

Sreenidhi Institute of Science and Technology

Yamnampet, Ghatkesar, Hyderabad, Telangana-501301

**Department
of**

Electronics and Communication Engineering

Research Report July-December 2022



Dr. S.P.V Subba Rao

**Professor & Head
Department of ECE**

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Completed Projects

Micro Irrigation System

- Phase 2 – Preliminary Evaluation of Micro Irrigation System
- Total Project Cost Rs : 7.8 lakhs
- MuRata Electronics Singapore
- Dr J Chattopadhyay, Dr SPV SubbaRao ,Ms E lavanya, Ms B Priyanka,
- **Status:** Project completed



Projects Submitted

1. Development of Massive MIMO Technology for enhancing Energy efficiency and Spectrum efficiency in 5G and Satellite Communication applications- FIST(Fund for Improvement of S&T Infrastructure) proposal (Rs 51 lakhs Project)

Dr SPV SubbaRao

2. Science and Technology Hub – DST Project (Rs 53 lakhs Project)

Dr T RamaSwamy, Dr T Ch Siva Reddy,

Dr C V Tomy, Dr SPV SubbaRao, Dr J Chattopadhyay,

Dr S Krishna

Projects Submitted

3. Massive MIMO Technology for Its Effective Implementation in 5G Communication Networks for enhancing Energy efficiency and Spectrum efficiency (**Rs 23 lakhs Project**)
- Dr SPV SubbaRao , Dr J Chatopadhyay, Dr T Rama Swamy
 - Project submitted for SERB under SURE Category (Science and Engineering Research Board -State University Research Excellence (SERB-SURE)
 - **Submitted on 7.10.22**

Projects Submitted

4. Integrated sophisticated sensor based product with radiation technology and deep learning models for the development of clinical high efficiency platforms for detection of various blood parameters in patients with long covid (Rs 30 lakhs Project)
 - Dr Shruhi bharghava, Dr Abhisek Choubhey(Rs 30 lakhs)
 - Project submitted for SERB under power grant Category

On Going Projects

1. IoT based Forest Management System for Illegal Deforestation, Fire Detection and Livestock Management

- TSCOST – DST- **Rs 4 lakhs**
- Dr J Chattopadhyay, Dr G Prasad Acharya, Dr V Jayaprakasan and Mrs P Lavanya
- Status: 90% of the project implementation completed . Results analysis is in progress



Hyderabad: Researchers from Sreenidhi Institute of Science and Technology (SNIST) have come up with an innovative forest monitoring system that can detect any intrusion and nearby fire accidents in the forest.

The Institute's researchers Prof. J Chattopadhyay, G Prasad Acharya, V Jayaprakasan, and P Lavanya have developed an advanced LoRa-based IoT prototype consisting of Laser transceivers and various sensors interfaced with Arduino to detect any intrusion and nearby fire accidents in the forest. The system also comes integrated with a PIR sensor that ensures protection of the equipment and is powered by solar energy for remote deployment.



On Going Projects

- **Smart Pill Companion**, organized by AICTE, MOE (**Rs.1.5 lakhs**)Dr Shruthi Bharghava



- New Gen Faucet AICTE, MOE (Rs. 2 lakhs)-
- **lakhs**)Dr Shruthi Bharghava



In House Projects

- **Implementation of physical layer signal processing in 5G using Deep Learning.**
 - Dr. T.Swapna, Dr S.P.V Subba Rao
- **Development of a prediction model for enhancing the crop yield using machine learning.**
 - Dr. C.N.Sujatha, Dr S.P.V.Subba Rao,
- **Implementation of LDPC coding algorithm for enhancing BER on SDR**
 - Dr. T. Ramswamy, Dr S.P.V Subba Rao, Dr. T.Swapna

In House Projects

- **Implementation of adaptive filters on DSP processor for video processing**
 - Mrs E Lavanya, Mrs B.Priyanka, Dr S Krishna
- **Convolutional neural networks prediction and classification of vehicular traffic in major junctions of Hyderabad using unmanned aerial vehicle imagery.**
 - Dr. S I Khan, Dr G.Ganesh kumar, Dr Prasad Acharya

Faculty Publications

Academic Year	Month	SCI	Scopus indexed	UGC Approved	Total
2022-23	July	1	2	2	5
	August	2	1		3
	September	2	1		3
	October	2			2
	November	2			2
	December	7	9		16
	Total		16	13	2
SCI/SCOPUS Under Review : 21					

SCI Publications details

- SCI PUBLICATIONS (Published 15 , Accepted 1)
1. **Sibghatullah Khan** “Arrhythmia classification using multi rate processing metaheuristic optimization and variational mode decomposition” Journal of King Saud **University-Computer and Information Sciences** , July 22
 2. **Shruthi Bhargava, Dr Abhisek Choubhey, Dr Abhisekh bhatta** Computer vision based predictive analysis of chronic cardiovascular disease “**Multimedia tools and applications** “(Q1 journal) November 22.
 3. **Pradeep, P.,** Jaya Sankar, K. & Chandra Sekhar, P. “A Compact Semi-circular Slot MIMO Antenna with Enhanced Isolation for Sub-6 GHz 5G WLAN Applications”. *Wireless Personal Commun* 125, 3683–3698 (Aug2022). <https://doi.org/10.1007/s11277-022-09730-x> (SCI-Q2)
 4. Manisha Kumari, **Tavanam Venkata Rao**, S. Arun Jayakar D. Srinivas, “A Beam Steering Dielectric Resonator Antenna Designed Using Rogers RO4003C Material for S-Band Applications”, **Hindawi journals** *Advances in Materials Science and Engineering* Volume 10 , October 2022, Article ID 7783967, 10 pages

