VR Siddhartha Engineering College
Department of Electronics & Instrumentation Engineering

July 1st - Dec 31st   ISSUE-1   A.Y: 2020-2021

NEWS LETTER

Inside This Issue

- *Events*
- *Faculty Publications*
- *Faculty Participations*
- *Faculty Achievements*
- *Patents*
- *Book Chapters*
- *Industry Training*
- *Students Achievements*
- *Placements*

### *Potti Sreeramulu Jayanthi Celebrations*

Department of EIE celebrated "**Potti Sreeramulu Jayanthi**" on the occasion of birth anniversary of Sri. Potti Sreeramulu Garu on 15th December 2020. II/IV students of EIE actively participated in these celebrations.
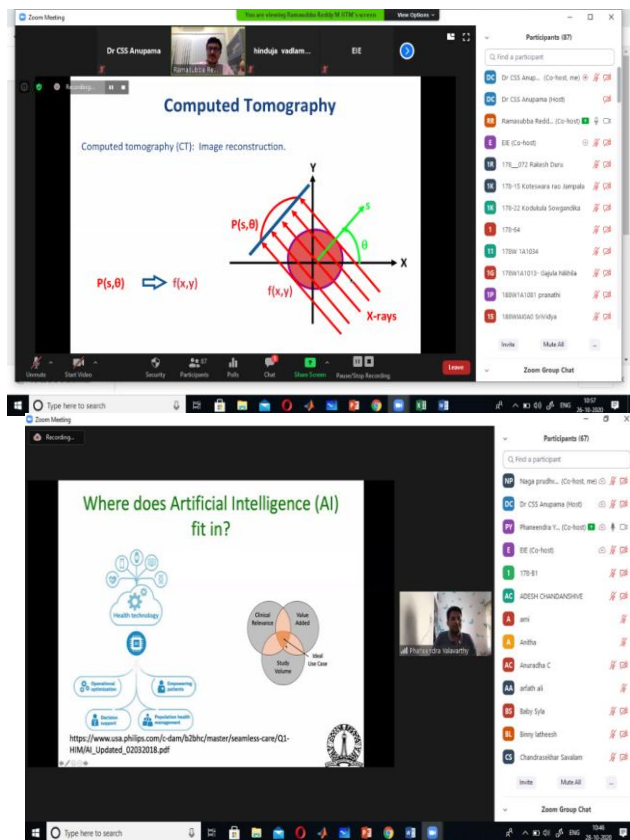
AICTE Sponsored STTP- Phase II
"Trends and Challenges in Medical Image Analysis through Deep Learning

EIE department conducted AICTE sponsored one week online Short-Term Training Program (STTP) Phase – II on "**Trends and Challenges in Medical Image Analysis through Deep Learning Algorithms**" from 7th – 12th December 2020. In Phase I the emphasis was on Medical Imaging Modalities. In the discussions, it was understood that the images produced by the modalities are complex and highly diversified. Also, by visual interpretation it is difficult for a radiologist to identify abnormalities in medical images. So, to assist the doctors in making accurate diagnosis, various techniques and algorithms were proposed in literature. In Phase II, the discussion is on Image Processing Algorithms for analysis of medical images. The resource persons are professors from IIT, IIIT, IIITM, Universities and Biomedical Industry. In addition to technical discussions, hands on sessions with MATLAB personals were also provided. Almost all the participants from phase I, have registered in phase II and gained good knowledge in the medical imaging analysis domain. A total of 110 participants benefited from this program. This program was coordinated by Dr.CSS Anupama.
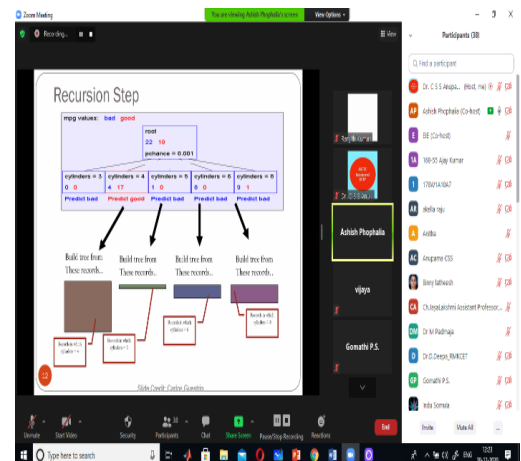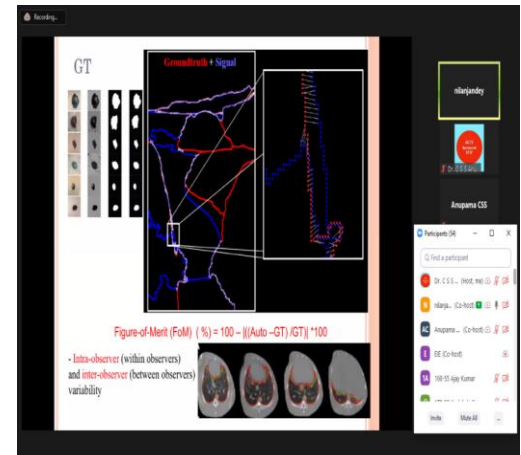
AICTE Sponsored STTP- Phase I
"Trends and Challenges in Medical Image Analysis through Deep Learning Algorithms"

