

# Newsletter

We Communicate Our Vision!

## SIGNALS



### HALF - YEARLY NEWS LETTER

**VOLUME: 24**

**JAN: 2024**

Newsletter

Electronics & Communication  
Engineering



**PRASAD V POTLURI  
SIDDHARTHA  
INSTITUTE OF TECHNOLOGY**

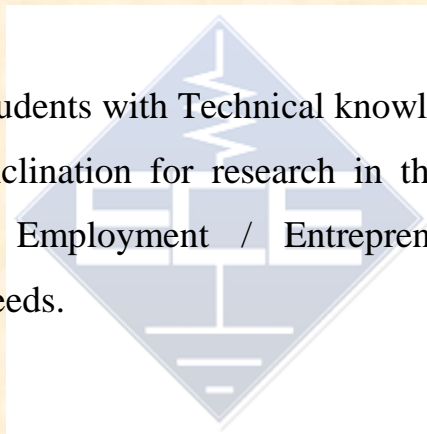
# **Prasad V. Potluri Siddhartha Institute of Technology**

## **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.





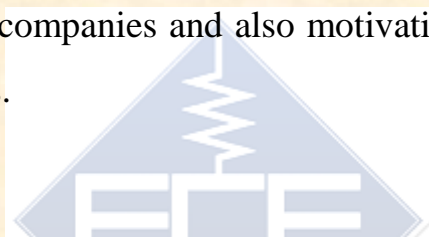
## Department of Electronics and Communication Engineering

### 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

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

## Program Objectives

<b>PO-1</b>	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
<b>PO-2</b>	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
<b>PO-3</b>	<b>Design/development of solutions:</b> 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.
<b>PO-4</b>	<b>Conduct investigations of complex problems:</b> 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.
<b>PO-5</b>	<b>Modern tool usage:</b> 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.
<b>PO-6</b>	<b>The engineer and society:</b> 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.
<b>PO-7</b>	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
<b>PO-8</b>	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and

	responsibilities and norms of the engineering practice.
<b>PO-9</b>	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>PO-10</b>	<b>Communication:</b> 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.
<b>PO-11</b>	<b>Project management and finance:</b> 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.
<b>PO-12</b>	<b>Life-long learning:</b> 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

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

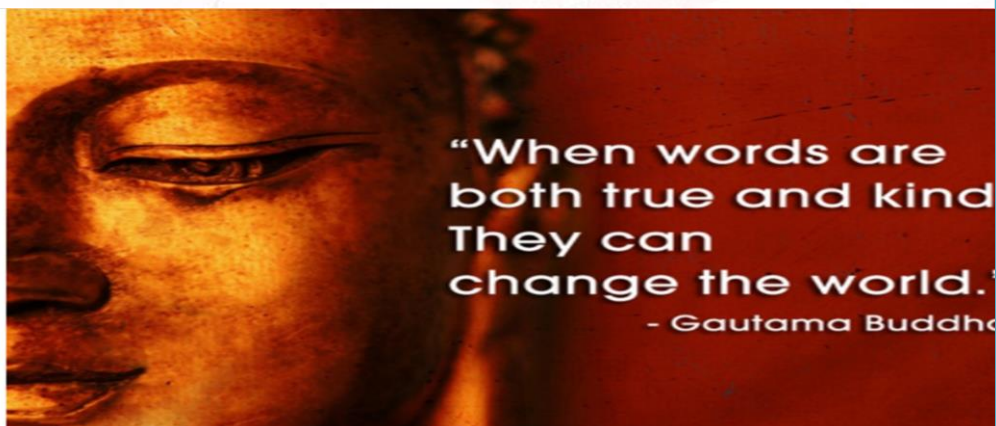


## EDITORIAL BOARD

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. Ms. K. Kavyasri  
(21501A0455), III B.Tech
7. Ms. P. Durga Anupama  
(21501A0499), III B.Tech
8. Ms. G.Srujana  
(22501A0441), II B.Tech
9. Mr. K.V.N.S.G. Sasank  
(22501A0469), 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
- ✓ Industrial Visits
- ✓ Students achievements
- ✓ Higher Education
- ✓ Students Contribution



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

The department of Electronics and Communications Engineering organized ---

- i. One day FDP on Practical Implementation of Artificial Intelligence & IOT in Engineering Solutions in association with Physitech on 25<sup>th</sup> January 2024.

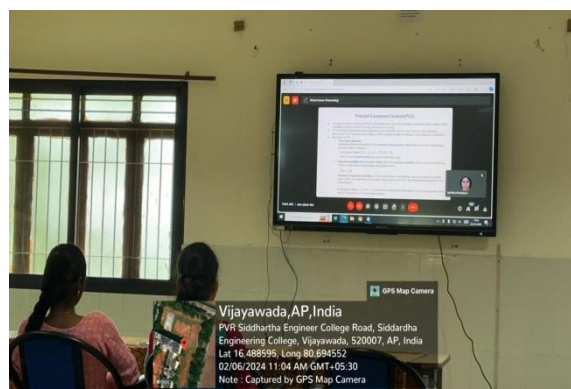
**Resource person:** Mr.Raman Teja Venigallam, Physitech Consultancy Services Pvt. Ltd., Hyderabad.



- ii. A Short term course on **5G and beyond** during 5<sup>th</sup> - 9<sup>th</sup> February 2024 in association with NITTTR chandigarh.

**Resource persons:**

Dr. Bhramjit Singh, NIT Kurukshetra  
Mr. Amruth Gudigar, Telcos, Bangalore  
Dr. Gaarima Saini, NITITR, Chandigarh  
Dr. Simranjit Singh, PEC, Chandigarh  
Mr. Tarikdeep SinghTech Mahindra, Cahndigarh  
Dr. Rittesh Kumar, CSIO, Chandigarh  
Dr. Poonam Syal NITTTR, Chandigarh  
Mr. Vipin Gupta U-NET solutions, Moga, Punjab



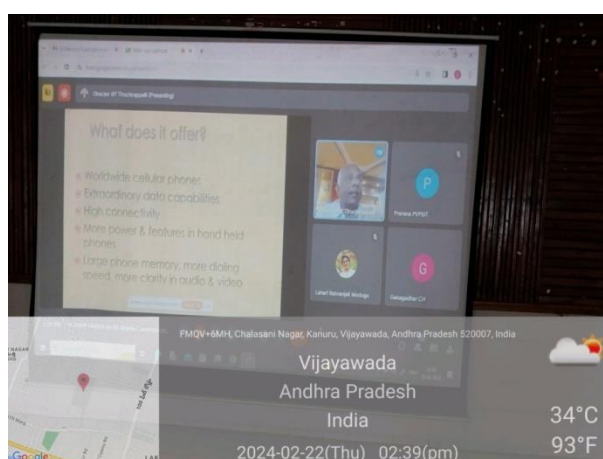
iii. An alumni guest lecture on **Cyber Security** on 14<sup>th</sup> February 2024.

**Resource person:** Atluri Venkata Anupama, Associate Partner, KPMG, Bangalore.  
(Alumni 1999-2003)



iv. A guest lecture on **5G mobile communications** on 22<sup>nd</sup> February 2024.