SCI Publications details

5. B.P Santosh, [A. Pullareddy Reddy](#), [D. Siva](#), [Syed Jahangir Badashah](#), [Shafiulla Basha Shaik](#), “A computer aided diagnosis framework for detection and classification of interstitial lung diseases using computed tomography (CT) images” Applied Nanoscience (2022) (SCI) Volume 12, Issue 9 September 2022, pages 2533-2550
6. **Dr C.N Sujatha** “Optimal design of an Artificial Intelligence Controller for solar Battery integrated UPQC in Three Phase Distribution Networks”, Sustainability Journal October 22
7. **Mr S.K Satyanarayana has published in IEEE Sensor Networks" paper title : "A Reliable Link Selection and Data Aggregation Strategy for Wireless Multimedia Networks"VOL. 6, NO. 10, OCTOBER 2022**
8. **Dr C.N Sujatha** “using Reccurent Neural Networks for Predicting Type-2 diabetes from Genomic and Tabular data”, diagnostics Journal (SCI Journal) December 2022
9. **Dr S Jahangir Badshah:**” Detection and Classification of Benign-Malignant Lung Nodule on C.T. Images using GDDNN Classifier” (**BioMed Research International Journal** (SCI Journal) December 2022

SCI Publications details

10. **Sibghatullah Khan** “Automated eye movement classification based on EMG of EOM signals using FBSE-EWT technique”**IEEE Transactions on Human-Machine Systems Dec 22**
11. SI Khan, SB Choubey, A Choubey, A Bhatt Automated glaucoma detection from fundus images using wavelet-based denoising and machine learning(SCI-Q1) Concurrent Engineering Research and Applications, 2022, 30(1), pp. 103–115
12. **S.N Chandra sekhar** , “Deep learning Techniques in Attack prevention in Edge intelligent devices for nternet of things “Hindawi journals Computational Intelligence and Neuro science(accepted) December 2022

SCI Publication details

13. [Sanjeev Kumar Raghuwanshi](#), [Akash Srivastava](#), [Vikram Palodiya](#) & [Prakash Pareek](#)

Generation of a high chirp rate microwave signal by using external optical modulation technique for RADAR application: theory and experiment [Optical and Quantum Electronics](#) *Volume 55*, November 2022(springer)

14. VSGN Raju “Design of Soccer League Optimization Based Hybrid Controller for Solar-Battery Integrated UPQC”IEEE Access October 2022 (Q1 Journal)

15. GANJIKUNTA Ganesh Kumar*, MOHAMMED Mahaboob Basha,SIBGHATULLAH Inayatullah Khan”Energy Efficient FIR Filter Design Using Distributed Arithmetic, Shanghai Jiao Tong University August 2022

SCI Publication details

16. Shruti Bhargava Choubey, Ravi Kumar, E. Sathish Kumar, S. Vijayalakshmi "Design and Analysis of Nano sheet Field Effect Transistor for High-Speed Switching Applications" Silicon Q2 journal (accepted) December 22

Scopus Indexed Publications

- 1. Sibghatullah Khan** “Energy Efficient FIR Filter Design Using Distributed Arithmetic J. Shanghai Jiao Tong Univ. (Sci.), Aug 22
- 2. Pradeep Pendli**, Jaya Sankar Kottareddygari, and Chandra Sekhar Paidimarry. "A Compact 4x4 Peace-Shaped Wideband MIMO Antenna for Sub-6 GHz 5G Wireless Applications." INTERNATIONAL JOURNAL OF MICROWAVE AND OPTICAL TECHNOLOGY, VOL.17, NO.5, SEPTEMBER 2022. (Scopus-Q4)
- 3. Ramaswamy.T, SPV.Subba Rao, Y.Gopi Krishna** DESIGN AND VERIFICATION OF AMBA AXI4 FOR HIGHPERFORMANCE AND SOC INTEGRATION Published in Neuro Quantology -eISSN 1303-5150 Volume 20 | Issue 20 | Page 1432-1438 December 2022 (Q3-Scopus Indexed Journal)

Scopus Indexed Publications

- Ramani S ,Dr SPV SubbaRao,S.Latha,L.V.R Chaitanya Prasad**“A Novel Artificial Fish Integrated Particle Swarm Optimization (AFIPSO) and Random Artificial Neural Network Combined Gradient Descent (RANN-GD) Algorithm for WSN Security”International Journal of Intelligent Systems and Applications in Engineering ,ISSN:2147-67992147-6799 December22
- Mallikarjuna Mudda** “SIX DEGREE OF FREEDOM MATHEMATICAL MODELLING OF JET AIRCRAFT” Semiconductor Optoelectronics, ISSN- 1001- 5868, December 2022.

