering, Tirunelveli, India, January, 2022.

- v. Dr. Md. Habibulla Mohammad, presented a paper entitled **Audio-Based Vehicular Collision Detector Using Machine Learning Algorithm** - Third International conference on instrumentation, MEMS and bio sensing Technology, SRM Institute of Science & Technology, February, 2022.
- vi. Mrs.Praveena Bai D, presented a paper entitled **Design and Implementation of CNN-FPGA Accelerator Based on Open Computing Language** - ICEEICT 2022, Ramakrishnan College of Engineering, Tiruchirappalli, Chennai. India, Vol: 1, Issue: 1, Page No.1-10, February, 2022.
- vii. Mrs.V.S.D.Rekha presented a paper entitled **Condition Monitoring and Detection of Hazardous Gas Leakage Using Smart Device** - International Conference on Electronics and Renewable Systems ICEARS, St. Mother Theresa Engineering College Tamil Nadu, March, 2022.
- viii. Dr.A.Geetha Devi, presented a paper entitled **Optimization Strategies For High-Speed Electrical Trains Based On Artificial Intelligence For Cost And Energy Reduction** - 2022 International Conference on Electronics and Renewable Systems ICEARS, St. Mother Theresa Engineering College Tamil Nadu, Vol: 1, Issue: 1, Page No.1-5, March, 2022.
- ix. Mrs.B.V. Subbayamma, presented a paper entitled **Implementation Of Qos-Improved Region Based Routing Protocol To Enhance Energy Efficiency In MANET** - International Conference on Advanced Computing & Communication System ICACCS, Sri Eshwar College of Engineering (Autonomous), Coimbatore, Tamil Nadu, India, March, 2022.
- x. Dr K. Ramanjaneyulu, et.al presented a paper entitled **Detection and Classification of Lung Cancer Using VGG-16** - 2022 International Conference on Electronic Systems and Intelligent Computing (ICESIC), 2022, pp. 69-72, doi: 10.1109/ICESIC53714.2022.9783556.

- xi. Mrs. D.Swathi, presented a paper entitled **Reconfigurable Band Switching Antenna for Millimeter Wave Applications-** IEEE International Conference on Communication, Computing & Internet of Things, Sai Ram Engineering College Chennai, March, 2022.
- xii. Mrs.D. Swathi, presented a paper entitled **Internet of Things (IoT) Based Comprehensive Testing Of 5G Network For Specific Absorption Rate (SAR) -** 2022 International Conference on Electronics and Renewable Systems, St. Mother Theresa Engineering College Tuticorin, India, March, 2022.
- xiii. Mrs.V.Ratna Kumari, presented a paper entitled **Social Distance Monitoring -** International Conference on Recent Advancements and Innovations in Computing, Communications and Information Technology, NRI Institute of Technology, Vijayawada, India during 22nd -24th April, 2022.
- xiv. Mrs.D.Hareesha, presented a paper entitled **Automatic Parking System -** International Conference on Recent Advancements and Innovations in Computing, Communications and Information Technology, NRI Institute of Technology, Vijayawada, India during 22nd -24th April, 2022.
- xv. Mrs.K.Aruna Kumari, presented a paper entitled **Comparison of PAPR Reduction Using ABC-FF Algorithm -** Second international conference on Advances in Management, Engineering & Technology (ICAMET-2022),RSP Conference Hub, Coimbatore,Tamilnadu,India,June2022

3. Workshops/ Seminars/STTP/Conferences/Faculty Development Programmes/ Awareness programmes attended by the faculty:

a) Seminars/Webinars:

- i. Dr. C. Subba Rao, Dr. J. Ravindra Babu, Mr. B. Surya Prasada Rao, Mrs. K. Aruna Kumari, Dr.Haji Habibulla MD, Ms T. Sushma, Mrs. V. Ratna Kumari, Ms. D. Hareesha, Mrs. B. V. Subbayamma, Dr. V. S.D.Rekha, Mrs D Swathi participated in a webinar on

Design and Implementation of Outcome Based Curriculum conducted by NITTTTR, Kolkata, on 19th March' 2022.

- ii. Dr.Haji Habibulla MD, participated in a webinar on **Powering Drug Discovery through Research Intelligence** conducted by CLARIVATE, during 17th - 19th May' 2022.
- iii. Dr.Haji Habibulla MD, participated in a webinar on **Simulation Best Practices for Vehicle Engineering** conducted by Elsevier (BrightTALK), on 11th April ' 2022.
- iv. Dr.Haji Habibulla MD, participated in a webinar on **Optimized Chip Design with Main Processors and AI Accelerators** conducted by Scopus (BrightTALK), on 21st February' 2022.
- v. Ms T. Sushma, participated in a webinar on **Blockchain Technology and its Applications** conducted by IETE SIVAKASI CENTRE, on 5th March' 2022.
- vi. Dr. V. S.D.Rekha, Mrs. D Swathi, participated in a webinar on **Guidelines for Quality Publication of Project Works** conducted by Department of Computer Science and Engineering in association with IQAC, VRSEC, on 4th February' 2022.
- vii. Ms. Sri Lakshmi Ch, participated in a webinar on **Scintilla 3.0 A Flash of Brilliance** conducted by Prasad V. Potluri Siddhartha Institute of Technology, on 11th February' 2022.

b) Workshops:

- i. Dr. J. Ravindra Babu Dr. B samuyelu Ms. D.Praveena Bai, participated in a workshop on **Recent Trends in Radar Signal Processing** organized by Department of ECE, Gayatri Vidyaparishad College of Engineering for Women during 3rd – 5th January' 2022.
- ii. Dr. K. Ramanjaneyulu, participated in a workshop on **National Level Workshop on NIRF INDIA RANKINGS 2022** For Higher Educational Institutions organized by Institute for Academic Excellence in collaboration with Collegiate Education & Technical Education Department, Govt. of Telangana, during 5th – 6th, January' 2022.

- iii. Ms. D. Hareesha, participated in a workshop on **Medical Image & Signal Processing Using Python** organized by Dept. of CSE Sasi Institute of Tech & Engg & IEEE Computer Society Vizag Bay Section during 7th – 12th March' 2022.
- iv. Mr. A. Ashok Babu participated in a workshop on **Collecting Literature, Manuscript Preparation and Publishing** organized by SIES (Nerul) College of Arts, Science & Commerce, Nerul, Navi Mumbai during 21st – 28th March' 2022.
- v. Ms.K. Anitha participated in a workshop on **VLSI Design using EDA Tools** organized by Gayatri Vidya Parishad college of Engineering during 18th –22nd April' 2022.

c) STTP/STCs:

- i. Dr. J. Ravindra Babu, participated in Short Term Training Programme on **AICTE Student Learning Assessment** organized by Construction Industry Development Council (CIDC) during 7th - 19th February' 2022.
- ii. Ms. D.Praveena Bai participated in Training Programme on **Soft Skills** organized by NITTTR Chennai during 7th - 11th February' 2022.
- iii. Mrs. K. Aruna Kumari, Mrs.Ch. Sri Lakshmi, Mrs. D.Swathi participated in Short Term Training Programme on **Machine Learning (With Python)** organized by Department of Computer Science & Engineering, Information Technology and Electronics & Telecommunication Engineering Dr. J. J. Magdum College of Engineering, Maharashtra during 8th - 12th February' 2022.
- iv. Dr. K. Ramanjaneyulu, Dr. J. Ravindra Babu, Mrs. K. Aruna Kumari, Dr. B. Samuyelu, Dr.Haji Habibulla MD, Ms T. Sushma, Mrs. V. Ratna Kumari, Mrs. D. Hareesha, Mrs. B. V. Subbayamma, Ms. D.Praveena Bai, Mrs. D Swathi, Ms. T. Maha Lakshmi participated in **IP Awareness/Training program under National Intellectual Property Awareness Mission** conducted by PVP Siddhartha Institute of Technology, on 23rd February' 2022.
- v. Ms. B. Swathi Lakshmi Ms. L. Madhavi Devi participated in Short Term Training Programme on **Electromagnetics: Recent Trends and Future Applications** organized

by Department of Electrical Engineering, IIT Indore during 28th February – 5th March' 2022.