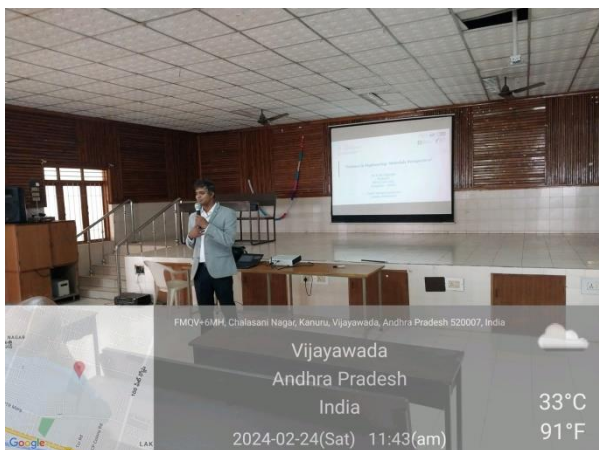
**Resource person:** Dr. Narasimha Sarma N V S, Director, IIIT Trichy.





- v. A guest lecture on **Science in Engineering - Materials perspective** on 24<sup>th</sup> February 2024.

**Resource person:** Dr. D.H. Nagaraju, Professor, Department of Chemistry,  
REVA University, Bangalore



- vi. A guest lecture on **Guidance for Higher Education in Abroad** on 19<sup>th</sup> March 2024.

**Resource person:** Akunuri Joseph Samuel, Director, A-One Overseas Consultancy,  
Vijayawada.



- vii. An alumni guest lecture on **Opportunities in Core Company** on 23<sup>rd</sup> March 2024.

**Resource person:** Boga Purnachandra Sekhar, Snalog and Mixed signal layout  
Design Engineer, Micron Technology, Hyderabad (Alumni 2013-2017).

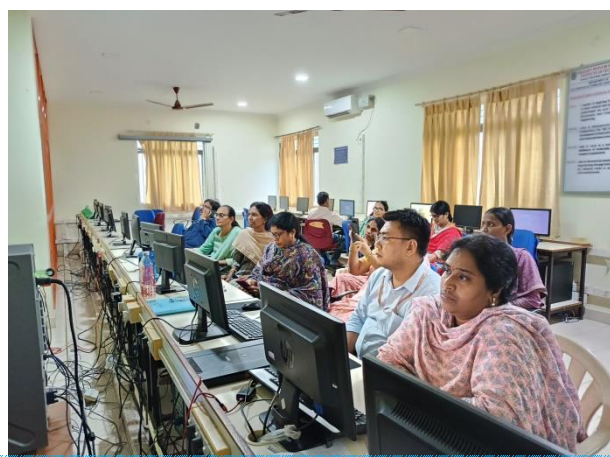


- vi. Project Poster Presentation was conducted for IV B.Tech ECE students on 30<sup>th</sup> March 2024.  
Judge: Dr.G. N.Swamy, HoD, Dept. of EIE, VRSEC.



- vii. A guest lecture on **VLSI Design Opportunities for Higher Education and Placements** on 12<sup>th</sup> April 2024.  
**Resource person:** P. Mani Kanta, Senior Engineer, Intel Corporation Ltd, Bangalore.
- viii. Two Day Workshop on **Antenna Design for Modern Wireless Applications** on 21<sup>st</sup> & 22<sup>nd</sup> May 2024.

**Resource person:** Mr. Dhanush G, Senior Application Engineer,  
Entuple Technologies, Bangalore.



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

### International Conferences:

- i. Dr. P. Venumadhav presented a paper **Reconfigurable Octagon Split Ring Resonator Microstrip Patch Antenna** - International Conference on Innovative Engineering Technologies (ICIET-24), Page No: 50-55, organized by National Institute for Engineering and Research, Coimbatore on 2<sup>nd</sup> March 2024
- ii. Dr. Ch. Gangadhar presented a paper **Analysis of ECG signal and Non-Invasive Blood Glucose Monitoring using Neural Networks** - 4<sup>th</sup> International Conference on Pervasive Computing and Social Networking (ICPCSN-2024) organized by R P Sarathy Institute of Technology, Salem on 3<sup>rd</sup> – 5<sup>th</sup> May 2024.
- iii. Dr. Ch. Gangadhar presented a paper **Voltage Controlled Oscillator for Bluetooth and Wi-Fi Applications with 22nm Technology** – The 15<sup>th</sup> International IEEE conference on Computing, Communication and Networking Technologies; organized by IIT-Mandi, in association with IEEE Electronics Packaging Society, during 24<sup>th</sup> - 28<sup>th</sup> June 2024.

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

### a) Seminars/Webinars:

- i. Dr. Ch. Gangadhar attended a seminar on **Internet of bodies for seamless human machine co-operation and real time AI** organized by IEEE-IISC VLSI Chapter Bangalore on 15<sup>th</sup> January 2024.
- ii. Dr.Haji Habibulla MD, attended a webinar on **Future of Intelligent Connectivity with 5G/6G using Ansys** conducted by ARK Info solution Pvt. Ltd. on 17<sup>th</sup> & 18<sup>th</sup> January 2024.



- iii. Dr. V. S.D.Rekha and Mrs D.Swathi, attended a webinar on **MIPI Camera using zinq FPGA webinar** conducted by SION Versity on 24<sup>th</sup> January 2024.
- iv. Dr. Ch. Gangadhar attended a webinar on **a ANSYS HFSS sbr+ antenna placement** conducted by ARK solutions on 15<sup>th</sup> February 2024.
- v. Mrs.D.Swathi attended a webinar on **Process of innovative development, technology readiness level** conducted by Radhadevi Goenka College for women, Akola on 15<sup>th</sup> February 2024.
- vi. Dr. B. Surya Prasada Rao attended a webinar on **Paradigms of 6G RAN: Next-generation multiple access schemes and Meta-Surfaces aided wireless communication** conducted by Vignans Foundation for Sciences and Research, on 23<sup>rd</sup> February 2024.
- vii. Mrs. D. Swathi attended a webinar on **Technology: Physical Design and verification strategies** conducted by Corel Technologies on 13<sup>th</sup> March 2024.
- viii. Mrs. D. Swathi attended a webinar on **WiFi Light Technology Usability and utility of printed intelligence as a national initiative** conducted by MNNIT Allahabad on 15<sup>th</sup> April 2024.
- ix. Mrs. D. Swathi attended a webinar on **mm-wave system and circuit design for highly integrated radar transceivers** conducted by MNNIT Allahabad on 20<sup>th</sup> April 2024.
- x. Dr.Haji Habibulla MD, attended a webinar on **ANSYS HFSS Antenna MIMO Design** conducted by ARK Info solution Pvt. Ltd. on 25<sup>th</sup> May 2024.
- xi. Dr.Haji Habibulla MD, attended a webinar on **A 5G/6G The Future of Intelligent Connectivity using Ansys.** on 24<sup>th</sup> May 2024.

## b) Workshops:

- i. Mrs.K. Anitha, Dr. B. Samuyelu, Mrs.V.Ratna Kumari, Mrs D.Hareesha, Ms T. Sushma, Dr. V. S.D.Rekha, Mrs. D. Praveena Bai, Mrs. Sri Lakshmi, Mrs.T. Maha Lakshmi attended a workshop on **The Digital Leap in Learning: GENAI Tools for Academic Empowerment** conducted by Research & Development Cell, PVPSIT on 2<sup>nd</sup> march 2024.
- ii. Dr. B. Samuyelu, Mrs. L. Madhavi Devi, Dr P Venu Madhav attended a workshop on **Advanced Antennas for space Vehicular and Ground Applications** conducted by University College of Engineering, Osmania University during 7<sup>th</sup> - 9<sup>th</sup> March 2024.
- iii. Mrs. L. Madhavi Devi, Mrs. B. Swathi Lakshmi, Dr P Venu Madhav attended a workshop on **Recent Advances in Fundamentals Analysis Design Fabrication & test of advanced Antennas for Space Air & Ground applications for Space** conducted by Vignans Foundation for Sciences and Research on 5<sup>th</sup> March 2024.