Scopus Indexed Publications

6. **S K Satyanarayana, Nirmala** "MPIGA – Multipath Selection Using Improved Genetic Algorithm International Journal of Communication Networks and Information Security" ISSN: 2073-607X, 2076-0930 Volume 14 Issue 1s Year 2022 Page 67:78(Scopus Indexed Journal)
7. J. Bindu Reddy, **Dr J Chattopadhyaya, Dr G Prasad Acharya ,Dr P Lavanya**" Implementation of LORA Enable Technology for IOT applications "Journal of North eastern University volume 25,Issue 4 2022,ISSN 1005-3026
8. **M.Bharghavi, Dr J Chattopadhyaya, Dr G Prasad Acharya. Dr V Jayaprakasan** " IOT based intrusion detection and fire detection system using LORA "Journal of North eastern University volume 25,Issue 4 ,2022,ISSN 1005-3026

Scopus Indexed Publications

9. **S.P.V.SubbaRao, Ramaswamy, T.Ushasree**
“Implementation of MIMO NOMA using Deep Learning approach Published Journal of North eastern University volume 25, Issue 4 ,2022, page 2939-2951 ISSN 1005-3026 December 2022
10. **V.Kumara Swamy, M.Jayaprakash, V Senthil** Design and development of Communication networks using IOT , River Publishers (Accepted) December 2022
11. **Rekha, S., Jino Ramson, S.R** “Parasitically Isolated 4-element MIMO Antenna for 5G/WLAN Applications” [Arabian Journal for Science and Engineering this link is disabled](#), july 2022, 47(11), pp. 14711–14720

Scopus Indexed Publications

13. **M. Mahaboob Basha**, Rambabu Busi, Srinivasulu Gundala and Pandya Vyomal Naishadh kumar”Design of Near-threshold CMOS and TG Based Adder Circuit for Computing Applications” J. of Active and Passive Electronic Devices, Vol. 16, pp. 191–201 July 2022
14. **VSGN Raju** “Design and Performance analysis of Fuzzy based hybrid Controller for Grid Connected solar Power battery unified Power quality conditioner”International Journal of renewable Energy Research (Accepted) December 2022

UGC JOURNALS

- 1. **Mallikarjun Mudda, Jahangir Badhasha**, “War Field Spying Robot with Wireless Camera, International Journal for Research in Applied Science & Engineering Technology, *ISSN: 2321-9653, Volume 10 Issue VI July 2022*, <https://doi.org/10.22214/ijraset.2022.44343>
- 2. **Mallikarjun Mudda, CN Sujatha, D. Mahesh**, “Unique ID Based Voting System” International Journal for Research in Applied Science & Engineering Technology, *ISSN: 2321-9653; Volume 10 Issue VI July 2022*, <https://doi.org/10.22214/ijraset.2022.44344>

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UGC JOURNALS

- 3. *Dr. V. Kumara Swamy*, M. Srikanth, Y. Veerabhadra, S. Navaneeth, “Alcohol Detection and Engine Locking System Using Arduino Uno with GPS Tracker”, International Journal for Research in Engineering Application & Management (IJREAM) ISSN : 2454-9150, PP.138-144, Vol-08, Issue-03, June 2022 (UGC Care Journal No: 64077), DOI : 10.35291/2454-9150.2022.0322**

Faculty Presentations in Conferences/Books Published

Academic Year	Month	International Conferences	National Conferences	Books Chapters Published	Total
2022-23	July	2		2	4
	August	1		3	4
	September	1			1
	October	1		1	2
	November	4	1		5
	December	7			7
	Total	16	1	5	22

Papers Presented in International Conferences

- 1 **Ms Keerthi Gayatri,.Dr SPV Subbarao, Dr CN Sujatha**, presented a Conference on " Adaptive Rate Control using Deep Reinforcement Learning'" at 7th International Conference On Engineering Research and Innovations-(ICERI-2022) 27-28th September 2022 organized by Terna Engineering college(TEC), Nerul, Navi Mumbai.
- **2.Ms Keerthi Gayatri,.Dr SPV Subbarao, Dr CN Sujatha**, on " Survey on Deep Recurrent Q networks" has also been accepted in EAI ICISML 2022 - EAI International Conference on Intelligent Systems and Machine Learning that is being conducted at Vardhman college on December 16-17,2022. The conference proceedings will be published by Springer and will be available in Springer digital library.



Papers Presented in International Conferences

3. **Dr G Prasad Acharya, Dr V Jayaprakasan** “ Development of Advanced Alerting System using Arduino interfaced with ESP32 CAM” October 8-9,2022 **IEEE 4th International Conference on Cybernetics, Cognition and Machine Learning Applications (ICCCMLA)**
4. **P.Pradeep** article Bandwidth enhancement of two element closely spaced MIMO antenna for wireless Lan applications accepted in [Lecture Notes in Electrical Engineering](#) (LNEE, volume 929)-Springer Singapore) December2022
5. **A choubey, SB Choubey,** .A Comparative Analysis of Image Steganography Based on Discrete Wavelet Transform (DWT) and Exploiting Modification Direction (EMD) Data, Engineering and Applications: Select Proceedings of IDEA, 283-290(IEEE)October 2022 [Lecture Notes in Electrical Engineering](#) book series (LNEE,volume 907) springer

Papers Presented in International Conferences

6. **Dr J Chatopadhyay** “Smart Entry System Following Covid-19 Protocols “IEEE Conference on Machine Learning Big Data Cloud and Parallel Computing July 2022
7. **L.V.R. Chaitanya Prasad**, Yedukondalu Kamatham, Dhiraj Sunehra, "An Energy Efficient Fuzzy Level Clustering for Stable Communications in Cognitive Sensor Networks", International Conference on Smart Generation Computing, Communication and Networking (SMARTGENCON 2022), 23-25th Dec 2022, Ghousia college of Engineering, Bangalore, India.(IEEE Bangalore section).