AICTE sponsored one week online short-term training program (STTP) Phase–I on "**Trends and Challenges in Medical Image Analysis through Deep Learning Algorithms**" was organized by EIE Department, VRSEC from 26th to 31st October 2020. Medical image analysis has become a key technology in clinical diagnosis and medical intervention. Medical images are primarily visual in nature and are analyzed in the clinic by radiologists and physicians. However, visual analysis by human observers is usually associated with limitations caused by interobserver variations and errors due to fatigue, distractions, and limited experience. Computer analysis of biomedical images, if performed with the appropriate logic, has the potential to add objective strength to the interpretation of the expert. This necessitates effective and efficient computational tools to analyze and interpret medical images. A total of 127 participants benefited from this program. This program was coordinated by Dr.CSS Anupama, Associate Professor, EIE Department, VRSEC.

Guest Lecture on *"My Story- Motivational Session by Successful Entrepreneur"*
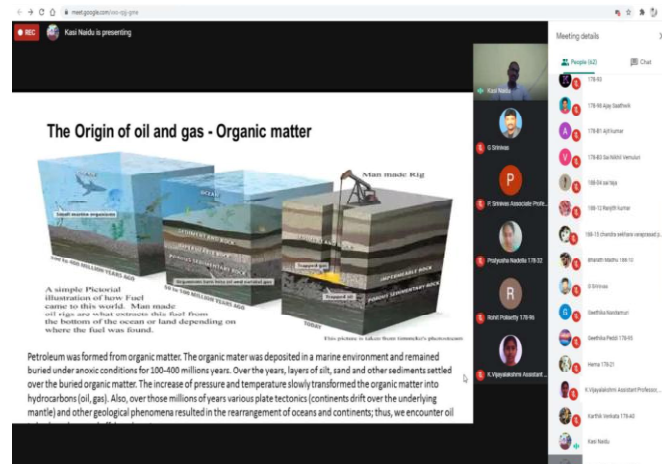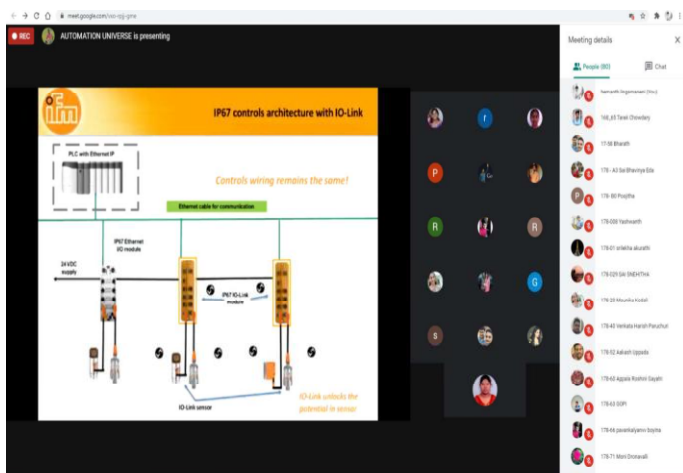
The ISOI student chapter and Department of EIE jointly organized a guest talk on "**My Story- Motivational Session by Successful Entrepreneur**" on 29th October 2020. The objective of this program was to motivate the students to become a good Entrepreneur. Mr. Mr.Koka Vinesh Managing Partner at V S Automation (Microsys Group), Hyderabad was the resource person for this event. He mainly addressed about which parameters (like honesty, punctuality, good services etc.) to be considered after establishing an automation related company. He interacted with the students and answered to the questions posed
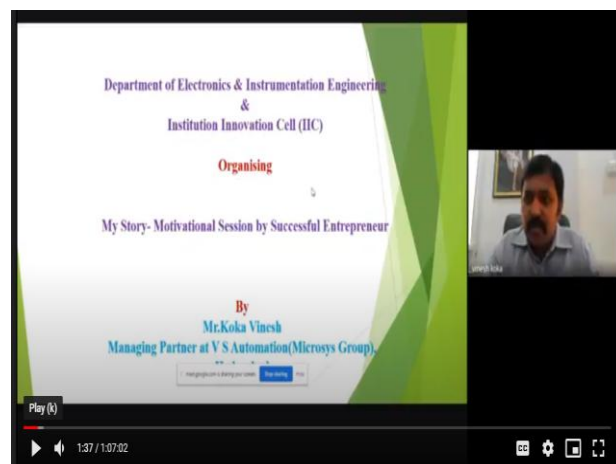
An online series of lectures by industry experts on *"Emerging Technologies in Industrial Automation"* (ETIA 2020)"