- vi. Dr. T. Haritha, Mrs. D. Hareesha, Dr. V. S.D.Rekha participated in Training Programme on **Advanced Communication Systems** organized by NITTTR -Chennai during 28th February - 4th March' 2022.
- vii. Dr. J. Ravindra Babu participated in Training Programme on **Computational Intelligence and Machine Learning** organized by Department of Computer Science & Engineering, Sant Longowal Institute of Engineering and Technology, Punjab during 14th - 15th March' 2022.
- viii. Dr. C. Subba Rao Ms T. Sushma Dr. V. S.D.Rekha participated in Short Term Training Programme on **Microwave and beyond: Present and Futuristic Wireless Communication Systems** organized by Kalimpong Government Polytechnic during 4th - 8th April' 2022.

d) Faculty Development Programmes:

- i. Dr. Ch. Gangadhar, participated in Faculty Development Programme on **Computational Intelligence** organized by National Institute of Technology, Agartala during 3rd – 7th January' 2022.
- ii. Dr. Ch. Gangadhar, participated in Faculty Development Programme on **Signal Processing for Cognitive Neuroscience Applications** organized by National Institute of Technology, Meghalaya during 17th – 21st January' 2022.
- iii. Mr. B. Surya Prasada Rao, participated in ATAL Faculty Development Programme on **Industry 4.0** organized by Department of Electronics & Communication Engineering, ACS College of Engineering during 31st January – 4th February' 2022.
- iv. Dr. J. Ravindra Babu, Dr. T. Haritha, Mrs. K. Aruna Kumari, Mr. T. Balaji, Ms T. Sushma, Mrs. V. S.D.Rekha, Mrs. D Swathi participated in Faculty Development

Programme on **Advancements on Antenna Technologies for future Applications** organized by Department of ECE, PVPSIT during 14th – 19th February’ 2022.

- v. Dr. Ch. Gangadhar, participated in ATAL Faculty Development Programme on **Photonics and its application** organized by Sardar Vallabhbhai National Institute of Technology, during 14th – 18th February’ 2022.
- vi. Mr. M. Srinivasa Rao, Mrs.K. Anitha participated in Faculty Development Programme on **Trends and Challenges in Advanced VLSI System Design** organized by SRKR during 21st –26th February’ 2022.
- vii. Dr. J. Ravindra Babu, participated in Faculty Development Programme on **Applications of Machine learning in health care Technology** organized by Narayana Engineering College, Nellore during 22nd – 26th February’ 2022.
- viii. Dr. J. Ravindra Babu, Mr. M. Srinivasa Rao, Mrs.K. Anitha, Mrs D Swathi participated in Faculty Development Programme on **Advanced Signal Processing, Communications using AI and ML Techniques** organized by Department of ECE, GMR Institute of Technology and Sri Sairam Institute of Technology during 21st – 25th March’ 2022.
- ix. Dr. V. S.D.Rekha participated in Faculty Development Programme on **Innovation and Entrepreneurship** organized by Centre for Innovation, Incubation and Entrepreneurship, National Institute of Technology, Meghalaya during 22nd – 26th March’ 2022.
- x. Mr. A. Ashok Babu, participated in Faculty Development Programme on **Research Applications in Machine Learning-2022** organized by GMR Institute of Technology, Rajam and Andhra University College of Engineering, Visakhapatnam during 28th March – 01st April’ 2022.
- xi. Dr. V. S.D.Rekha, participated in Faculty Development Programme on **Disruptive Technologies in Communication** organized by Sairam Institute of Technology Chennai during 30th – 31st March’ 2022.

- xii. Dr. T. Haritha, Ms.K. Anitha, Mrs. Ch.Sri Lakshmi participated in Faculty Development Programme on **Advances in signal processing** organized by LBRCE during 4th – 8th April' 2022.
- xiii. Mrs. V. Ratna Kumari, Mrs. B. V. Subbayamma, Dr. V. S.D.Rekha participated in Faculty Development Programme on **Machine Learning : Techniques and Applications** organized by PVPSIT during 22nd – 23rd April' 2022.
- xiv. Dr. B. Surya Prasada Rao, participated in Faculty Development Programme on **Arduino based system design using Tinker CAD Free Simulator** organized by NITTTR, Chandigarh during 25th – 29th April' 2022.
- xv. Mrs. B. V. Subbayamma Mrs. Ch.Sri Lakshmi, participated in Faculty Development Programme on **Inculcating Universal Human Values in Technical Education** organized by AICTE during 9th – 13th April' 2022.
- xvi. Mrs. K. Aruna Kumari, Dr. V. S.D.Rekha participated in Faculty Development Programme on **Innovations and Entrepreneurship area in current Indian IPR framework** organized by Department of business administration, PVPSIT, Vijayawada on 12th April' 2022.
- xvii. Ms T. Sushma, Mrs. V. Ratna Kumari, Ms. D. Hareesha, Mrs. B. V. Subbayamma, Mrs Swathi D, participated in Faculty Development Programme on **Trends in Embedded Systems and IOT** organized by Department of ECE, Seshadrirao Gudlavalleru Engineering College during 20th – 25th June' 2022.

4. Publications by the faculty (National/International Journals/ Conferences):

a) Scopus indexed journals:

- i. Dr. Ch. Gangadhar, published a paper entitled **Association of Vaccine Medication for the Efficacious COVID-19 Treatment** - World Journal of Engineering, Vol.1, Issue: 19/1, P.P: 1708-5284, Feb-2022. (SCOPUS)