Papers Presented in International Conferences

8. **Dr D Asha Devi**, “Automatic Vehicle Identification and Recognition using CNN Implementation on PYNQ board” presented IEEE International Conference on Electronics, Communication and AeraSpace Technology (ICECA2022) during December 1st -3rd 2022
9. K.Niharika Reddy **Dr D Asha Devi**, Leela sai B “Prototype Implementation of LiFi based Data Communication System ” presented IEEE International Conference on Electronics, Communication and AeraSpace Technology (ICECA2022) during December 1st -3rd 2022

Papers Presented in International Conferences

- 11. Dr. Varkuti Kumara Swamy, Dr.T.Ramaswamy, Patchigolla Gowtham, Sai Sandeep Pandab, Katkam Rajkumar, "Data Analysis with Prototype Simulation for Industrial Agriculture Applications", International Conference on Innovations in Engineering and Technology (ICIET-2022), organized by JNTUH, Hyderabad, India during 15-17, September 2022.**

- 12. C.N Sujatha . "RFID Based ATM Security System Using IOT," 2022 International Conference on Intelligent Controller and Computing for Smart Power (ICICCSP), Hyderabad, India, July 21-22.2022, pp. 1-6, doi: 10.1109/ICICCSP53532.2022.9862486. (Available at Scopus database)**

Papers Presented in International Conferences

- 13. C.N Sujatha** “IOT based Fire and Traffic Density Detection using AI based Drone” is presented at International Conference on Automation, Signal Processing, Instrumentation and Control (iCASIC 2022) held on 28th & 29th November 2022 at Taylor's University, Malaysia in association with Vellore Institute of Technology, Vellore, India
- 14. C.N Sujatha** “Facial Recognition with IoT Based Alert System using OpenCV”, is presented at International Conference on Automation, Signal Processing, Instrumentation and Control (iCASIC 2022) held on 28th & 29th November 2022 at Taylor's University, Malaysia in association with Vellore Institute of Technology, Vellore, India

Papers Presented in International Conferences

15. **L. V. R. Chaitanya Prasad**, Yedukondalu Kamatham, and Dhiraj Sunehra, “An Energy Efficient Clustering and Relay Selection Scheme for Cognitive Radio Sensor Networks”, 2022 International Conference on Innovations in Science and Technology for Sustainable Development (ICISTSD), 25-26 August 2022, Kollam, India, ISBN:978-1-6654-9936-1, Publisher: IEEE
16. Srinivasa Raghuram Daita, **Shruti Bhargava Choubey and Abhishek Choubey** “A Journal on Cryptocurrency Analysis and Price Prediction Model using LSTM Neural Networks” IEEE ICMACC December 2022 (Best Paper Award)
17. **SN Chandrasekhar, NS Murthi sharma. S Krishan** “Performance Issues –modern Communication Environment “LAP Publishing August 2022

Papers Presented in National Conferences

- 1 **Mr P Pradeep** Presented a Paper on " Design of a highly isolated Two-Port MIMO antenna for 5G WI-FI-5 applications, in 37 th National Convention of Electronics and Telecommunication Engineers and **National Seminar on “ The Impact of 5G: Creating New Value Across Industries and Society”** at THE INSTITUTION OF ENGINEERS (INDIA) Telangana State Centre “Visvesvaraya Bhavan”, Khairatabad, Hyderabad on 18-19 November, 2022.



Book Chapters

1. **CSN Koushik, A Choubey, SB Choubey**, D Naresh, "Evolution of 1-D, 2-D, and 3-D Lifting Discrete Wavelet Transform VLSI Architecture", VLSI Architecture for Signal, Speech, and Image Processing, 1-26, CRC
2. H Kaur, **SB Choubey, A Choubey**, K Sai Deekshith, B eeranna, "Generation of Power from Waste Using Thermo-Electric Generators Computer Science, Technology and Applications, 151, CRC
3. **Dr Mahaboob Basha** published Book Chapter – **Lecture notes in Electrical Engineering, Springer**
4. Rajasekhar Turaka, S. Ravi Chand, **Tavanam Venkata Rao & V. Kumara Swamy**, "FPGA Implementation of Radix-2 Pipelined FFT Algorithm for High-throughput Applications", International conference on Advances in Electrical and Computer Technologies, pp 753–760, Published in Springer Nature, 26 Jul 2022, Part of the **Lecture Notes in Electrical Engineering book series (LNEE, volume 881)** ,

Book Chapters

5. [Samalla, Krishna., Kumar, P.N.](#) "A Novel Study and Analysis on Global Navigation Satellite System Threats and Attacks ["Lecture Notes in Electrical Engineering"](#), 2022, 853, pp. 371–381

Patents



Dr SI Khan, Dr Vyomal Pandya, Dr G Prasad Acharya, Dr V Jayaprakashan) got Indian patent grant.

- 1. Dr Mahaboob Basha Submitted Indian patent**
- 2. Dr Syed Jahangir Bhadshah submitted patent and waiting for patent Grant**
- 3. Dr Shruthi Bhargha got patent grant**

FDPs / Work shops organized

1. Two days Hands-on Workshop on Understanding of Routing and Switching Concepts in Data Communication and Networking using Cisco Packet Tracer 1 – 2 July 2022- **Dr V Jaya Prakasan**
2. Three Days Work shop Hands on FPGA based Design and Verification 11 – 13 October 2022 Organized by Department of ECE **Dr D Asha Devi**