## c) STTP/STCs:

- i. Mrs. L. Madhavi Devi, Mrs. B. Swathi Lakshmi attended STTP on **5G/6G Wireless Technologies** conducted by NIT Kurukshetra, Haryana, India during 17<sup>th</sup> – 21<sup>st</sup> April 2024.
- ii. Dr. T. Haritha, Mrs D.Swathi attended **Empowering Educators-Advancements in Computing Pedagogy** conducted by Vishwakarma Institute of Technology, Pune during 12<sup>th</sup> – 17<sup>th</sup> February 2024.

## d) Faculty Development Programmes:

- i. Dr. Ch. Gangadhar attended a FDP on **Practical implementation of artificial intelligence & IOT in engineering solutions** conducted by PVPSIT on 25<sup>th</sup> January 2024.

- ii. Dr. T. Haritha, Dr. A.Geetha Devi, Mrs. L. Madhavi Devi, Mrs. D. Hareesha, attended a FDP on **AI/ML and Data Science for Industry 4.0** (Intermediate Level) conducted by Vijaya Institute of Technology For Women during 29<sup>th</sup> January - 2<sup>nd</sup> February 2024.
- iii. Dr. K. Ramanjaneyulu, Dr T Haritha, Dr J Ravindra Babu, Mrs.K. Anitha, Mrs. K. Aruna Kumari, Mr. T. Balaji, Dr. B. Samuyelu, Ms T. Sushma, Mrs. D. Hareesha, Mrs D.Swathi, Mr. K.Phani Rama Krishna, Dr P Venu Madhav, Mr A Ashok Babu attended a FDP on **5G and Beyond** by NITTTR, Chandigarh at PVPSIT during 5<sup>th</sup> – 9<sup>th</sup> February 2024.
- iv. Dr. T Haritha, Mrs. K. Aruna Kumari, Dr. B. Surya Prasada Rao, Dr. B. samuyelu, Mrs. D.Praveena Bai, Mrs. Ch.Sri Lakshmi, Mrs. T. Maha Lakshmi, Dr. V. S.D.Rekha, Mrs D Swathi attended FDP on **Quality Research Paper and Funding Project Proposal Writing** conducted by PVPSIT at SAGTE during 11<sup>th</sup> – 15<sup>th</sup> March 2024.
- v. Mrs. K. Aruna Kumari attended a FDP on **Emerging Trends and Challenges in Communication and Computational Technologies (5G/6G)** conducted by VNRVJIET in association with IEEE Communication Society and MTT-Society during 18<sup>th</sup> – 22<sup>nd</sup> March 2024.
- vi. Dr. T Haritha, Mrs. D.Praveena Bai attended FDP on **INDUSTRY 4.0/5.0** conducted by PVPSIT during 15<sup>th</sup> – 24<sup>th</sup> April 2024.
- vii. Mrs D. Swathi attended FDP on **Impact of AI** conducted by VVIT Guntur during 22<sup>nd</sup> – 27<sup>th</sup> April 2024.
- viii. Dr. K. Ramanjaneyulu attended FDP on **Technologies for Sustainable Rural Development** conducted by NITTTR, Chandigarh during 6<sup>th</sup> – 10<sup>th</sup> May 2024.
- ix. Dr. K. Ramanjaneyulu, Dr. J. Ravindra Babu, Mrs.K. Anitha, Dr.Haji Habibulla MD, Mr. K.Phani Rama Krishna attended FDP **Unlocking Innovation: Exploring**



**Intellectual Property Rights** jointly conducted by PVPSIT and PBSA&SC during 6<sup>th</sup> – 10<sup>th</sup> May 2024.

- x. Dr.Haji Habibulla MD, attended an 1 week FDP on **Unlocking Innovation: Exploring Intellectual Property Rights** conducted by PB Siddhartha & PVP Siddhartha during 16<sup>th</sup> - 21<sup>st</sup> May 2024.

**e. Guest lectures:**

- i. Dr. B. Surya Prasada Rao attended a guest lecture on **Empowering Connectivity: Wearable Antennas for Wi-Fi and 5G Applications** organized by IEEE Student Branch MNNIT Allahabad on 29<sup>th</sup> April 2024.

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

**a) Scopus indexed journals:**

- i. **Dr. Ch Gangadhar** published a research paper entitled **Performance signature of transceiverdetection of harvesting stage in cotton fields using deep adversarial networks** - Soft Computing, Vol:28, Issue:01, PP: 1819-1831, ISSN: 1433-7479, January – 2024.
- ii. **Ms. B.V.Subbayamma**, published a research paper entitled **Deep Learning Based Brain Tumor Analysis with Manual Layer Selection** - International Journal of Intelligent Systems and Applications in Engineering, Vol:12, Issue:07, PP:20-25, ISSN: 2147-6799, January – 2024.
- iii. **Dr. J. Ravindra Babu** published a research paper entitled **Analysis of Multiuser Detectors and Performance improvement in DSCDMA system using Multistage Multiuser Detection Techniques** - Wseas Transactions On Electronics, Vol:15, Issue:01 PP:1-10, ISSN: 2415-1513, January – 2024.

- iv. **Mrs. L. Madhavi Devi** published a research paper entitled **Exterior Wound Detection and Classification Using Features Based Deep CNN** - Journal of Theoretical and App, Vol:102, Issue:04 PP:1-10, ISSN: 1992-8645, February – 2024.
- v. **Dr. Surya Prasada Rao Borra** published a research paper entitled **Novel Design of Volumetric Antenna for Wideband Applications** - Journal of Theoretical and Applied Information Technology, Vol:102, Issue:03 PP: 1250-1259, ISSN: 1992-8645, February – 2024.
- vi. **Dr. Surya Prasada Rao Borra** published a research paper entitled **Skin Abrasions Identification with Visual Geometry Group CNN** - Journal of Theoretical and Applied Information Technology, Vol:102, Issue:04 PP: 1412-1418, ISSN: 1992-8645, February – 2024.
- vii. **Mrs. Mannava Srinivasa Rao** published a research paper entitled **A Flexible ECE-Shaped High Gain Antenna Array for Wearable Applications** - ARPN Journal of Engineering and Applied Sciences, Vol:19, Issue:04 PP: 203-209, ISSN: 1819-6608, February – 2024.
- viii. **Mrs. Kukati Aruna Kumari** published a research paper entitled **Neural Network Pruning Techniques for Efficient Model Compression** - Intelligent Systems and Applications in Engineering, Vol:12, Issue:15S PP: 565-575, ISSN: 2147-67992, February – 2024.
- ix. **Dr. P. Venumadhav** published a research paper entitled **Stream of Traffic Sign Recognition by Means of Auto Encoder Classification Models** - Journal of Theoretical and Applied Information Technology, Vol:102, Issue:05 PP: 1843-1848, ISSN: 1992-8645, March – 2024.
- x. **Dr. Surya Prasada Rao Borra** published a research paper entitled **Chronic hepatitis-C detection interpretation using machine learning algorithm and with clinical findings** - Journal of Theoretical and Applied Information Technology, Vol:102, Issue:5 PP: 2050-2058, ISSN: 1992-8645, March – 2024.