A six-day online series of lectures by industry experts on "**Emerging Technologies in Industrial Automation**" was organized by Department of EIE, VRSEC during 14th to 19th October 2020. The industrial automation nowadays is especially important due to globalization and competition between the industries. The main aim of automation is to increase the product quality and production rate without increasing the expenses. The main objective of conducting this online series of lectures as an interactive program is to fulfil the gap between the

industries and academic institutes, also to provide an exposure to the participants in the field of real-world industrial automation from level of introduction to application. A total of 90 participants benefited from this program. Dr. G.N.Swamy, Professor & HOD, EIE was the convener, Mr. P Srinivas, Assoc. Prof., and Mrs. K.Vijaya Lakshmi, Asst. Prof. are the coordinators of this program.


Guest Lecture on "Architecture of Solid State Drive"

The ISOI student chapter and Department of EIE jointly organized a guest talk on "Architecture of Solid State Drive" on 15th October 2020. The objective of this program was to introduce the awareness of Solid State Drive. Mr. G Sridhar Prudhvi Raj, Principal Engineer in Western Digital, Bangalore was the resource person for this event. He mainly addressed about the memory transition and architecture of solid state drive. He answered to the questions posed by the students such as how they select SSD, etc.
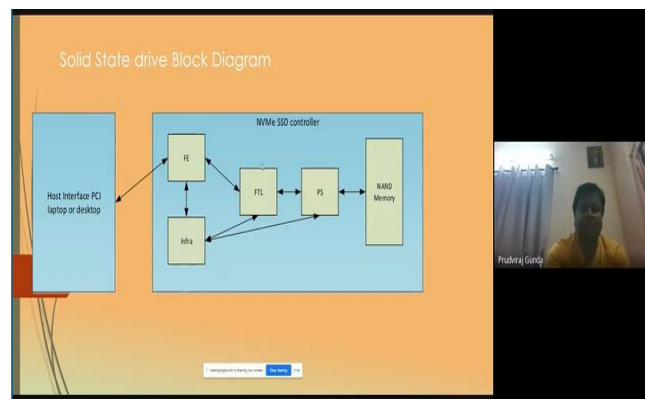
Innovation Day 2k20

Department of Electronics & Instrumentation Engineering organized and celebrated Innovation Day celebrations on 15th October 2020. On the eve of Innovation Day, the department of EIE organized **Technical model Exhibition- cum - Competition** in online. The outcome of this event is to encourage the students to convert their innovative ideas into real time projects, which will be helpful to the society. 9 project models by 30 participants were exhibited from different fields of applications. The models exhibited belongs to thrust areas like Smart Irrigation with Internet of Things (IoT), Control and automation, Internet of Things (IoT), Advanced Sensors and Bio Medical. Out of 9, 2 models were exhibited under Smart Irrigation with (IoT).
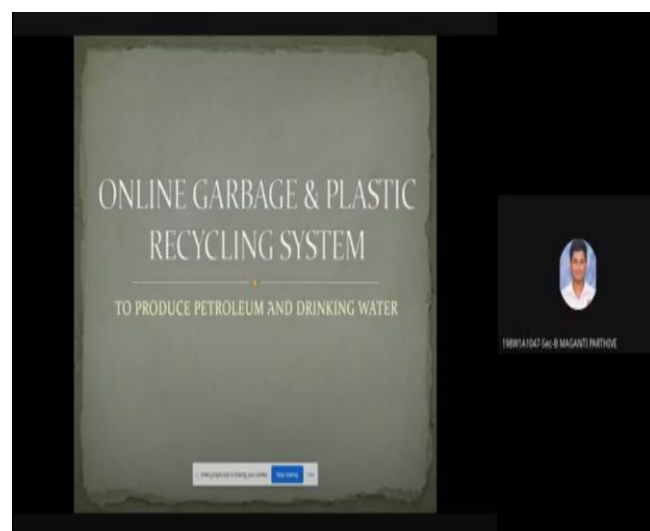
FACULTY ACHIEVEMENTS