- ii. Dr.Ch.Gangadhar, published a paper entitled **Diagnosis of COVID-19 Using 3D CT Scans and Vaccination for COVID-19** - World Journal of Engineering, ISSN: 1708-5284, Vol:19, Issue:2, PP: 189-194, Mar 2022. (SCOPUS)
- iii. Dr.Ch.Gangadhar, published a paper entitled **COVID-19 Image Transmission using Convolutional Neural Networks based Algorithms for Medical Applications-** World Journal of Engineering, ISSN: 1708-5284, Vol: 19, Issue:2, PP: 183-188, Mar 2022. (SCOPUS)
- iv. Mr.K. Phani Rama Krishna, published a paper entitled **Extended Buffer Zone Algorithm to Reduce Rerouting Time in Biotelemetry Systems using Sensing-** ACTA IMEKO, ISSN: 2221-870X, Vol:11, Issue:1, PP: 1-7, March 2022. (SCOPUS)
- v. Mr. A. Ashok Babu, published a paper entitled **Mitigation of Spectrum Sensing Data Falsification Attack using Multilayer Perception in Cognitive Radio Networks-** ACTA IMEKO, ISSN: 2221-870X, Vol:11, PP: 1-7, March 2022. (SCOPUS)
- vi. Mrs.T.Maha Lakshmi, published a paper entitled **Enhancement of Energy Efficiency and Network Lifetime Using Modified MPCT Algorithm in Wireless Sensor Networks** - Journal of Interconnection Networks, March 2022 (online) (SCOPUS)
- vii. Dr. Habibulla Mohammad, Dr.Ch. Gangadhar, published a paper entitled **Spread Prediction of Covid-19 in Andhra Pradesh Based on Environmental Chemistry** - Rasayan J. Chem, ISSN: 0976-0083, Vol:15, Issue:2, PP: 806-812, April 2022. (SCOPUS)
- viii. Dr. B. Samuyelu, published a paper entitled **Target Application Based Design Approach for RF MEMS Switches using Artificial Neural Networks** - Transactions on Electrical and Electronic Materials, <https://doi.org/10.1007/s42341-021-00378-1>. (SCOPUS)

b) SCI/SCIE/ESCI indexed journals:

- i. Mr.M. Srinivasa Rao, published a paper entitled **A Novel Internet of Things (IoT) Enabled Platform for Patients with Type 1 Diabete** - Applied nano science, Feb 2022(online) (SCI).
- ii. Ms.T. Sushma, published a paper entitled **A New Method for Scene Classification from the Remote Sensing Images** - Computers, Materials & Continua, ISSN: 1546-2218, Vol:72, Issue: 1, PP: 1339-1355; Feb2022. (SCI)
- iii. Mr. B. Surya Prasada Rao et al. published a paper entitled **Google's New AI Technology Detects Cardiac Issues using Retinal Scan-** Appl Nano science (2022). <https://doi.org/10.1007/s13204-021-02208-5>. (SCI)

c) UGC/ Other journals:

- i. Mrs.V. Ratna Kumari, published a paper entitled **Remote Monitoring of Perishable Boots Using IOT** - Journal of Instrumentation and Innovation Science, ISSN: 2456-9860; Vol:07, Issue:1, PP:22-26, Feb2022.
- ii. Mrs.V. Ratna Kumari, published a paper entitled **A Novel Ear Detection Technique in Noisy Environment using Mean Structure Similarity Index Measure** - International Journal of Engineering Applied Sciences and Technology, ISSN: 2455-2143; Vol:06, Issue:12, PP:141-145, April2022.
- iii. Mr.K.Phani Rama Krishna, published a paper entitled **Dynamic Node Rank for Efficient System in Wireless Sensor Networks** - International Journal of Mechanical Engineering, Vol:7, issue: 4, P.P: 513-520, Apr-2022.
- iv. Mrs.K.Anitha, Mr. M. Srinivasa Rao, published a paper entitled **Convolutional Neural Network Based Plant Leaf Disease Detection** - Stochastic Modeling & Applications, ISSN: 0972-3641; Vol:26, Issue:3, PP:302-309, May2022. (UGC)

- v. Dr.Ch. Gangadhar, Dr. Md. Habibulla, Mr.K.Phani Rama Krishna, Mrs.T.Maha Lakshmi published a paper entitled **Fibonacci Multichaos Algorithm for Medical Image Encryption for Transmission Through Wavelet Transform Based OFDM System and its VLSI Realization** - International Journal of Online and Biomedical Engineering, ISSN: 2626-8493; Vol:18, Issue:6, PP:133-139, May2022.
- vi. Mrs. Sri Lakshmi Chandana, published a paper entitled **Selective Mapping Technique with Novel Symmetric Hankel Phase Sequences for PAPR Reduction in OFDM Systems** - International journal of mechanical engineering, Vol. 7, Issue:5, PP: 1047, May, 2022.
- vii. Mrs. V. RatnaKumari, published a paper entitled **Design and Implementation of Real time Ear Recognition System using DM6437** - Neuro Quantology, Vol.20, Issue : 5, P.P:4359-4366, May, 2022.
- viii. Mrs.K. ArunaKumari, published a paper entitled **Image Based Classification Healthy And Diseased Bell Pepper Using The Transfer Learning Method-** International journal of Health Sciences, June 2022. <https://doi.org/10.53730/ijhs.v6nS4.9631>

d) Book chapters:

- i. Dr.J. Ravindra Babu, published a book chapter on **Dark Web Pattern Recognition and Crime Analysis using Machine Intelligence-** Machine Learning Models in Detecting Cyber Crimes and Cyber Terrorism in India, ISBN13:9781668439425, May 2022.

5. Faculty Achievements (Patents, Higher Qualification awarded, guest lectures given, awards and rewards, acted as a Resource person etc.):

a. Patents:

- i. Dr.C.Subba Rao, Mrs.B.Swathi Lakshmi, Mrs.L.Madavi Devi published and granted a patent – **A Wide Band Curtain Antenna Using Biconical Element** with the

application no: 354747-001 on 02-02-2022 (**Granting Organization:** The Patent Office -Government of India).

- ii. Mrs.B.Swathi Lakshmi, Dr.C.Subba Rao, Mrs.L.Madavi Devi published and granted a patent – **Smart Window for Energy Saving** with the application no: 359278-001 on 24-02-2022 (**Granting Organization:** The Patent Office -Government of India).
- iii. Dr.T. Haritha, Dr.V S D Rekha published and granted a patent — **Banana Bunch Hanger** with the application no: 360010-001 on 17-06-2022 (**Granting Organization:** Indian Patent office).

b. Ph.D.'s awarded/Guided/Registered:

- i. **Mrs V.S.D. Rekha** awarded **Doctor of Philosophy (Ph.D.)** on 23rd February, 2022 from KL Deemed to be University and her research topic is Analytical Study on Compact Notch band Reconfigurable MIMO Antenna for WIMAX, DSRC, RADAR and KU Band.
- ii. **Mr. B.Surya Prasada Rao** awarded **Doctor of Philosophy (Ph.D.)** on 8th April, 2022 from JNTUK, Kakinada and his research topic is Development of Different Methodologies and a VLSI Architecture for Medical Image Fusion.
- iii. **Mrs. B. Swathi Lakshmi**, Assistant Professor, registered for Ph.D at JNTUK, Kakinada, on 26th April, 2022.

d. Others:

- i. Dr T. Haritha, appointed as **Technical Advisor** for SUNPACKAGING & SUNPOLYFILMS companies on 7th March, 2022.
- ii. **NPTEL online certification course** was conducted by IIT from Jan-April 2022. Exam was conducted in the month of March and April 2022. Following are the details of certified faculty.

S.No.	Name of the faculty	Course Name	Final Score	Certificate Type
1	Dr A Geetha Devi	Principles of Communication Systems - I	86	Elite + Silver

iii. Following faculty received course completion certificates for online courses through Infosys spring board offered by Infosys.