- xi. **Mrs. Swathi Dasi** published a research paper entitled **IoT-Based Smart Energy Management System to Meet the Requirements of EV Charging Stations** - Journal of optical communications, Vol:45, Issue:02 PP: 165-176, ISSN 2191-6322, April – 2024.
- xii. **Dr. Thotakura Haritha** published a research paper entitled **Efficient employment of VCSEL light sources in high speed dispersion compensation system** - Journal of Optical Communications, Vol:45, Issue:02 PP: 285-293, ISSN: 2191-6322, April – 2024.
- xiii. **Mrs.Swathi Dasi** published a research paper entitled **Efficient employment of VCSEL light sources in high speed dispersion compensation system** - Journal of Optical Communications; Vol:45, Issue:2, PP: 165-176, ISSN: 2191-6322, April – 2024.
- xiv. **Dr. Vemuri Ratna Kumari** published a research paper entitled **Intelligent of things multiagent systems for smart home energy monitoring** - Indonesian Journal of Electrical Engineering and Computer science, Vol:34, Issue:03 PP: 1858-1867, ISSN 2502-4752, June – 2024.
- xv. **Ms.Thotakura Sushma** published a research paper entitled **Design of Ultra-Wideband Antenna with Quadruple Band Notch Reconfigurability** - Progress In Electromagnetics Research C, Vol:144, Issue: PP: 23-31, ISSN: 1937-8718, June – 2024.

**b) SCI/SCIE/ESCI indexed journals:**

- i. **Mrs. B.V.Subbayamma** published a Research Paper **Multi-image fusion: optimal decomposition strategy with heuristic-assisted non-subsampled shearlet transform for multimodal image fusion** - Signal, Image and Video Processing Vol:18, Issue:03, PP: 2297–2307, ISSN: 1863-1703, February – 2024.
- ii. **Mrs. Komma Anitha** published a research paper entitled **ResNet101-SVM: Hybrid convolutional neural network for citrus fruits classification** - Journal of Intelligent & Fuzzy Systems, Vol:46, Issue:03, PP: 7035-7045, ISSN: 1064-1246, March – 2024.



- iii. **Mr.Mannava Srinivasa Rao** published a research paper entitled **Bi-layer deep feature fusion based mineral classification using hand-specimen images** - Journal of Intelligent & Fuzzy Systems, Vol:46, Issue:03, PP: 6969-6976, ISSN: 1064-1246, March – 2024.
- iv. **Dr. C.Subba Rao** published a research paper entitled **Crowd movement monitoring in academic buildings: a reinforcement learning approach** - Multimedia Tools and Applications; ISSN: 1380-7501, (Online) April – 2024.
- v. **Dr. Thotakura Haritha** published a research paper entitled **Design and development of square stub loaded band pass filter with quality factor analysis** - Journal of Instrumentation, Vol:19, Issue:05, PP: P05019 ISSN: 1748-0221, May – 2024.
- vi. **Dr. C.Subba Rao** published a research paper entitled **Enhancing remote target classification in hyperspectral imaging using graph attention neural network** - Journal of Earth System Science; Vol:133, Issue:2, PP: Article:89; ISSN: 2347-4327, June – 2024.
- vii. **Dr. B. Samuyelu** published a research paper entitled **The Effect of a Dual Oxide - Dual Gate Material and a Sensitivity Analysis on the Performance of a Junctionless Tunnel FET – Silicon**; Vol:16, Issue:9, PP: 3905-3915; ISSN: 1876-990X, June – 2024.

**c) UGC/ Other journals:**

- i. **Dr. Ch Gangadhar** published a research paper entitled **Machine learning and IoT Based Robotic Solution for Home Wrist Rehabilitation through Motion Capture Enabled Architecture** - Journal of Electrical Systems, Vol:20, Issue:2, PP:876, ISSN: 11125209, April – 2024
- ii. **Dr. Ch Gangadhar, Habibulla Mohammad, Mr.K. Phani Rama Krishna** published a research paper entitled **Distributed Ledger Technology on Enhanced Pegasis Algorithm for Mobility Management in WSN** - Journal of Theoretical and Applied Information Technology, Vol:102, Issue:10 PP:4339, ISSN: 1992-8645, May – 2024

## 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.L Madhavi Devi, Mrs.B Swathi Lakshmi, Dr.Habibulla Mohammad, Mrs.B V Subbayamma filed and was granted a patent - **Automatic Wireless Parking Identification and Warning System** with the application no: 543000 on 26-06-2024 (**Granting Organization:** The patent office, Government of India).

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

- i. **Mrs V.Ratna Kumari** awarded Doctor of Philosophy (Ph.D.) in January 2024 from JNTUK, Kakinada and her research topic is **Design and Implementation of ear detection and recognition algorithms for occluded and noisy environment**.

### c. Reviewers of journals:

- i. Mrs L. Madhavi Devi acted as **reviewer** for 2024 International Conference on Social and Sustainable Innovations in Technology and Engineering SASI-ITE'24 organized by SASI Institute of Technology, Tadepalligudem from 23<sup>rd</sup> – 25<sup>th</sup> February 2024.
- ii. Dr. Haji Habibulla MD acted as **reviewer** for “The 3<sup>rd</sup> International Conference on Optoelectronic Information and Computer Engineering (OICE2024) (Scopus Indexed) organized by Association for Science and Engineering in (Yichang), China from 25<sup>th</sup> -27<sup>th</sup> May 2024.
- iii. Dr. Haji Habibulla MD acted as **reviewer** for the article NJTD-2298 of the journal “Nigerian Journal of Technological Development” (Scopus Indexed) in Feb'2024.

### d. MOOCs/COURESERA courses completed by the faculty:

**NPTEL online certification courses** conducted by various IIT's from Jan-April 2024. Exam conducted in the month of April 2024. Following are the details.

S. N	Name of The Faculty	Name of The Course Registered	Score	Certificate Type
1	Dr A Geetha Devi	Problem Solving Through Programming in C	62	Elite
		Art of C Programming	83	---
2	Mr.K.P. Rama Krishna	Microprocessors and Interfacing	71	Elite
3	Dr.V.S.D.Rekha	Problem Solving Through Programming in C	Mentor for 29 students	Mentor certificate
4	Mrs.D.Swathi	Problem Solving Through Programming in C	76	Elite
		Art of C Programming	88	---

## 6. Industrial Visits

- II B.Tech. Students (50 members) visited Efftronics Pvt. Ltd. Mangalagiri on 1<sup>st</sup> March 2024.
- III B.Tech. Students (73 members) visited HAL facilities center, VTM, Ooty Tea Factory, Deepanjan Cables, Mysore during 1<sup>st</sup> – 7<sup>th</sup> March 2024.
- II B.Tech. Students (144 members) visited INCAP Pvt. Ltd., Nidamanuru on 11<sup>th</sup> March 2024.