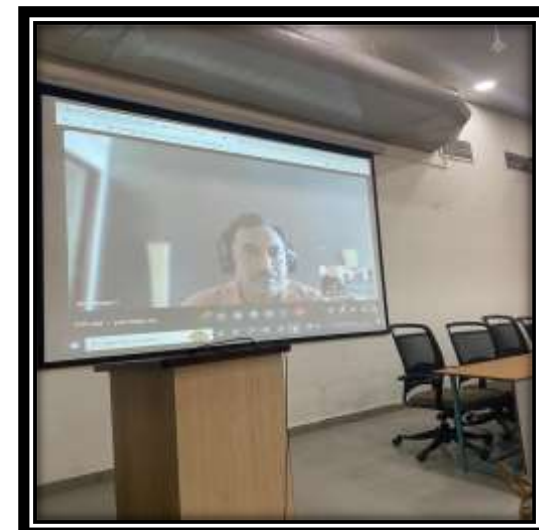
FDPs / Work shops organized

- 3. Workshop cum Internship On “Wireless Communication Technologies in 5G and beyond organized during 21st Nov – 3rd Dec, 2022.
- Dr T Rama swamy, Dr T Swapna, Dr SPV SubbaRao

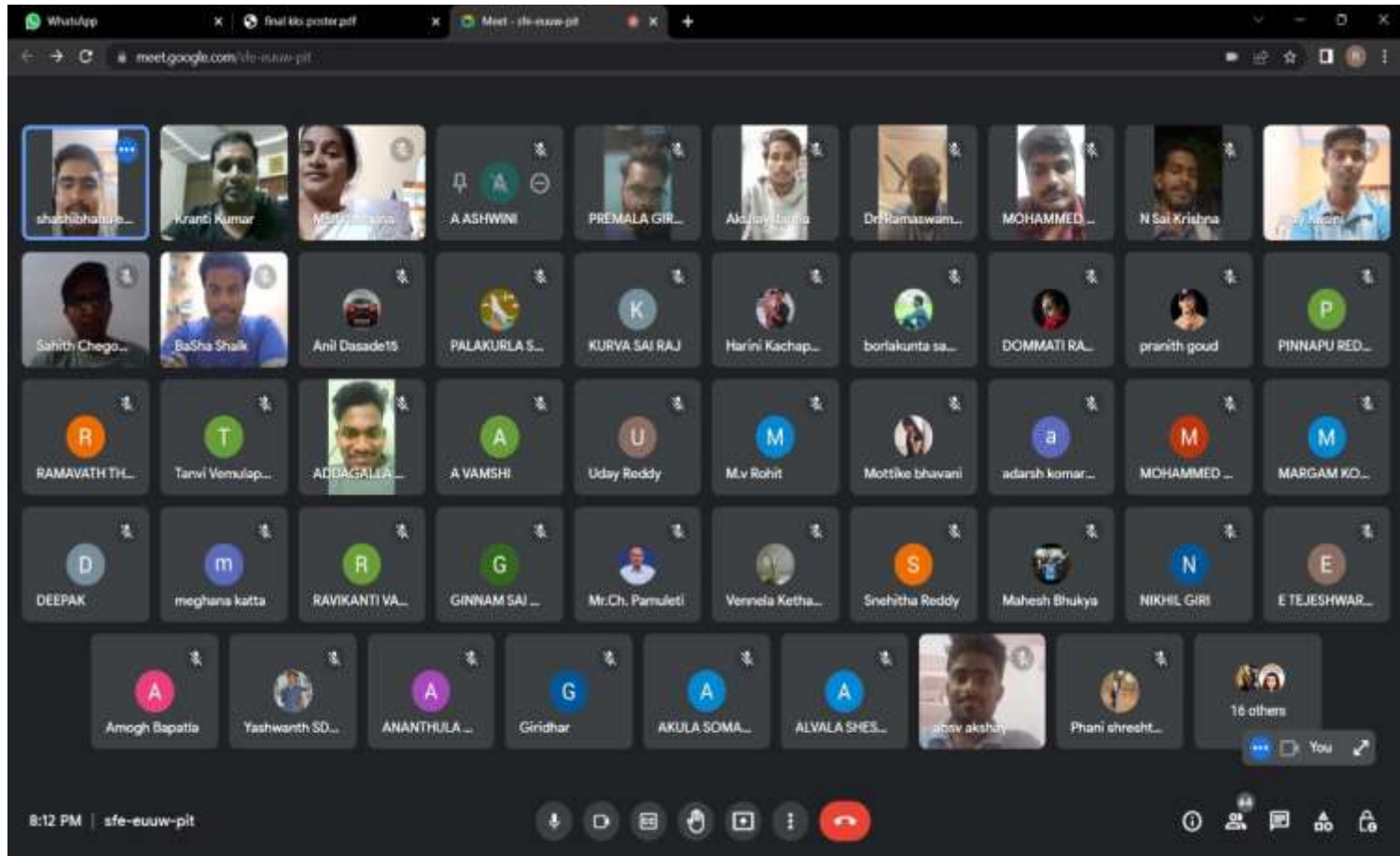
Resource Persons from Industry

- 1.Mr Kranti Kumar, KRAMATI IT Solution LLP, Hyderabad.
- 2. Mr T Somasekhar Gupta director Signify innovations ltd
- 3. Mr .Srinivas Raju. Co-Founder of Skill Ascend and has been the principal at Ericsson Global Competency Hub.
- 4. Mr .D.S Rao, RailTel, Project Director Hyderabad
- 5. Mr.Shiva nagender ,Qualcomm, Hyderabad.

5G Work shop



5G online internship session



FDPs / Work shops organized

- 4. A two days **PCB design work shop** with PCB Prototype making and antenna design is organised in AICTE Idea lab (SNIST -hub) for two days 22.11.22 and 23.11.22- **Dr S Ramani**
- Mr Jothi prasanth Enthu Training Engineer from Enthu Technologies, Coimbatore is the resource person and Training faculty on PCB Design machine .