S.No	Name of The Faculty	Course Name	Course Completion Date
1	Dr T Haritha	Basics of python	23-06-2022
2	Kukati Aruna Kumari	Time management	22-06-2022
3	Dr.B.Samuyelu	Machine Learning for Absolute Beginners - Level 1	10-05-2022
4	T Balaji	Basics of business communication	13-04-2022
5	T.Sushma	Basics of Python	21-06-2022
6	V. Ratna Kumari	Internet of Thing 101	17-06-2022
7	Hareesha Dandamudi	Internet of Things 101	17-06-2022
		Machine Learning	06-05-2022
8	Bhimineni Venkata Subbayamma	Internet of Things 101	17-06-2022
9	Swathi Dasi	Basics of Phyton	21-06-2022
10	Sri Lakshmi Chandana	introduction to python	17-06-2022
11	Praveena Bai Desavathu	Time Management	21-06-2022
12	T.Mahalakshmi	Basics of python	07-05-2022

6. Students' achievements:

a) Co-curricular Activities:

Certification Courses:

- i. **Abdul Parvez** with Reg.No. 19501A0401 was NPTEL Topper for **NPTEL online certification course on Introduction to Programming In C** conducted by IIT from Jan-April 2022. He received cash prize from the department as a token of appreciation.



- ii. **NPTEL online certification course** was conducted by IIT from Jan-April 2022. Exam was conducted in the month of march and April 2022. Following are the details of certified students.

Sl.No.	Reg. Number	Name of the Student	Course Name	Final	Certificate Type
1	19501A04B7	PrudhvirajTeki	Analysis and Design Principles	50	Successfully completed
2	20505A0406	Lalam Dora Babu	Introduction to Programming In C	72	Elite
3	19501A04C3	Vinnakota Sreehitha	Data Base Management	64	Elite
4	20501A0495	Rompelli Santhosh Kumar	Fundamentals of semiconductor	49	Successfully completed
5	19501A0488	SrujanaPoluru	An Introduction to Programming Through C++	69	Elite
6	20501A04A3	SweekarSonti	Machine Learning, ML	48	Successfully completed
7	19501A0494	Pujitha Prathipati	Problem Solving Through Programming in C	78	Elite +Silver
8	19501A04B1	Sylaja Puli	Problem Solving Through	78	Elite +Silver
9	19501A04A4	Roshini Parasa	Problem Solving Through	71	Elite
10	19501A04B0	Sunkara Neha Sravya Sri	Problem Solving Through	75	Elite +Silver
11	19501A0438	Purna Durga Prasad	Programming In Java	75	Elite +Silver
12	19501A04C4	Yadagiri Lokesh	Data Base Management	58	Successfully completed
13	19501A0439	J.Manikanth	Programming In Java	76	Elite +Silver
14	19501A0401	Abdul Parvez	Introduction to Programming In C	97	Elite+Gold
15	20505A0411	S. Rupa Devi	Antennas	58	Successfully completed
16	20505A0406	Lalam Dora Babu	Digital System Design	72	Elite
17	20501A0413	B. Rammohan	Digital System Design	60	Elite

- iii. 112 students of III B.Tech received course completion certificates for different online courses through Infosys spring board offered by Infosys.

- iv. 84 students of II B.Tech received course completion certificates for different online courses through Infosys spring board offered by Infosys.
- v. IEEE Certificate of Accomplishment - Two Day National Level Technical Symposium, Ecentra 2022 Fest, was organized by Dept. of ECE, JNTU-GV College of Engineering, Vizayanagaram on 21st& 22nd April, 2022. Following are the details of the participated students

S.No	Reg. No.	Name	Year of	Title of the Paper/ Poster/	Prize Won
1	19501A0409	B. Michael	III	Work Shop Embedded Systems	Participation
2	19501A0420	D.Naga Siva Rama Raju	III	Work Shop	Participation
3	19501A0426	D. Eswara Priya	III	Embedded Systems	Participation
4	19501A0427	G.Bala Manikanta	III	Digital Circuit Design in FPGA	Participation
5	19501A0428	Gali Jaswanth	III	Digital Circuit Design in FPGA	Participation
6	19501A0432	G. Jagadeesh	III	Embedded Systems	Participation
7	19501A0432	G Akhil	III	Embedded Systems	Participation
8	19501A0438	Jammu Poorna Durga Prasad	III	Digital Circuit Design in FPGA	Participation
9	19501A0461	M. Siddhartha	III	Embedded Systems	Participation
10	19501A0416	Ch. Keerthana	III	Digital Circuit Design in FPGA	Participation
11	19501A0430	G.Krishna Praneetha	III	Digital Circuit Design in FPGA	Participation
12	19501A0454	L.Sahiti Kaustubha	III	Digital Circuit Design in FPGA	Participation
13	19501A0456	M.Parani	III	Digital Circuit Design in FPGA	Participation
14	19501A0401	Abdul Parvez	III	Embedded Systems	Participation
15	19501A0407	A. Maha Siva Parvathi	III	Digital Circuit Design in FPGA	Participation
16	19501A0414	B.Vineela	III	Digital Circuit Design in FPGA	Participation
17	19501A0429	G.Pratyusha	III	Digital Circuit Design in FPGA	Participation
18	19501A0408	A.Divya Sri	III	Digital Circuit Design in FPGA	Participation

19	19501A0452	K.Bindu	III	Embedded Systems	Participation
20	20505A0405	K.Vinod	III	Embedded Systems	Participation

Microsoft Skill Development Program: Following are the details of students certified for the courses offered by APSCHE.

Sl. No	Reg. No.	Name of The Student
Course: Introduction to programming using Java		
1	19501A0469	Charan Sai Mekala
2	19501A0472	Revanth Mulukutla
Course: Mobility and Device Fundamentals		
3	20501A0412	Battina Madhuri
4	20501A0434	Bhaskar Gunuru
5	20501A0435	Jai Sammeta
6	20501A0447	Konda Kundana
7	20501A04C4	Venkata Sai Chherukuru

IIT Kanpur Training Program: Following are the details of students attended training program offered by E & ICT Academy, IIT Kanpur.

S. No	Roll. No	Name of the Student	From	To
Topic: App Development with android				
1	20501A0454	L Harshitha	27.12.2021	26.01. 2022
2	20501A0439	K Dharani Supraja	27.12.2021	26.01. 2022
3	20501A0430	G Revanth	27.12.2021	26.01. 2022
Topic: App Development with android with java				
4	20501A0423	D Dwijith	27.12.2021	26.01. 2022
Topic: Cloud Computing				