## 7. Students' achievements:

### a) Co-curricular Activities:

#### Internships:

IV B. Tech II Sem Internships up to April 2024

S. No	Name of the company offered internship	No. of Students attended
1	Brainovision Solutions Pvt. Ltd.,	138
2	Skilldizire Technologies Private Limited	1
<b>Total</b>		<b>139</b>



S.No	Reg No	Name of the Student	Internship Company Name	Course Name	Duration
1	20501A0401	Abdul Ayesha	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
2	20501A0402	Abhinaya Deepa Jerripothula	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
3	20501A0403	Addepalli Bharat	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
4	20501A0404	Agolu Venkata Sai Kiran	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
5	20501A0405	Alaparathi Akash	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
6	20501A0406	Alapati Naga Venkata Sai Akshaya	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
7	20501A0407	Aluri Dinesh	Brain O Vision	AWS	19.12.2023 To 30.03.32024
8	20501A0408	Angalakuditi Hima Surya Teja	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
9	20501A0409	Avutapalli D S S L Tejaswini	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
10	20501A0410	Banavathu Kishore	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
11	20501A0411	Banda Navyasri	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
12	20501A0412	Battina Puja Madhuri	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
13	20501A0413	Battina Ram Mohan	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
14	20501A0414	Bavisetti Siva Naga Sai	Brain O Vision	Prompt Engineering And Emerging Technologies	19.12.2023 To 30.03.32024
15	20501A0415	Bhimavarapu.S.V.Harshith Reddy	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
16	20501A0416	Buradagunta Chandu	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
17	20501A0417	Sai Sarath Chandra Chaganti	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
18	20501A0418	Challari Teja Sri	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
19	20501A0419	Chennuru Sai Sobhan	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
20	20501A0420	Chevuri Dhurva Chandra	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024

21	20501A0421	Chopparapu Gagan Nag	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
22	20501A0422	Darajula Sai Revanth	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
23	20501A0423	Dasari Dwijit	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
24	20501A0424	Dasi Devika	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
25	20501A0425	Divi Bhargavi	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
26	20501A0426	Dokka Indu Priya	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
27	20501A0427	Dondapati Tanmai	Brain O Vision	Prompt Engineering And Emerging Technologies	19.12.2023 To 30.03.2024
28	20501A0428	Donepudi Jahnavi	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
29	20501A0429	Gandikota Tejeswararao	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
30	20501A0430	Goli Revanth	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
31	20501A0431	Golla Kamaraju	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
32	20501A0432	Gottapu Chakradhara Naidu	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
33	20501A0433	Gudavalli Amala Rama Konda	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
34	20501A0434	Gunuru Bhaskar	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
35	20501A0435	Jai Aashish Sammeta	Brain O Vision	Java Full Stack	19.12.2023 To 30.03.2024
36	20501A0436	Jayana Thanmaya Ramya Krishna	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
37	20501A0437	Kadiyala Navatej	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
38	20501A0438	Kagita Deepti Sri	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
39	20501A0439	Kaligithi Dharani Supraja	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
40	20501A0440	Kancharla Ramya	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
41	20501A0441	Kandukuri Gagan Sai Kowshik	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
42	20501A0442	Karlapalepu Hemasri	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
43	20501A0443	Karnati Revanth	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024

44	20501A0444	Kolli Anvitha	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
45	20501A0445	Kollipara Veda Sri Varshini	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
46	20501A0446	Kolluru Harshitha	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
47	20501A0447	Konda Kundana	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
48	20501A0448	Korivi Divya Naga Durga	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
49	20501A0449	Kosuri Ravali Priya	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
50	20501A0450	Kotum Abhishek	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
51	20501A0451	Kukkamalla Reshma Pavani	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
52	20501A0452	Kukkamalla Sanajana	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
53	20501A0453	Lalitha Vangavolu	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
54	20501A0454	Lanke Harshitha	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
55	20501A0455	Maddipatla Jayatha	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
56	20501A0456	Madu Kesav	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
57	20501A0457	Majji Gokul Sai	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
58	20501A0458	Mallampally Manvitha Naga Siri	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
59	20501A0459	Mamidi Isaac Sihas	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
60	20501A0460	Mandavilli Sai Subhash	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
61	20501A0461	Maradani Umasri	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
62	20501A0462	Matti Gagana Sindhu	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
63	20501A0463	Meda Tanmayi	Brain O Vision	AWS	19.12.2023 To 30.03.2024
64	20501A0464	Mendu Vinay	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
65	20501A0465	Mohammad Jabeer Shareef	Brain O Vision	AWS	19.12.2023 To 30.03.2024
66	20501A0467	Mudavathu Tejaswini	Brain O Vision	AWS	19.12.2023 To 30.03.2024
67	20501A0468	Murari Sai Kiran	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
68	20501A0469	Naga Sreeja Ayyadevara	Brain O Vision	AWS	19.12.2023 To 30.03.2024
69	20501A0470	Nagabathula Lakshmi Gayathri	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024



<b>70</b>	20501A0471	Nalamala Sai Jyothi	Brain O Vision	AWS	19.12.2023 To 30.03.2024
<b>71</b>	20501A0472	Nallajarla Dana Durga Venkata Krishna Vamsi	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
<b>72</b>	20501A0473	Pabolu Venkat Dinesh	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
<b>73</b>	20501A0474	Palaparthi Anil	Brain O Vision	AWS	19.12.2023 To 30.03.2024
<b>74</b>	20501A0475	Pallagani Dinesh Babu	Brain O Vision	Java Full Stack	19.12.2023 To 30.03.2024
<b>75</b>	20501A0476	Pamula Vamsi Sridevi	Brain O Vision	AWS	19.12.2023 To 30.03.2024
<b>76</b>	20501A0477	Panuganti Ravi Kishor Reddy	Brain O Vision	AWS	19.12.2023 To 30.03.2024
<b>77</b>	20501A0478	Pavuluri Sai Goutham	Brain O Vision	AWS	19.12.2023 To 30.03.2024
<b>78</b>	20501A0479	Peddibhotla Satya Kowmudi	Brain O Vision	AWS	19.12.2023 To 30.03.2024
<b>79</b>	20501A0480	Penumudi Kousalya	Brain O Vision	AWS	19.12.2023 To 30.03.2024
<b>80</b>	20501A0481	Peta Asha	Brain O Vision	AWS	19.12.2023 To 30.03.2024
<b>81</b>	20501A0482	Podili Sri Maheswari	Brain O Vision	AWS	19.12.2023 To 30.03.2024
<b>82</b>	20501A0483	Potluri Siva Ram	Brain O Vision	AWS	19.12.2023 To 30.03.2024
<b>83</b>	20501A0484	Pranavi Sri Narapareddy	Brain O Vision	AWS	19.12.2023 To 30.03.2024
<b>84</b>	20501A0485	Prathipati Raju	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
<b>85</b>	20501A0486	Putcha Venkata Naga Siva Gowtham	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
<b>86</b>	20501A0487	Puvvada Swathi Naga Manikanta Manasa	Brain O Vision	AWS	19.12.2023 To 30.03.2024
<b>87</b>	20501A0488	Rabia Kousar	Brain O Vision	AWS	19.12.2023 To 30.03.2024
<b>88</b>	20501A0489	Rajesh Puligeti	Brain O Vision	AWS	19.12.2023 To 30.03.2024
<b>89</b>	20501A0490	Rajulapati Pradeep	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
<b>90</b>	20501A0491	Ramiseti Venkata Naga Sai	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
<b>91</b>	20501A0492	Ravada Anil Kumar	Brain O Vision	Java Full Stack	19.12.2023 To 30.03.2024
<b>92</b>	20501A0493	Ravuri Anil Kumar	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.2024
<b>93</b>	20501A0494	Reddy Shanmukha Vardhan	Brain O Vision	AWS	19.12.2023 To 30.03.2024
<b>94</b>	20501A0495	Rompelli Santosh Kumar	Brain O Vision	AWS	19.12.2023 To 30.03.2024