- Dr.G.N.Swamy, Professor and HOD, EIE was nominated as a member of Board of Studies of Instrumentation Technology department, Andhra University for a duration of 3 years from 04-12-2020 to 03-12-2023.
- Dr. S.Srinivasulu Raju, Delivered an invited talk on "Intelligent controllers and estimation for robotic vehicles" at FDP titled "Robotics", sponsored by AICTE Training and Learning (ATAL) Academy, organised by Department of Mechanical Engineering, Narayana Engineering college, Nellore, during 14th -18th Dec 2020.
- Ph.D. awarded to Mrs. A. Sumalatha for the thesis entitled "Application of System Identification Techniques to Boiler Drum Modeling for the Design and Analysis of Drum Level Control Schemes" in the area of specialization, Industrial Process Control - system Identification by College of Engineering (A), Andhra University, Visakhapatnam on 16th December 2020.

Ph. D REGISTERED FACULTY

- Mr.V.N.Prudhvi Raj has registered for External Part time Ph.D. in SRM (Deemed to be University), Chennai in July 2020.

FACULTY PUBLICATIONS

International Journals:
- Mahammad Firose Shaik and Dr M. Monica Subashini "SAR and SINR based Hub selection process for using LabVIEW", Journal of Advanced Research in Dynamical & Control Systems, Vol. 12, Issue 7, July 2020.
- P. Durgaprasadarao and Dr. N. Siddaiah "Analysis of Hybrid 3D Indoor Localization with Uncertain Anchor Positions in Sustainable Applications", Journal of Green Engineering, Vol. 10, Issue 11, November 2020.
- K. Prasanti, S. Kalpana & S. Chandra Sekhar "Protection of Cultivated Fields during Heavy Rains and Air", Journal of Green Engineering, Vol. 10, Issue 12, December 2020.
- Dr CSS Anupama, M. Sivaram & E. Laxmi "Synergic Deep Learning Model–based Automated Detection and Classification of Brain Intracranial Haemorrhage Images in Wearable Networks", Personal and Ubiquitous Computing, doi: 10.1007/s00779-020-01492-2, November 2020.
- Dr.S. Srinivasulu Raju, V. H. Madhavi, S. Kalpana, D. M. Mamatha "The recapitulation and connotation of covid-19 pandemic–review", *Vidyabharati International Interdisciplinary Research Journal (Special Issue June 2020)*, pp.308-313, 2020, *(Web of Science Indexed: Impact factor 1.469)*. ISSN 2319-4979.

International Conferences:
- P. Srinivas, K. Vijaya Lakshmi and B. Phanindra has presented a paper on "Quanser Qube Twinning" in First International Conference on Future Technologies in Manufacturing, Automation, Design and Energy at NIT Puducherry during 28/12/2020 to 30/12/2020.
- K. Umamaheswari has presented a paper on "IoT based Smart Cold Storage System for Efficient Stock Management " in International Conference on Communication and Signal Processing at Adhi Parasakthi Engineering college, Malavamrtur, TN during 28/07/2020 to 30/07/2020.
- V. Naga Prudhvi Raj has presented a paper on "Analysis of Autism Spectrum Disorder in children with prepared dataset A Machine learning approach for meth prediction" in 2nd International Conference on IoT, Social, Mobile and cloud in computational vision and Bio-Engineering at St. Mother Theresa Engineering College during 29/10/2020 to 30/10/2020.

- P. Sushma Chowdary has presented a paper on "A Survey on Industrial Applications Using MEMS and WSN" in 4th International conference on I-SMAC (IOT in social, mobile, analytics and cloud) at SCAD institute of technology, Palladam, TN during 07/10/2020 to 09/10/2020.