FDPs / Work shops organized

5. **Applications of MATLAB with Technex IIT Varanasi** organised by ECE department on 12-13 November 2022- **Dr CN Sujatha**
6. Short Term Course on “Applications of Machine Learning and Deep Learning for Image and Video Processing “in coordination with CCE NIT Warangal from 27th Dec 2022 to 31st Dec2022 - **Dr CN Sujatha**
7. Cyber Security work shop organized by ECE department during December 2022- **Dr S.Krishna**

FDPs Attended

Dr S.P.V SubbaRao Scored 96% of marks in the test conducted at ATAL Idea Lab Basic FDP (Hands on Training) at VISVESVARAYA TECHNOLOGICAL UNIVERSITY CENTRE FOR POST GRADUATE STUDIES MUDDENAHALLI ,Bengaluru from 04/08/2022 to 08/08/2022 and also presented **Smart home** prototype in the valedictory



FDPs attended

1.The following faculty

- a. Dr G Prasad Acharya , Associate Professor
- b. Dr. Sibghatullah Khan, Associate Professor

from ECE department. attended Advanced FDP on Electronic Systems Design (12-18 October 2022; VTU- Muddenhalle, Bangalore) and the faculty are trained as the Tech Gurus .

2.Mr Ch Satyanarayana Assistant Professor completed Research Methodology Course work, from 15-10-2022 to 20-10-2022.at **JNTUH, KUKATPALLY, HYDERABAD-85**

FDPs attended

- The following faculty attended PCB design work shop organised by ECE department AICTE Idea lab
 1. Dr G Prasad Acharya , Associate Professor
 2. Dr. Sibghatullah Khan, Associate Professor
 3. Dr S Ramani , Associate Professor
 4. Mr Ch Satyanarayana, Assistant Professor
 5. Dr P lavanya, Assistant Professor
 6. Ms B. Priyanka ,Assistant Professor

FDPs attended

- The following faculty attended “**Wireless Communication Technologies in 5G and beyond**”
- Dr S Iata
- Dr S Ramani
- Dr SN Chandra sekhar
- Ms T.Jayasudha
- Mr LVR Chaitanya Prasad
- Mr M Rakesh
- Mr KNS Ganesh
- Mr VSGN Raju
- Mr SK Satyanarayana
- Mr P.Anvesh

FDPs attended

- Dr N S Murthi Sharma
- ATTENDED PYTHON BASED 30 DAY FREE COURSE ON Deep learning FROM 11Nov-10Dec2022 AND OBTAINED participation CERTIFICATE FROM APSSDC with collaboration of Pantech-elearning.
- Attended 30 DAY FREE COURSE ON Java2.0 FROM 11Dec-7-Jan2023 participation CERTIFICATE FROM APSSDC will be issued on due completion of the course.
- Registered 30 DAY FREE COURSE ON Web design FROM 28Dec-27Jan2023 participation CERTIFICATE FROM APSSDC will be issued on due completion of the course..
- Registered for NIT-SNIST workshop during 26-30, Dec 2022.

FDPs attended

- **Dr P Lavanya**
- 1. Participated Online Short Term Course on “Network Security Analysis using Wireshark, Snort and SO” conducted by Dept. of CSE – Cyber Security, Sreenidhi Institute of Science and Technology, Hyderabad in association with Center for Continuing Education, NITW from 05.12.2022-09.12.2022.
- 2. Attended a National Level FDP on “Applied Python & IoT with Raspberry Pi” organized by Dept. of ECE, JNTUHCEH in collaboration with Physitech Electronics, Secunderabad on 16 th & 17 th Dec 2022.

Certifications

- **NPTEL Certificate**
- **Dr SPV SubbaRao, Dr CN Sujatha and Mr LVR Chaitanya** received **ELITE Gold** for the NPTEL exam conducted during September 2022 in Principles of Communications -II Subject
- **APSSDC Certificate**
- Dr NS Murthisharma Successfully completed Data Science course

Certifications



Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)



This certificate is awarded to
S P V SUBBARAO
for successfully completing the course

Principles of Communication Systems - II
with a consolidated score of **91** %

Online Assignments	24.58/25	Proctored Exam	66/75
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Total number of candidates certified in this course: **44**

B. V. Ratish Kumar
Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jul-Sep 2022
(8 week course)

Satyaki Roy
Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL22EE73513012415 To validate the certificate  No. of credits recommended: 2 or 3



Certificate No: **PEL-APSSDC-DSA2.0_PAT-1101**



Pantech e Learning
DIGITAL LEARNING SIMPLIFIED



PANTECH SOLUTIONS
Technology Based The Future

CERTIFICATE OF PARTICIPATION

NAME **Dr.NIMUSHAKAVI SN MURTI SARMA**
COLLEGE **SREENIDHI INSTITUTE OF SCIENCE AND TECHNOLOGY**

has Successfully Completed
30 Days DataScience2.0 Master Class
at Pantech e Learning Pvt Ltd, Chennai

From **20.09.2022** To **21.10.2022**

W. Madhavan
W. Madhavan
Director
Pantech e Learning

Dr. B. V. Ratish Kumar
Dr. B. V. Ratish Kumar
Chief General Manager (Technical)
APSSDC



Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)



This certificate is awarded to
DR POLUBOYINA LAVANYA
for successfully completing the course

Introduction to Internet of Things
with a consolidated score of **80** %

Online Assignments	24.78/25	Proctored Exam	55.5/75
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Total number of candidates certified in this course: **9793**

Debjani Chakraborty
Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Jul-Oct 2022
(12 week course)