95	20501A0496	Rugvedam Padma Sri	Brain O Vision	AWS	19.12.2023 To 30.03.32024
96	20501A0497	Sai Likhith Nuvvala	Brain O Vision	AWS	19.12.2023 To 30.03.32024
97	20501A0498	Saripalli Pujitha Bhavani	Brain O Vision	AWS	19.12.2023 To 30.03.32024
98	20501A0499	Savaram Satish	Brain O Vision	AWS	19.12.2023 To 30.03.32024
99	20501A04A0	Sayana Mahesh Sai	Skilldzure	VLSI	06.01.2024 To 07.04.2024
100	20501A04A1	Shaik Arshiya	Brain O Vision	AWS	19.12.2023 To 30.03.32024
101	20501A04A2	Shaik Firoj	Brain O Vision	AWS	19.12.2023 To 30.03.32024
102	20501A04A3	Sonti Sweekar	Brain O Vision	AWS	19.12.2023 To 30.03.32024
103	20501A04A4	Sai Krishna Suravarapu	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
104	20501A04A5	Tekimudi Sai Venkat	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
105	20501A04A6	Tharugu Meghana	Brain O Vision	AWS	19.12.2023 To 30.03.32024
106	20501A04A7	Thatithuri Lalitha	Brain O Vision	Java Full Stack	19.12.2023 To 30.03.32024
107	20501A04A8	Thollikonda Esther Rani	Brain O Vision	Java Full Stack	19.12.2023 To 30.03.32024
108	20501A04A9	Thotapalli Mohana Iswarya	Brain O Vision	AWS	19.12.2023 To 30.03.32024
109	20501A04B0	Unguturi Niharika	Brain O Vision	Java Full Stack	19.12.2023 To 30.03.32024
110	20501A04B1	Uppala Sai Gowtham	Brain O Vision	AWS	19.12.2023 To 30.03.32024
111	20501A04B2	Utlapalli Meghana	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
112	20501A04B3	V.V Satya Bharathi	Brain O Vision	AWS	19.12.2023 To 30.03.32024
113	20501A04B4	Vadlamudi Sangeetha	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
114	20501A04B5	Valadasu Pallavi	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
115	20501A04B6	Gogineni Vamsi Sai Krishna	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
116	20501A04B7	Vanga Ganesh Sai Kartheek	Brain O Vision	AWS	19.12.2023 To 30.03.32024
117	20501A04B8	Vanjarapu Kousic Naren Sai	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
118	20501A04B9	Varadapureddi Venkata Rao	Brain O Vision	AWS	19.12.2023 To 30.03.32024
119	20501A04C0	Vatturi Prasanna Ganesh	Brain O Vision	AWS	19.12.2023 To 30.03.32024
120	20501A04C1	Velamala V S S Lakshmi Narasimha	Brain O Vision	AWS	19.12.2023 To 30.03.32024
121	20501A04C2	Vellanki Swathi Sree	Brain O Vision	AWS	19.12.2023 To 30.03.32024

<b>122</b>	20501A04C3	Vemu S V S S Anandamai	Brain O Vision	AWS	19.12.2023 To 30.03.32024
<b>123</b>	20501A04C4	Venkata Sai Cherukuru	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
<b>124</b>	20501A04C5	Vucha Ushaswini	Brain O Vision	AWS	19.12.2023 To 30.03.32024
<b>125</b>	20501A04C6	Yadavalli Omkar	Brain O Vision	AWS	19.12.2023 To 30.03.32024
<b>126</b>	20501A04C7	Yarlagadda Sai Pranathi	Brain O Vision	AWS	19.12.2023 To 30.03.32024
<b>127</b>	21505A0401	Ambadipudi Sri Khyathi	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
<b>128</b>	21505A0402	Appikonda Prabhu Shankar	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
<b>129</b>	21505A0403	Chinthalacheruvu Nandini	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
<b>130</b>	21505A0404	Devireddy Giri	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
<b>131</b>	21505A0405	Juttiga Sasidhar	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
<b>132</b>	21505A0406	Kampasati Maneesha	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
<b>133</b>	21505A0407	Kotta Naga Sai	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
<b>134</b>	21505A0408	Manikonda Trivarnika	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
<b>135</b>	21505A0409	Mohammed Naseer Baig	Brain O Vision	AWS	19.12.2023 To 30.03.32024
<b>136</b>	21505A0410	Mohammed Shahid Afridhi	Brain O Vision	AWS	19.12.2023 To 30.03.32024
<b>137</b>	21505A0411	Shaik Hussainbee	Brain O Vision	AWS	19.12.2023 To 30.03.32024
<b>138</b>	21505A0412	Sunkara Nagadevi	Brain O Vision	Python Full Stack	19.12.2023 To 30.03.32024
<b>139</b>	21505A0413	Vadaparthi Sravani	Brain O Vision	AWS	19.12.202330.03.32024

## **b. Student Paper Publications and Presentations:**

- i. P.S.N.M.Manasa, Md.Jabeer Shareef, N.Sai Likhith, V.Swathi Sree published a paper entitled **Comprehensive Liver Tumour Detection And Stages Classification Using Deep Learning** - Journal of Aeronautical Materials, ISSN: 1005-5053; Vol:44; Issue:1;PP No: 81-89; March 2024. (Scopus)
- ii. Rabia Kousar, V. Pallavi, V. Venkata Rao, Ch. Venkata Sai published a paper entitled **Osteosarcoma Bone Cancer Detection Using Convolutional Neural Networks and Supervised Deep-Learning Methods** - Journal of Aeronautical Materials, ISSN: 1005-5053; Vol:44; Issue:1; PP No: 72-80; March 2024.
- iii. Mohammed Naseer Baig, Vanga Ganesh, Sai Kartheek, Peddobotla Satya Kowmudi, Rajula Pati Pradeep presented a paper on **Power v-Optimized Approximate Multiplier with Tunable Accuracy** - ICIET-24, organized by National Institute for Engineering and Research, Coimbatore, India on 2<sup>nd</sup> March 2024.
- iv. D.Sai Revanth, B.Puja Madhuri presented a paper on **Secure Touch:Iot-Enabled Finger-Touch Authentication For Seamless Mobile Security** - 4<sup>th</sup> International Conference on Nano Electronics ,Machine Learning ,Internet of Things &Computing Systems(NMIC-2024), organized by Advanced Regional Telecom Training Center, Ranch, Jharkhand, India during 13<sup>th</sup> – 14<sup>th</sup> April 2024.
- v. Nagabathula Lakshmi Gayathri,Peta Asha,Vadlamudi Sangeetha,Pabolu Venkata Dinesh, presented a paper on **Development of Skin Lesion Classification System Based on Watershed Algorithm and Custo CNN** - 4<sup>th</sup> International Conference on Nano Electronics, Machine Learning, Internet of Things & Computing Systems(NMIC-2024), organized by Advanced Regional Telecom Training Center, Ranch, Jharkhand, India during 13<sup>th</sup> – 14<sup>th</sup> April 2024.
- vi. Mallampally Manvitha Naga Sri presented a paper on **Co-Circular Design of Dual –Band Micro Strip Patch Antenna for 5G Mobile Terminals** - 4<sup>th</sup> International Conference on Nano Electronics, Machine Learning, Internet of Things &Computing Systems(NMIC-2024), organized by Advanced Regional Telecom Training Center, Ranch, Jharkhand, India during 13<sup>th</sup> – 14<sup>th</sup> April 2024.



- vii. Shaik Hussainbee, Velamala Lakhmi Narasimha, Vadlamani Sarya Bharathi, Shaik Firoj presented a paper on **Enhanced Retinal Image Analysis for Diabetic retinopathy detection Using Efficientnetb3** - 12<sup>th</sup> International Conference On Recent Challenges in Engineering and Technology(ICRCET-2024) organized by Institute for Educational Research And Publication (IFERP), Bengaluru, India during 23<sup>rd</sup> – 24<sup>th</sup> April 2024.

**c. Certification Courses:**

- i. **NPTEL online certification courses** conducted by various IIT's during the period June-Dec 2023 and Jan-April 2024. Following are the details of various courses done by students under the A.Y:2023-24.