- Ch. Jayalakshmi and Dr. G.N.Swamy has presented a paper on "COVID-19 Pandemic Review: Future Directions on Detection of Coronavirus using Imaging Modalities and Computational Intelligence" in 3rd International Conference on Recent Trends in Advanced Computing-Artificial Intelligence and Technology-2020 at VIT, Chennai during 17/12/2020 to 18/12/2020.

- P. Rajesh has presented a paper on "Signal Processing Techniques for Coherence Analysis between ECG and EEG signals with a Case Study" in Congress on Intelligent Systems, CIS-2020 at Soft Computing Research Society, New Delhi during 05/09/2020 to 06/09/2020.

- P. Rajesh has presented a paper on "Exploration of Magnitude Squared Coherence for Assessment of more functionally associated region of brain to heart of healthy subjects" in 4th International Conference on Intelligent Communication, Control and Devices, ICICCD-2020 during 27/11/2020 to 28/11/2020.

- Koppala Guravaiah, Dr. S. Srinivasulu Raju "e-Agriculture: Irrigation System based on Weather Forecasting", in proceedings of 15th (IEEE) International Conference on Industrial and Information Systems (ICIIS 2020), during 26/11/2020 to 28/11/2020 at Indian Institute of Technology Ropar (IIT Ropar), India.

- Dr. S. Srinivasulu Raju, T. Niranjan, P.Pandiyan and M.Sai Snehitha "A review of an early detection and quantification of osteoarthritis severity in knee using machine learning techniques", in proceedings of ISBN Indexed Conference Proceedings International Conference on Research and Advances in Mechanical Engineering (ICRAME-2020), during 10/12/2020 to 11/12/2020 at Vignan Institute of Technology and Science, Hyderabad, India.

- T Niranjan, B. Singaravel, & Dr. S. Srinivasulu Raju "Integrated Fuzzy Criteria Evaluation with Metaheuristic Optimization for Green Supplier Selection and Order Allocation", in proceedings of ISBN Indexed Conference Proceedings International Conference on Research and Advances in Mechanical Engineering (ICRAME-2020), during 10/12/2020 to 11/12/2020, at Vignan Institute of Technology and Science, Hyderabad, India.

- Dr. S. Srinivasulu Raju, Dr. G. N. Swamy, Y.Bharath and Ch. Naga Nandini "Simulation and performance analysis of autonomous underwater vehicle using advanced control algorithms", in proceedings of IEEE Madras Section sponsored International Conference on Communication and Signal Processing (ICCSP 2020), during 28/07/2020 to 30/07/2020 at Adhiparasakthi Engineering College, Tamil Nadu, India.

- Dr. S. Srinivasulu Raju, Dr. G. N. Swamy, M.Sai Snehitha and A.Rejoice "An early detection and quantification of osteoarthritis severity in knee", Presented during 10th International Conference on soft computing for problem solving (SoCProS 2020), held at Indian Institute of Technology Indore, India, during 18/12/2020 to 20/12/2020.

BOOK CHAPTERS PUBLISHED BY FACULTY

- P. Durgaprasadarao Published a book chapter "Analysis of RSSI Indoor and Outdoor Localization in Lora Networks", in Immortal Publications book titled Authentication and Access Control for secure Communication in Mobile Cloud Computing, ISBN Number 978-93--5407-019-8 on 02/12/2020.

- M. Srinivas Published a book chapter "Networking Challenges in Cloud Computing", in Immortal Publications book titled Authentication and Access Control for Secure Communication in Mobile Cloud Computing, ISBN Number 978-93--5407-019-8 on 02/12/2020.

PROJECTS APPLIED BY FACULTY

- Dr. S Srinivasulu Raju, Dr G N Swamy and Dr. P V Subbaiah applied for a project with the title "Design, Modelling, Implementation, and Fabrication of MEMS based Resonant Glucose Sensor" to DST on 15th November 2020.
- Dr. S Srinivasulu Raju Submitted a proposal for AICTE-ISTE Orientation / Refresher one-week Program on "**Industrial Robotics and Applications**" under AICTE Quality Improvement Scheme (AQIS), AICTE, Govt of India. (Proposal No: 202000205).