5	20501A0444	K Anvitha	27.12.2021	28.01. 2022
6	20501A0463	M Tanmayi	27.12.2021	28.01. 2022
7	20501A0491	Ramisetti Venkata Naga Sai	27.12.2021	28.01. 2022
8	20501A0484	Narapareddy Pranavi Sri	27.12.2021	28.01. 2022
9	20501A0475	Dinesh Babu Pallagani	27.12.2021	28.01. 2022
10	19501A0425	Edupalli Harshitha	27.12.2021	28.01. 2022
Topic: Cloud Computing using AWS				
11	20501A0453	V Lalitha	27.12.2021	28.01. 2022
12	20501A0458	M Manvitha Naga Siri	27.12.2021	28.01. 2022
13	20501A0455	M Jayatha	27.12.2021	28.01. 2022
14	20501A0431	G Kamaraju	27.12.2021	28.01. 2022
15	20501A0492	Ravada Anil Kumar	27.12.2021	28.01. 2022
16	20501A0496	Padma Sri Rugvedam	27.12.2021	28.01. 2022
17	20501A04C2	Swathi Vellanki	27.12.2021	28.01. 2022
18	20501A0480	Penumudi Kousalya	27.12.2021	28.01. 2022
19	20501A0487	Puvvada swathi Naga Manikanta Manasa	27.12.2021	28.01. 2022
20	20501A0488	Rabia Kousar	27.12.2021	28.01. 2022
21	20501A0498	Saripalli Pujitha Bhavani	27.12.2021	28.01. 2022
22	20501A04C5	V Ushaswini	27.12.2021	28.01. 2022
23	20501A04A1	Arshiya Shaik	27.12.2021	28.01. 2022
Topic: Competitive Coding Methods & Techniques (Level 1)				
24	20501A04C0	Vatturi Prasanna Ganesh	20.12.2021	22.01.2022
25	20501A0494	Reddy Shanmukha Vardhan	20.12.2021	22.01.2022
26	20501A0495	Rompelli Santosh Kumar	20.12.2021	22.01.2022
Topic: Cyber Security				
27	20501A0421	Ch. Gagan Nag	13.12.2021	January 2022
28	20501A04A7	Thatithuri Lalitha	13.12.2021	January 2022
29	19501A0489	P. Anil Kumar Reddy	13.12.2021	January 2022
Topic: Machine Learning				

30	20501A0449	K Ravali Priya	13.12.2021	25.01. 2022
31	20501A0422	D S Revanth	13.12.2021	25.01. 2022
32	20501A04B7	Vanga Ganesh Sai Karthek	13.12.2021	25.01. 2022
33	20501A04C6	Yadavalli Omkar	13.12.2021	25.01. 2022
34	20501A0493	R. Anil Kumar	13.12.2021	25.01. 2022
35	20501A04B4	Vadlamudi Sangeetha	13.12.2021	25.01. 2022
36	20501A04B2	Utlapalli. Meghana	13.12.2021	25.01. 2022
37	20501A0482	Podili.Sri Maheshwari	13.12.2021	25.01. 2022
38	20501A0479	Peddibhotla Satya Kowmudi	13.12.2021	25.01. 2022
39	20501A04A3	SontiSweekar	13.12.2021	25.01. 2022
40	20501A04A5	Tekimudi Sai Venkat	13.12.2021	25.01. 2022
41	20501A0465	Mohammad Jabeer Shareef	13.12.2021	25.01. 2022
42	19501A04C6	Y. Ravi Chandrika	13.12.2021	25.01. 2022
43	19501A04B6	T. Bhavishya	13.12.2021	25.01. 2022
44	19501A0495	P. Sermista	13.12.2021	25.01. 2022
45	19501A0483	P.V. Aditya Kumar	13.12.2021	25.01. 2022
46	19501A0472	M R D V N Surya Teja	13.12.2021	25.01. 2022
47	19501A04A7	S. BalaChandu	13.12.2021	25.01. 2022
48	19501A04A1	R S V R Lokesh	13.12.2021	25.01. 2022
49	19501A0469	M. Charan Sai	13.12.2021	25.01. 2022
50	19501A0446	Karre Dedeepya	15.12.2021	18.01.2022
Topic: Programming In C++				
51	20501A0424	D Devika	22.12.2021	20.01. 2022
Topic: Python				
52	19501A04B5	Taruni M	15.12.2021	18.01.2022
53	19501A0492	P. Jyotsna	15.12.2021	18.01.2022
54	19501A04C7	Y. Satya sri	15.12.2021	18.01.2022
55	19501A0487	P. Likhitha	15.12.2021	18.01.2022
56	19501A04A3	A. Rishitha	15.12.2021	18.01.2022

57	19501A04B2	T. Surya Bhavani	15.12.2021	18.01.2022
58	19501A0478	N. Yaraswini Chandrika	15.12.2021	18.01.2022
59	19501A04A0	R. Sangeetha	15.12.2021	18.01.2022
60	20505A0406	L. Dora Babu	15.12.2021	18.01.2022
61	19501A0401	Abdul Parvez	15.12.2021	18.01.2022
62	19501A0408	Avutapalli Durgasri	15.12.2021	18.01.2022
63	19501A0434	Gummadi Akhil	15.12.2021	18.01.2022
64	19501A0451	Konakalla Rajapunnamma	15.12.2021	18.01.2022
65	19501A0453	K. Pavan Kumar	15.12.2021	18.01.2022
66	19501A0450	K Lekhana Jyothi	15.12.2021	18.01.2022
67	19501A0407	Arepalli Maha Siva Parvathi	15.12.2021	18.01.2022
68	19501A0462	M. Deepika	15.12.2021	18.01.2022

c) Extra-curricular Activities:

ECE Student participated in college level cultural events organized on 23rd, May 2022.

Following are the details:

Sl.No	Name of The Student	Roll Number	Year	Event
1	S.Jahnavi	18501A0448	IV	Classical Dance
2	R.Padmasri P.Vamsi Sreedevi	20501A0496 20501A0476	II	Singing
3	T.Prudviraj S.Simhachalam R.Gopibhargav P.Revanth kumar R.Tarun P.Viswanath M.Harsha	19501A04B7 19501A04A9 19501A04A2 19501A0482 19501A04A5 19501A0493 19501A0467	III	Group Dance
4	P.Anil	20501A0474	II	Solo Dance
5	D.Tanmayi P.Vamsi Sreedevi	20501A0427 20501A0476	II	Group Dance
6	D.Nagasivaramaraju G.Jagadeesh B.Nitin	19501A0420 19501A0432 20505A0401	III	Group Dance
7	P.Revanth Kumar	19501A0482	III	Singing

9	P.Raju Sk.Firoj	20501A0485 20501A04A2	II	Group Dance
10	T.Prudviraj	19501A04B7		Singing
11	K.Dileep G.Balamanikanta	19501A0445 19501A0427	III	Group Dance
12	K.Navathej M.Gokulasai A.Surya A.Dinesh	20501A0437 20501A0457 20501A0408 20501A0407	II	Group Dance
13	P.Raju Sk.Firoj Sk.Shahid Md.Nazeer V.Koushik	20501A0485 20501A04A2 21505A0410 21505A0409 20501A04B8	II	Group Dance

Students qualified in GATE/IELTS/GRE/TOEFL and other competitive Examinations:

Sl. No.	Reg. No.	Name of the Student	GRE/IELTS
1	18501A0404	Akshay Chowdary Tondapi	IELTS
2	18501A0418	Srikanth Nagendra B	IELTS, GRE
3	18501A0423	Sri Lokesh C	GRE
4	18501A0424	Tejaswi C	GRE
5	18501A0459	Sasi Rekha Kolli	GATE
6	18501A0471	Maddali Sohit Venkata Sai	GATE
7	18501A0475	Vikas Mandada	IELTS
8	18501A0482	Jaya karthik N	IELTS
9	18501A0484	Parvatha Reddy Venkata Srinivas	GATE
10	18501A0491	RapalaJyothirmai	IELTS
11	18501A04B0	Tejaswini Uppalapati	GRE

12	18501A04B3	TusharV	GRE
13	18501A04B5	Siva Krishna V	IELTS
14	18501A04C0	Y.Yaswanth Reddy	IELTS
15	19505A0410	U. Naga satish	IELTS
16	19501A0443	K. Jaswanth	GATE
17	19501A04A1	Sai Venkata Rama LokeshkumarRanga	GATE
18	19501A04C8	Yogitha Arekatla	GATE

ii. Innovative Idea:

S.No.	Reg. No. of the Student	Name of the Student	Prize won
1	19501A0456	M V Sai Pavani	I
2	19501A0407	Arepalli Maha Siva Parvathi	II

iii.