S. No	Name of the Course	No. of Students
1	Introduction To Industry 4.0 And Industrial Internet Of Things	1
2	Evolution of Air Interface towards 5G	16
3	Problem Solving Through Programming In C	13
4	Introduction to Programming in C	3
5	Analog Circuits	4
6	User-Centric Computing for Human-Computer Interaction	1
7	Cloud Computing	2
8	Microprocessors And Interfacing	1

<b>S.No</b>	<b>Reg. No</b>	<b>Name of The Student</b>	<b>Year</b>	<b>Name of the Course Registered</b>	<b>Score</b>	<b>Certificate Type</b>
<b>1</b>	20501A0439	Kaligithi Dharani Supraja	IV	Introduction To Industry 4.0 And Industrial Internet of Things	53	Successfully completed
<b>2</b>	21501A0408	Arigela Sivaram	III	Evolution of Air Interface Towards 5G	64	Elite
<b>3</b>	21501A0410	Bande Manoj	III	Evolution of Air Interface Towards 5G	49	Successfully completed
<b>4</b>	21501A0414	Bhagavathula Lakshmi Venkata Sarvani	III	Evolution of Air Interface Towards 5G	73	Elite
<b>5</b>	21501a0442	Gjslphanindra	III	Evolution of Air Interface Towards 5G	53	Successfully completed
<b>6</b>	21501A0451	Kandula Naga Praveen	III	Evolution of Air Interface Towards 5G	52	Successfully completed
<b>7</b>	21501A0452	Kareti Sri Krishna	III	Evolution of Air Interface Towards 5G	56	Successfully completed
<b>8</b>	22505A0406	Ogirala Bindu Madhavi	III	Evolution of Air Interface Towards 5G	61	Elite
<b>9</b>	21501A0474	Mandala Jahnvi	III	Evolution of Air Interface Towards 5G	54	Successfully completed
<b>10</b>	21501A0477	Mediboyina Praveen Kumar	III	Evolution of Air Interface Towards 5G	54	Successfully completed
<b>11</b>	21501A0485	Muvvala Haritha	III	Evolution of Air Interface Towards 5G	48	Successfully completed
<b>12</b>	21501A04A0	P.Veena Naga Sri Surya Priya	III	Evolution of Air Interface Towards 5G	71	Elite
<b>13</b>	21501A04A3	Rajulapati Puneetha	III	Evolution of Air Interface Towards 5G	61	Elite
<b>14</b>	21501A04A6	Akhila Salapati	III	Evolution of Air Interface Towards 5G	63	Elite
<b>15</b>	21501A04B4	Talluri Divya Naga Durga	III	Evolution of Air Interface Towards 5G	65	Elite
<b>16</b>	21501A04D0	Yekula Chamundeswari	III	Evolution of Air Interface Towards 5G	47	Successfully completed
<b>17</b>	22505A0407	Parasa Thapaswi	III	Evolution of Air Interface Towards 5G	69	Successfully completed
<b>18</b>	21501A0412	B Nikhitha	III	Problem Solving Through Programming in C	41	Successfully completed
<b>19</b>	21501A0419	Bommareddy Neelima	III	Problem Solving Through Programming in C	41	Successfully completed
<b>20</b>	22505A0407	Parasa Thapaswi	III	Problem Solving Through Programming in C	55	Successfully completed
<b>21</b>	22501A0439	Garray Shyam Venkata Rama Swamy	II	Problem Solving Through Programming in C	52	Successfully completed
<b>22</b>	22501A0460	Katuru Gunadeep	II	Problem Solving Through	42	Successfully completed

				Programming in C		
23	22501A0461	Kodali Praneetha	II	Problem Solving Through Programming in C	57	Successfully completed
24	22501A0463	Kokku Rupesh Hari Sai	II	Problem Solving Through Programming in C	42	Successfully completed
25	23505A0403	Jithin Krishna Chintha	II	Problem Solving Through Programming in C	64	Elite
26	22501A0469	Konduri Venkata Naga Sri Guru Sasank	II	Problem Solving Through Programming in C	44	Successfully completed
27	22501A04A5	Prekki Satya Vamsi Krishna	II	Problem Solving Through Programming in C	41	Successfully completed
28	22501A04C3	Bala Siva Sai Satyanarayana Uddagiri	II	Problem Solving Through Programming in C	66	Elite
29	23505A0408	Medurijahnavi	II	Problem Solving Through Programming in C	43	Successfully completed
30	23505A0409	Polagani Siva Babu	II	Problem Solving Through Programming in C	54	Successfully completed
31	21501A0224	Chatala Gurubabu	III	Introduction to Programming in C	78	Elite
32	21501A0483	Mohammad Sohail	III	Introduction to Programming in C	82	Elite
33	22501A0441	Gudapati Srujana	II	Introduction to Programming in C	49	Successfully completed
34	21501A04A9	Shaik Chinthapalli Fareed Baba	III	Cloud Computing	52	Successfully completed
35	21501A04B2	Shaik Sultan Basha	III	Cloud Computing	63	Elite
36	22505A0409	Sivarathri Narayanaswami	III	Microprocessors And Interfacing	57	Successfully completed
37	22501A0450	Kancharla Nishitha Krishna	II	Analog Circuits	50	Successfully completed
38	22501A0480	Marupuru Venkat Hari Chandana		Analog Circuits	50	Successfully completed
39	22501A0498	Pagolu Sreeha Niveda	II	Analog Circuits	52	Successfully completed
40	22501A04C5	V S L Lavanya Kompella	II	Analog Circuits	53	Successfully completed
41	22501A04C4	Uma Kureti	II	User-Centric Computing for Human-Computer Interaction	47	Successfully completed
<b>Note: Reg.No 22505A0407 Certified Two Courses</b>						

- ii. **111** students of II B.Tech has completed certification course on **Basics of Python** offered by Infosys during Feb-March 2024.
- iii. **3** students of III B.Tech has completed certification course on **Python Foundation certification** offered by Infosys during Feb-March 2024.

**d. Extra-curricular Activities:**

- i. Ms. G.Srujana Reg.No: 22501A0441, J.Thabitha 23505A404 secured 3<sup>rd</sup> prize in CIRCUIT CRAZE conducted by Sunrise, NRI College, Pothavarappudu.



- ii. Ms. G.Srujana Reg.No: 22501A0441 & Ms. J.Thabitha 23505A404 secured 2<sup>nd</sup> prize in paper presentation conducted by Sunrise, NRI College, Pothavarappudu.



- iii. Mr. K. Gunadeep Reg.No: 22501A0460, Mr. Shankar Reg.No: 22501A471 secured 1<sup>st</sup> prize in Technical Quiz conducted by QIS College of Engineering & Technology, Ongole on 07<sup>th</sup> February 2024.





- iv. Ms. Gnana Prasoon Reg.No: 22501A0404, CH.Anusha Reg.No: 22501A413, CH.Yamini Sushma Reg.No: 22501A415, K.Anisha Reg.No: 22501A452, Ms. K.Shanmathi Reg.No: 22501A446, Ms. K. Praneetha 22501A0451 secured 2<sup>nd</sup> prize in throw ball conducted by Qis College of Engineering & Technology, Ongole on 8<sup>th</sup> February 2024.