Indian Institute of Technology Kharagpur



Roll No: NPTEL22CS96543693856 To validate the certificate  No. of credits recommended: 3 or 4

NPTEL Certifications

- Dr CN Sujatha, Dr NS Murthi Sharma, Dr G Prasad Acharya, Mr SK Satyanarayana successfully completed NPTEL courses and AICTE FDP



Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
NIMUSHAKAVI SN MURTI SARMA
for successfully completing the course
**Principles of Signal Estimation for MIMO/OFDM
Wireless Communication**
with a consolidated score of **94** %

Online Assignments	25/25	Proctored Exam	69/75
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Total number of candidates certified in this course: 211

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jul-Oct 2022
(12 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

Roll No: NPTEL22EE72553694270 To validate the certificate

No. of credits recommended: 3 or 4



Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
C N SUJATHA
for successfully completing the course
**Principles of Signal Estimation for MIMO/OFDM
Wireless Communication**
with a consolidated score of **100** %

Online Assignments	25/25	Proctored Exam	75/75
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Total number of candidates certified in this course: 211

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jul-Oct 2022
(12 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

Roll No: NPTEL22EE72563693792 To validate the certificate

No. of credits recommended: 3 or 4

NPTEL Certifications



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
S K SATYANARAYANA
for successfully completing the course



Introduction to Internet of Things

with a consolidated score of **79** %

Online Assignments	22.72/25	Proctored Exam	56.25/75
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Total number of candidates certified in this course: **9793**

Jul-Oct 2022
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22CS96533682485

To validate the certificate



No. of credits recommended: 3 or 4



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
DR GOBINDA PRASAD ACHARYA
for successfully completing the course

Introduction to Machine Learning

with a consolidated score of **51** %

Online Assignments	16.44/25	Proctored Exam	34.88/75
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Total number of candidates certified in this course: **976**

Jul-Oct 2022
(12 week course)

Prof. Devendra Jalihal
Chairman,
Centre for Outreach and Digital Education, IITM

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



Indian Institute of Technology Madras



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
DR GOBINDA PRASAD ACHARYA
for successfully completing the course



Introduction to Internet of Things

with a consolidated score of **77** %

Online Assignments	24.13/25	Proctored Exam	52.5/75
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Total number of candidates certified in this course: **9793**

Jul-Oct 2022
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Student Innovation awards

The following students won Innovation awards at India International Innovation and Invention Expo (INEX INDIA) 2022 held at Goa during November 2022

<u>S.NO.</u>	Team Name	Innovation Title	Medal Category	Branch
1	Saket Gupta - 20311A04DK Devaruppala Bharath 20311A04AU Dr.Shruti Bhargava Choubey	New Gen Faucet -	GOLD	ECE
2	Sai Sreekar K S - 19311A0429 M Sai Harshith - 19311A0440	Autonomous Drone	GOLD	ECE
3	Pyda Sravan Kumar - 19311A04DK M Manish - 19311A027	Soil Moisture Sensor	GOLD	ECE
4	Challa Sri Gouri (19311A0462) Wasim Akram (19311A0494)	Smart bottle	SILVER	ECE
5	Dubbaka Sai Keerthan - 20311A0380 Pragada Satwik - 21315A0341	Flow Sensor	SILVER	ECE
6	Sai Sreekar K S - 19311A0429 M Sai Harshith - 19311A0440 Pyda Sravan Kumar - 19311A04DK M Manish - 19311A0278	Smart Pill Dispenser	SILVER	ECE

Awards

- Srinivasa Raghuram Daita, **Shruti Bhargava Choubey** and Abhishek Choubey “A Journal on Cryptocurrency Analysis and Price Prediction Model using LSTM Neural Networks” IEEE ICMACC December 2022 (Best Paper Award)
- Shruti Bhargava Choubey “International Innovation Ambassador award” in INEX2022 International Innovation Expo November 2022
-

Professional Interaction / Service

Professional Interaction / Service		
Sl. No.	Name of Industry/Institute	Engagement Details
1	National Atmospheric labs. Department of Space	MOU for monitoring weather conditions
2	Railtel	Meeting with D Srinivasa Rao Project Director railtel for 5G workhop, internships and MOU On 31.10.22
3	Emfact Embedded Systems, ECIL, Hyderabad, Telangana	Memorandum of Understanding made for Projects and internships
4	KRAMATHI IT solution	Meting with Mr Kranthi Kumar for 5G work shop, internships ,Projects on 2.12.22



NARL installed Automatic Weather Station with Data logger in SNIST





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Invites you

ENGINEER'S DAY

Celebrations

QUIZ COMPETITION
(Presents awaiting)
followed by
GUEST LECTURE



Dr. G. Mallikarjuna Rao

Senior Scientist in Research Centre
Imarat (RCI)
DRDO, Hyderabad



Somashekar Gupta

Tatavarthi

Global Product Manager Signify
Innovations Lab (philips Lighting)



Timings:

10:00 am to 3:00 pm

Venue:

Bio-tech seminar hall

Date:

15th September

REGISTER NOW >



Contact us :

Tharun Reddy - 7013032928 | Varsha Reddy - 7981816492

 tec_snist

 tecelectronixclub@gmail.com

 tecsnist.in

IEEE society chapters Activities

- **Inaugurated on 18 th November 2022**
- **IEEE Signal Processing Society Students Chapter**
- **IEEE Nano Technology Council Students Chapter**
- **IEEE Sensors Council Students Chapter**
- **by Dr. Lalitha Vadmani, IIT-Hyderabad**
- **Chair, IEEE Signal Processing Society Chapter,IEEE Hyderabad Section**
- **Dr. Santhosh Sivasubramani, IIT-Hyderabad,Chair, IEEE Nano Technology Council,IEEE Hyderabad Section**
-