Student Participations:

S. No	Reg No.	Name of the Student	Year of Study	Name of the Institute	Paper/Poster/Project Contest Held on /At)	Title of the Paper/Poster/Project	Prizes
1	19501A0431	Gogulapati Srinu	II	ERTS Lab, Dept. CSE, Indian Institute of Technology Bombay, Powai, Mumbai	06.07.2021	50 Days Online Crash Course on Embedded System and Robotics	Grade C Certificate
2	19501A0401	Abdul Parvez	II	ERTS Lab, Dept. CSE, Indian Institute of Technology Bombay, Powai, Mumbai	06.07.2021	50 Days Online Crash Course on Embedded System and Robotics	Grade B Certificate
3	19501A0426	Eswara Priya Damarla	II	ERTS Lab, Dept. CSE, Indian Institute of Technology Bombay, Powai, Mumbai	06.07.2021	50 Days Online Crash Course on Embedded System and Robotics	Grade C Certificate
4	19501A0432	Gokada Jagadheesh	II	ERTS Lab, Dept. CSE, Indian Institute of Technology Bombay, Powai, Mumbai	06.07.2021	50 Days Online Crash Course on Embedded System and Robotics	Grade C Certificate
5	19501A0407	Mahasiva Parvathi Arepalli	II	ERTS Lab, Dept. CSE, Indian Institute of Technology Bombay, Powai, Mumbai	06.07.2021	50 Days Online Crash Course on Embedded System and Robotics	Grade C Certificate
6	19501A0409	Michael Ballampudi	II	ERTS Lab, Dept. CSE, Indian Institute of Technology Bombay, Powai, Mumbai	06.07.2021	50 Days Online Crash Course on Embedded System and Robotics	Grade C Certificate
7	19501A0429	Pratyusha Garikipati	II	ERTS Lab, Dept. CSE, Indian Institute of Technology Bombay, Powai, Mumbai	06.07.2021	50 Days Online Crash Course on Embedded System and Robotics	Grade C Certificate
8	18501A0458	Koganti Gnanedra	III	Sir CR Reddy College of Engineering	2.07.2021	Measure Your Arc	Second
9	18501A0458	Koganti Gnanedra		Sir CR Reddy College of Engineering	3.07.2021	Digrade	Second

10	19501A0432	G.Jagadeesh	Azadi Ka Amrit Mahotsav 2021, Govt. of Andhra Pradesh in association with SAGTE and JIGNASA Interface Private Limited	26.11.2021 to 27.11.2021	Technical Quiz	1 st prize
11	19501A0461	M.Siddhartha	Azadi Ka Amrit Mahotsav 2021, Govt. of Andhra Pradesh in association with SAGTE and JIGNASA Interface Private Limited	26.11.2021 to 27.11.2021	Technical Quiz	Participated
12	205055A0405	K.Vinod	Azadi Ka Amrit Mahotsav 2021, Govt. of Andhra Pradesh in association with SAGTE and JIGNASA Interface Private Limited	26.11.2021 to 27.11.2021	Technical Quiz	Participated
13	19501A0429	G.Prathyusha	Azadi Ka Amrit Mahotsav 2021, Govt. of Andhra Pradesh in association with SAGTE and JIGNASA Interface Private Limited	26.11.2021 to 27.11.2021	Technical Quiz	Participated
14	19501A0401	Abdul Parvez	Azadi Ka Amrit Mahotsav 2021, Govt. of Andhra Pradesh in association with SAGTE and JIGNASA Interface Private Limited	26.11.2021 to 27.11.2021	Technical Quiz	Participated
15	19501A0407	A.Maha Siva Parvathi	Azadi Ka Amrit Mahotsav 2021, Govt. of Andhra Pradesh in association with SAGTE and JIGNASA Interface Private Limited	26.11.2021 to 27.11.2021	Technical Quiz	Participated
16	19501A0408	A.Durga Sri	Azadi Ka Amrit Mahotsav 2021, Govt. of Andhra Pradesh in	26.11.2021 to 27.11.2021	Technical Quiz	Participated

			association with SAGTE and JIGNASA Interface Private Limited			
17	19501A0432	G. Jagadeesh	Azadi Ka Amrit Mahotsav 2021, Govt. of Andhra Pradesh in association with SAGTE and JIGNASA Interface Private Limited	26.11.2021 to 27.11.2021	Technical Quiz	Participated
18	19501A0426	D. Esvara Priya	Azadi Ka Amrit Mahotsav 2021, Govt. of Andhra Pradesh in association with SAGTE and JIGNASA Interface Private Limited	26.11.2021 to 27.11.2021	Technical Quiz	Participated
19	19501A0409	B. Michael	Azadi Ka Amrit Mahotsav 2021, Govt. of Andhra Pradesh in association with SAGTE and JIGNASA Interface Private Limited	26.11.2021 to 27.11.2021	Technical Quiz	Participated
20	19501A0418	D.Sai Vasu Deva Praneeth	Azadi Ka Amrit Mahotsav 2021, Govt. of Andhra Pradesh in association with SAGTE and JIGNASA Interface Private Limited	26.11.2021 to 27.11.2021	Technical Quiz	Participated
21	19501A0440	J.Siva Bhanu Sricharan	Azadi Ka Amrit Mahotsav 2021, Govt. of Andhra Pradesh in association with SAGTE and JIGNASA Interface Private Limited	26.11.2021 to 27.11.2021	Technical Quiz	Participated
22	19501A0424	D.Harsha Chaitanya	Azadi Ka Amrit Mahotsav 2021, Govt. of Andhra Pradesh in association with SAGTE and JIGNASA Interface Private	26.11.2021 to 27.11.2021	Technical Quiz	Participated

			Limited			
23	19501A0420	D.Naga Siva Rama Raju	Azadi Ka Amrit Mahotsav 2021, Govt. of Andhra Pradesh in association with SAGTE and JIGNASA Interface Private Limited	26.11.2021 to 27.11.2021	Technical Quiz	Participated
24	19501A0434	G.Akhil	Azadi Ka Amrit Mahotsav 2021, Govt. of Andhra Pradesh in association with SAGTE and JIGNASA Interface Private Limited	26.11.2021 to 27.11.2021	Technical Quiz	1 st Prize
25	19501A0409	B.Michael	III IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU- GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	Work Shop Embedded Systems	Participation
26	19501A0420	D.Naga Siva Rama Raju	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU- GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	Work Shop	Participation
27	19501A0426	D.Eswara Priya	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU- GV College of Engineering	21.04.2022 to 22.04.2022	Embedded Systems	Participation

			Vizayanagaram.			
28	19501A0427	G.Bala Manikanta	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU- GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	Digital Circuit Design in FPGA	Participation
29	19501A0428	Gali Jaswanth	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU- GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	Digital Circuit Design in FPGA	Participation
30	19501A0432	G.Jagadeesh	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU- GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	Embedded Systems	Participation
31	19501A0432	G Akhil	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU- GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	Embedded Systems	Participation