- v. 14 students of II B.Tech participated in Technical Quiz Qis College of Engineering & Technology, Ongole on 8<sup>th</sup> February 2024.



vi. K Praneetha 22501A0461, Ch.Likhitha 22501A0420, Mr. B.Dhanush 22501A430, Mr. E. Vardhan Babu Reg.No: 22501A432, Ms. K. Shanmathi Reg.No: 22501A446, Ms. K. Anisha Reg.No: 22501A0452 participated in Dance conducted by QIS College of Engineering & Technology, Ongole on 08<sup>th</sup> February 2024.

vii. Two Students received **Merit Scholarships** from Institution of Engineers India (IEI): ₹ 28,000.

1. Ms. Saritha - 21501A0476
2. Ms. Chamundeswari - 21501A04D0



## 8. Higher Education

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

Sl. No.	Reg. No. of the Student	Name of the Student	Year of Study	Name of the Competitive Exam	Score	Date
1	20501A0412	Puja Madhuri Battina	IV	GRE	296	19.09.2023
				IELTS	7.5	18.11.2023
2	20501A0424	Devika Dasi	IV	GATE	286	GATE2024
3	20501A0437	Navatej Kadiyala	IV	GRE	307	19.09.2023
				IELTS	7.5	18.11.2023
4	20501A0439	Dharani Supraja	IV	GATE	271	GATE2024
5	20501A0444	Kolli Anvitha	IV	IELTS	6	2.12.2023
6	20501A0462	Gagana Sindhu	IV	GRE	320	20.09.2023
7	20501A0470	Nagabathula	IV	GATE	246	GATE2024
8	20501A0483	Potluri Siva Ram	IV	IELTS	7	24.02.2024
9	20501A0492	Ravada Anil Kumar	IV	GATE	410	GATE2024
10	20501A04B1	Uppala Sai	IV	IELTS	7	18.03.2024
11	21501A0408	Sivaram Arigela	III	GATE	315	GATE2024
12	21501A0438	Madhuri Ganji	III	GATE	276	GATE2024

## 9. Students Contribution

### Internship at Physitech Consultancy Services Pvt. Ltd.

We went to Physitech Consultancy Services Pvt. Ltd during 27/05/2024 - 06/07/2024 as part of our internship which is a curriculum in our academics. We have done internship in the domains IoT and VLSI. The Internet of Things (IoT) and Very Large-Scale Integration (VLSI) are two pivotal technologies shaping the future of electronics and communication. This report provides a comprehensive overview of a 6-weeks internship program that combined theoretical understanding and practical exposure in both IoT and VLSI domains.

On the first week we have done with the basic concepts of IoT architecture and basic introduction on hardware components, sensors, and microcontrollers. During our next two weeks we have done interfacing of various sensors, components with various microcontrollers using platform Arduino IDE which enhanced our practical knowledge about IoT. Later we were divided into batches and given projects. The list of projects includes

- WIFI controlled Hand gestured robot using ESP32, ESP8266(NodeMCU) and Gyroscope sensor.
- RFID attendance system using RFID tags and Data logging to Google spreadsheet.
- Voltage Monitoring system using mesh Networking.
- Accessing DHT sensor data from a web server and the ThingSpeak server using an ESP32 Microcontroller.
- Motion detection photo alert sent to email using a Raspberry Pi microcontroller and PIR sensor.
- Appending Ultrasonic sensor data to mobile through Bluetooth using ESP32 microcontroller.
- Data Monitoring system storing the data into SD card.
- Displaying temperature and humidity values on OLED and LCD display using ESP32 microcontroller from DHT sensor and e.t.c.

Finally on the last week, we are trained with basics of VLSI on FPGA (Field Programmable Gate Array) boards. We have implemented some basic combinational and sequential circuits on FPGA Trainer kits like decoders, encoders, multiplexers, demultiplexers, priority encoders, adders, subtractors and flip-flops using Xilinx ISE software. In addition, RTL Schematics and physical layout of the circuits are observed and Test Benches are also implemented to avoid malfunctioning in FPGA's. To improve the skills in VLSI, a project was done on FPGA boards. The project consists of controlling stepper motor rotation and speed with necessary inputs from toggle switches.

To conclude, the 6-weeks internship in IoT and VLSI was a comprehensive program that provided valuable insights and hands-on experience in both fields. We have gained a solid foundation in the latest technologies, preparing ourselves for future careers in electronics engineering and related domains.

**Thanks for "PHYSITECH" for sharing us their vast knowledge and experience...**





U.B.S.S.Satyanarayana  
22501A04C3  
3 YEAR/ 1 SEMESTER

### Internship at Sri Shasha Prayathi Technologies PVT.LTD

We 9 members went to Shasha Prayathi Technologies Pvt. Ltd during 27/05/2024 - 6/07/2024 which is located in NSIC (Kapra, ECIL, Hyderabad) as part of our internship which is a curriculum in our academics. We have done internship on the domain IoT. The Internet of Things (IoT) is pivotal technology shaping the future of electronics and communication. This report provides a comprehensive overview of a 6-weeks internship program that combined theoretical understanding and practical exposure in IoT domains.

First week we understood about the radars and their functions i.e., how they work, how to collect data from the sensors. In Second week we started using the sensors like IWR 1443, AWR 1642 by using these sensors we understood how to collect the data, and implemented the data in the TI mmwave Sensors. In the Third week we were divided into batches and we were assigned with the projects.

- Classification of human movement in indoor environment using machine learning Techniques.
- Classification of radar data set for drone detection in outdoor environment.
- People Occupancy Detection in Indoor Environment (up to five targets) using machine learning
- The project contains the aspects of collecting of the data in different forms, using the sensor IWR 1443 i.e., in the indoor environment and outdoor environment.
- Then the heatmaps for different receivers are generated using the Matlab program.

➤ Example

The heatmaps are used as the dataset for the machine learning algorithm.

Finally on the last week, we got the range, velocity and the coordinates which is useful to detect the position of the objects. Finally we completed the web application project using Python.

The internship at Sri Shasha Prayathi Technology was an enriching experience. I gained practical knowledge, improved my technical skills, and learned the importance of teamwork and effective communication. This experience has better prepared me for a career in the technology industry.

I would like to thank my mentors and colleagues at Sri Shasha Prayathi Technology for their guidance and support throughout the internship. Their insights and feedback were invaluable in my learning process.

Y.Varsha  
22501A04D1  
3 YEAR/ 1 SEMESTER

**Internship at DLRL, HYDERABAD**

We went to DLRL, HYDERABAD during Date:01/08/2024 - for our internship which was conducted by our college. At first, we entered into the campus and the head of the department allotted the guide to teach us. He briefly gave a glance about the topic “GENERAL PURPOSE 64 CHANNEL DATA ACQUISITION SYSTEM” by drawing a flow chart. He taught us about the lpfs, op-amps, multiplexers SAR-ADCs, DACs, and input/output components which are used in DAQ. He guided us about the frequencies such as input frequencies, cut-off frequencies, voltage, gain and remaining parameters which are used in DAQ. He guided us in such a way that we learnt how to draw a Discrete diagram, Professional diagram and timing diagram of DAQ from the flow chart which was given by him.

A General Purpose 64 Channel Data Acquisition System (DAQ) is a versatile instrument capable of simultaneously measuring and recording data from multiple analog inputs. This system is designed to handle a wide range of applications, including industrial process control, scientific research, and test and measurement. Key features typically include high sampling rates, precise resolution, and flexible input configurations. The DAQ system often incorporates advanced digital signal processing capabilities for real-time data analysis and output, enabling users to extract meaningful insights from complex datasets.

**Thanks for “DLRL” for sharing us their vast knowledge and experience**

P. Vaishnavi  
22501A04A0  
3 YEAR/1 SEMESTER