IEEE society chapters Activities

- **16 th December 2022(11 AM to 12 Noon IST)**
- **Inauguration of IEEE Geoscience and Remote Sensing Society SNIST Students Chapter**
- Prof. Susmita Mitra, Machine Intelligence Unit Indian Statistical Institute, Kolkata, India
Prof. Mousmi Ajay Chaurasia
- **7th John McCarthy Memorial Lecture on On Harnessing AI for Healthcare**

IEEE Nano Technology Councils, 2nd IEEE Hyderabad Nano Day 2022 is organized on **22nd December 2022** (10 AM – 4 PM IST) by IEEE NTC Hyderabad Chapter & IEEE Hyderabad Section in Association with SNIST - IEEE NTC Student Chapter & IEEE SNIST SB.

7th John McCarthy Memorial Lecture on Harnessing AI for Healthcare & Inauguration of IEEE Geoscience and Remote Sensing Society SNIST Students Chapter 16th December 2022 (11 AM to 12 Noon IST) Organized by IEEE CIS/GRSS Jt. Chapter, IEEE Hyderabad Section In association with IEEE SNIST SB.

International Distinguished Lecture on Improved Control Algorithm for Power Quality Controlled Converters on 21st December 2022 (11 AM to 12 Noon IST) by IEEE PES/IAS/PELS Jt. Chapter, IEEE Hyderabad Section in association with SNIST-IEEE PES Students Chapter & IEEE SNIST SB



Dr Brij N Singh

**International Distinguished Speakers of IEEE PELS society
John Deere Intelligent Solutions Group (JD ISG)
Fargo, ND, USA**

Inaugural event of IEEE Sensors Council, IEEE Nano Technology Council Society and IEEE Signal Processing Society on **18-11-2022**. Dr Santhosh Subramanian, Chair, IEEE NTC and Dr. Lalitha, Chair, IEEE SPS are participated the event and inaugurated.

Inaugural event of **Geoscience and Remote Sensing Society and Robotics and Automation Society** on **16-12-2022**. Dr Sudharsan, Chair, IEEE RAS and Dr Mousmi, Chair – IEEE CIS/GRSS Joint Chapter are participated the event and inaugurated.

International Distinguished Lecture on How Emerging Information Technologies Could Shape the World Ahead on 1st September 2022 (10.30 AM to 11:30 AM IST) by IEEE Communications Society, Hyderabad Section in association with SNIST-IEEE Communications Society & SNIST SB.



San Murugesan

Director, BRITE Professional Services
Adjunct Professor, Western Sydney University
Member, Board of Governors, IEEE Computer Society
Chair, Magazines Operations Committee, IEEE Computer Society
Distinguished Speaker, ACM 2021-23
Distinguished Visitor, DVP, IEEE Computer Society, 2021-23
Former Editor in Chief, IEEE IT Professional
Sydney, Australia

Industry Visits

Visited NRSC by 3rd ECE on 29.7.22

Visited

Visited Kwality Photonics by 3rd ECE
in August 2022



Faculty Publications, R&D, Consultancy

Sl.no	Name of the faculty	SCI	Scopus indexed	International /national Conferences	Book chapters/books	R&D. Consultancy in Rs	Total
1	Dr S P V SUBBARAO	1#	3	2		7.8 lakhs	1.25
2	Dr D Asha Devi			3			
3	Dr V Jaya Prakasan		2	1		4 lakhs	.66
4	Dr CN Sujatha	2	2	5			1.33
5	Dr J Chattopadhyay		2	1		11.8 lakhs	0.66
6	Dr S Krishna				1		0
7	Dr T .Venkat rao	1			1		1
8	Dr V Kumara Swamy		1	1			1

Faculty Publications, R&D, Consultancy

Sl.no	Name of the faculty	SCI	Scopus indexed	International/national Conferences	Book chapters/books	R&D. Consultancy in Rs	Total
9	Dr Abhisek Choubhey	2	2	2	2		1.66
10	Dr Shruthi Bharghava	3	2	2	2	2.5lakhs	2.73
11	Dr T Rama Swamy		2	1			.66
12	Dr S Jahangir	2	2				1.66
13	Dr Y Srinivasulu		1				.33
14	Dr S Ramani		1				.25
15	Dr G Prasad acharya		2	2			.66
16	Dr P lavanya		1	2			.33

Faculty Publications, R&D, Consultancy

Sl.no	Name of the faculty	SCI	Scopus indexed	International/national Conferences	Book chapters/books	R&D. Consultancy in Rs	Total
17	Dr G Ganesh Kumar	1					.5
18	Dr M Basha	1	1		1		.83
18	Dr SJ khan	3	2				2.33
20	Dr Vikram Paloudiya	1					1
21	Dr S Rekha		1				1
22	Dr SN Chandra sekhar	1					1
23	Mr VSGN raju	1	1				.66
24	Mr P Pradeep	1	1	1			2
25	Mr SK satyanarayana	1	1				2

Faculty Publications, R&D, Consultancy

Sl.no	Name of the faculty	SCI	Scopus indexed	International/national Conferences	Book chapters/books	R&D. Consultancy in Rs	Total
26	Dr M mallikarjuna		1				.1
27	Mr LVR Chaitanya Prasad			2			
28	Ms K Gayatri			2			



**Thank
You**