32	19501A0438	Jammu Poorna Durga Prasad	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU- GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	Digital Circuit Design In Fpga	Participation
33	19501A0461	M.Siddhartha	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU- GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	Embedded Systems	Participation
34	19501A0416	Ch.Keerthana	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU- GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	Digital Circuit Design in FPGA	Participation
35	19501A0430	G.Krishna Praneetha	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU- GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	Digital Circuit Design in FPGA	Participation
36	19501A0454	L.Sahiti Kaustubha	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra	21.04.2022 to 22.04.2022	Digital Circuit Design in FPGA	Participation

			2022 Fest, Dept. of ECE, JNTU-GV College of Engineering Vizayanagaram.			
37	19501A0456	M.Parani	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU-GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	Digital Circuit Design in FPGA	Participation
38	19501A0401	Abdul Parvez	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU-GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	Embedded Systems	Participation
39	19501A0407	A.Maha Siva Parvathi	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU-GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	Digital Circuit Design in FPGA	Participation
40	19501A0414	B.Vineela	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU-GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	Digital Circuit Design in FPGA	Participation
41	19501A0429	G.Pratyusha	IEEE Certificate of		Digital Circuit Design	Participation

			Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU- GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	in FPGA	
42	19501A0408	A.Divya Sri	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU- GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	Digital Circuit Design in FPGA	Participation
43	19501A0452	K.Bindu	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU- GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	Embedded Systems	Participation
44	20505A0405	K.Vinod	IEEE Certificate of Accomplishment Two Day National Level Technical Symposium, Ecentra 2022 Fest, Dept. of ECE, JNTU- GV College of Engineering Vizayanagaram.	21.04.2022 to 22.04.2022	Embedded Systems	Participation

Student Paper Publications and Presentations:

S. No	Student Name	Title of The Paper	Journal Name	ISSN	Vo l	Issue	Page No	Indexin g	Month
1	Md. Fareeda Madeen Gouhe	A Lightweight CNN for Lung Nodule Detection And Classification From Chest Radiographs	Dogo Rangsang Research Journal	2347-7180	08	14(3)	187-195	UGC	Dec, 2021
2	U.Lekhana	A Lightweight CNN for Lung Nodule Detection And Classification From Chest Radiographs	Dogo Rangsang Research Journal	2347-7180	08	14(3)	187-195	UGC	
3	Ravi Kiran P	Development of Sun Tracking Solar Panel Using Msp430 Launch Pad	IOSR Journal of Engineering (IOSRJEN)	2250-3021	11	8	13-18	Oth	
4	Mohammad Faizan	Development of Sun Tracking Solar Panel Using MSP430 Launch Pad	IOSR Journal of Engineering (IOSRJEN)	2250-3021	11	8	13-18	Oth	
5	1.Muhammad Zubair, 2. M Umesh Kumar Aik, 3. Md. Fareeda Madeen Gouhe	Detection of Epileptic Seizures From ECG Signals by Combining Dimensionality Reduction Algorithms With Machine Learning Models	IEEE Sensors Journal (Early Access)	1558-1748	21	15	16861-16869	SCI	Aug,21

Conferences

S. No	Student Name	Title of The Paper	Conference Name	From Date	To Date	Venue Address	Organizers	ISN	Page No	Indexing
1	Surendra Babu S	Medicine Assistant And Diet Remainder For Secure Healthcare	6 th IEEE International Conference on Recent Trends on Electronics, Information, Communication & Technology	27-08-2021	28-08-2021	Bengaluru	Dept. of ECE, SVCE, Bengaluru			Scopus
2	Narendra Nath J	Medicine Assistant And Diet Remainder For Secure Healthcare	6 th IEEE International Conference on Recent Trends on Electronics, Information, Communication & Technology	27-08-2021	28-08-2021	Bengaluru	Dept. of ECE, SVCE, Bengaluru			Scopus
3	Kiran Kumar Gopathoti	FPGA Implementation Of Arbiter Pufs For Ideal Cryptographic Key Generation	5 th International Conference on Electronics, Communication And Aero Space Technology (ICECA)	02-12-2021	04-12-2021	Coimbatore	IEEE	978-1-6654-3524-6	754-757	Oth
4	J Rajeswari	FPGA Implementation Of Arbiter Pufs For Ideal Cryptographic Key	5 th International Conference on Electronics,	02-12-2021	04-12-2021	Coimbatore	IEEE	978-1-6654-3524-6	754-757	

		Generation	Communication And Aero Space Technology (ICECA)	21						
5	V Sai Teja	Design And Development Of Ultra Wide Band Antenna With Tri Band Notch	ICSSIT 2022 International Conference on Smart Systems and Inventive Technology	20-01-2022	22-01-2022	Francis Xavier Engineering College	Francis Xavier Engineering College	--	-	Scopus
6	Y.Teja Sai P.Adithya	Design And Development Of Ultra Wide Band Antenna With Tri Band Notch	ICSSIT2022 International Conference on Smart Systems and Inventive Technology	20-01-2022	22-01-2022	Francis Xavier Engineering College	Francis Xavier Engineering College	---	---	Scopus

7. Higher Education

Sl. No.	Reg. No.	Name of the Student	GRE/IELTS
1	18501A0404	Akshay Chowdary Tondapi	IELTS
2	18501A0418	Srikanth Nagendra B	IELTS, GRE
3	18501A0423	Sri Lokesh C	GRE
4	18501A0424	Tejaswi C	GRE
5	18501A0459	Sasi Rekha Kolli	GATE
6	18501A0471	Maddali Sohit Venkata Sai	GATE
7	18501A0475	Vikas Mandada	IELTS
8	18501A0482	Jaya karthik N	IELTS
9	18501A0484	Parvatha Reddy Venkata Srinivas	GATE
10	18501A0491	RapalaJyothirmai	IELTS
11	18501A04B0	Tejaswini Uppalapati	GRE
12	18501A04B3	TusharV	GRE
13	18501A04B5	Siva Krishna V	IELTS
14	18501A04C0	Y.Yaswanth Reddy	IELTS
15	19505A0410	U. Naga satish	IELTS
16	19501A0443	K. Jaswanth	GATE
17	19501A04A1	Sai Venkata Rama LokeshkumarRanga	GATE
18	19501A04C8	Yogitha Arekatla	GATE

8. MOUs Signed

1. Memorandum of Understanding with Andhra Pradesh Power Generation Corporation limited training institute, Dr. NTPS, Ibrahimpatnam, Krishna District from 09.05.2022 to 08.05.2025.

9. Students Contribution

SCOPE OF SEMICONDUCTOR INDUSTRY IN INDIA

Semiconductor:

A Semiconductor is a substance that has specific electrical properties that enable it to serve as a basis for computers and different electronic devices. It has a chemical compound that conducts electricity under certain conditions.

A substance that can conduct electricity is known as a conductor and a substance that cannot conduct electricity is known as an insulator. Semiconductors have properties that act as both conductors and insulators.

Significance of Semiconductors:

In today's world every electronic device contains a semiconductor as a vital element. For instance, the most common devices include laptops, mobiles, smart watches, medical equipment, and many more. Using semiconductors in electronic devices will help the device to be faster, highly efficient, and cheaper.

Knock of Covid-19 on the Semiconductor Industry?

The 2020 pandemic has boosted the growth of the Indian semiconductor industry. The changing needs of customer habits have led to increased demand for electronics.

During the Covid-19 crisis, distance learning, entertainment, remote work, gaming, and internet shopping have surged. This is the main reason why the demand for semiconductors has outstripped production. When the pandemic began, the auto industry

suffered a major recession. However, demand for chips for laptops, smartphones, and tablets increased significantly in the same year.

Many semiconductor companies suffer from an imbalance between growth and product supply. The largest manufacturers have decided to expand their production capacity by installing new manufacturing facilities to meet the increasing demand.

As a result, the semiconductor industry will experience significant growth of 28-36% in 2021. Although the pandemic has reduced supply and demand for automakers, computers have proven to be game-changers for these chips.

Demand for new innovative next-generation products has also started. Various semiconductor companies have decided to invest in cutting-edge technologies to build their next-generation products. The industry's strategic and systematic approach has helped it emerge stronger from the Covid-19 crisis.

FUTURE OF SEMICONDUCTOR INDUSTRY IN INDIA

India aims to be a global hub for semiconductor manufacturing, design, and technology development. National semiconductor consumption will reach \$80 billion by 2026. Statistics also show that the market will grow by \$110 billion by the end of 2030.

Although India is taking steps to become a global leader in the semiconductor industry, several challenges are hindering its growth. Below is a list of the major challenges facing the Indian semiconductor industry.

- **High Investments:** Manufacturing semiconductors and displays require considerable investment. As a technology-intensive and complex sector, it is risky and requires capital investment. India needs to muster sufficient resources to cope with rapid technological progress.
- **Monetary Support from the Government:** The Indian Government should give priority to setting up the industries and increase the financial support in this sector.
- **Low Accessible of Fabrication Capacities:** India has been facing with lack of fabrication process recently. Although it has adequate chip design talent, there are no proper fabrication resources.

Organizations like ISRO and DRDO have their own fabrication process. However, they are out-dated. Hence, it is essential to overcome the low availability of fabrication capacity to remain ahead in the global industry of semiconductors.

- **Inefficient Resources:** Fabrication chips demands a lot of requirements such as a skilled workforce, large allotments of land, stable power supply, and water. It is challenging for India to gather all these resources and become a global producer.

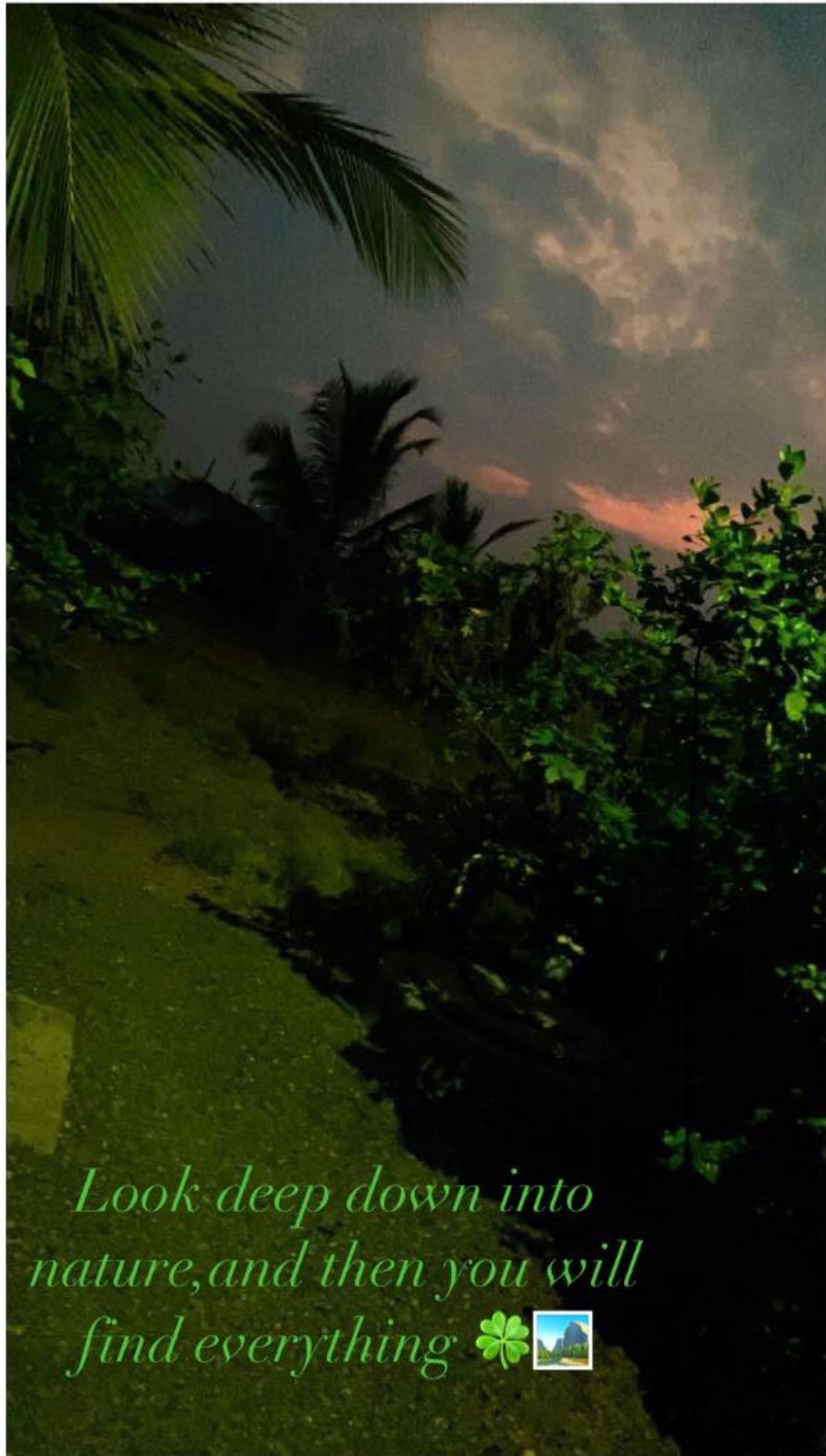
The View Point

There is no doubt that the demand for semiconductors will increase in the future. The global demand for semiconductors is increasing year by year, leading to a boom in the semiconductor industry in India. To meet the growing demands of the global world, India needs to adopt strong political mechanisms.

Therefore, India needs to overcome barriers and focus on becoming a leader in the semiconductor sector. The benefits of being a pioneer in the semiconductor industry are endless. India, therefore, needs to develop an effective strategy to help meet its global semiconductor supply needs.



19501A04B5
Taruni Madugula



*Look deep down into
nature, and then you will
find everything* 🍀 

D.Jahnavi
20501A0428



"Time wasted at lake is
the time well spent"...

K.Ravali Priya
20501A0449



MUSIC IS
NOT TO
HEAR,
IT IS TO
FEEL..

K.Veda Sri Varshini
20501A0445

Lucky



Best Friends
are hard to find

K.Veda Sri
Varshini
20501A0445



Because the very
best one is
already mine ♡♡♡

Lucky
😊

D.Jahnavi
20501A0428

"It's all so Magical."