PATENTS FILED BY FACULTY

- Dr. CSS Anupama, P. Srinivas, M. Srinivas, K. Vijaya Lakshmi, K. Umamaheswari and Dr. N. Swathi filed a patent with the title "A Wireless Networking of Medical Equipment's on Mobile Application for Paperless Clinic" and application no: 2020103799 on 30/11/2020.
- P. Sushma Chowdary, S. Kalpana, K. Prasanti, A. Sumalatha, M. Kranthi published a patent with the title "Smart Home Appliances for Wi-Fi Device Using IOT for Old Age and Disabled Person" and application no: 202041044233 on 16/10/2020.
- Dr.S.V.N. Sreenivasu, Dr. S. Srinivasulu Raju, Dr. Lalit Garg, Dr. Bhanu Prakash Battula published a patent with the title "Automatic Pathological voice quality assessment using IoT based machine learning algorithms" and application no: 202041029211A on 31/07/2020.

FACULTY PARTICIPATION IN FDP'S

- K.Umamaheswari attended online ATAL FDP on "Internet of Things" organized by JNTUA college of engineering from 09/11/2020 to 13/11/2020.
- Dr. CSS Anupama, K. Vijaya Lakshmi, P. Srinivas attended online FDP on " AI and Deep Learning" organized by APSSDC from 01/07/2020 to 28/07/2020.
- K. Umamaheswari, M.Kranthi, P.Sushma Chowdary, P.Durgaprasadarao, Ch. Jayalakshmi attended online FDP on "ICT Tools for Teaching, Learning Process and Institutes" organized by E & ICT academy, NIT Patna and MNIT Jaipur from 10/08/2020 to 21/08/2020.
- P.Sushma Chowdary attended online FDP on "Recent advantages in antennas and applications (RAAA)" organized by KLEF from 14/07/2020 to 18/07/2020.
- Dr. N. Swathi attended online ATAL FDP on "Sensors Technology" organized by Dept. of ECE, NIT Jamshedpur from 01/10/2020 to 05/10/2020.
- P.Srinivas attended online FDP on "Advanced Control Paradigms and Evolving Trends (ACPET-2020)" organized by NIT Kurukshetra from 26/10/2020 30/10/2020.
- S. Kalpana attended online ATAL FDP on "Wearable Devices for Assistive Technology" organized by Kongu Engineering College from 14/09/2020 to 18/09/2020.
- P.Srinivas and K. Vijaya Lakshmi attended online FDP on "Control Systems and Sensors Technology" organized by IIT Nagpur from 21/09/2020 to 25/09/2020.
- P.Durgaprasadarao and S. Kalpana attended online FDP on "Sensor Technology" organized by NITTR, Chandigarh from 21/09/2020 to 25/09/2020.
- K. Vijaya Lakshmi attended TEQIP-III sponsored One Week Online Short-Term Course on "Advanced Control Paradigms and Evolving Trends (ACPET-2020)" organized by Department of Electrical Engineering, NIT, Kurukshetra from 26/10/2020 to 31/10/2020.

- K. Vijaya Lakshmi attended TEQIP – III sponsored one-week online STTP on "Recent Trends in Instrumentation Engineering" organized by Department of Electrical Engineering, NIT, Uttarakhand and Department of Electrical & Instrumentation Engineering, SLIET Longowal, Punjab from 07/09/2020 to 11/09/2020.
- A. Sumalatha attended online FDP on "Basics of SCADA" organized by APSSDC from 12/10/2020 to 16/10/2020.
- Dr. A. Sumalatha attended online FDP on "Control Systems & Sensors Technology" organized by College of Engineering Pune from 14/12/2020 to 18/12/2020.
- K. Prasanti attended online FDP on "Internet of Things (IoT)" organized by IIT, Goa from 14/11/2020 to 18/11/2020.
- Ch. Jayalakshmi attended online ATAL FDP on "Medical Image Processing and Deep Learning Technologies" organized by Parimalar Institute of Technology, Coimbatore from 21/09/2020 to 25/09/2020.
- S. Kalpana attended online FDP on "Sensors Technology" organized by NITTR, Chandigarh from 21/09/2020 to 25/09/2020.
- K. Prasanti attended online FDP on "National Intellectual property Week" organized by Ministry of Education's Innovation Cell from 15/10/2020 to 23/10/2020.
- Dr.S.Srinivasulu Raju, Participated in a one week International FDP on "Recent Trends in Computer Science & IT", in Association with International Association of Professional & Fellow Engineers, Delaware, USA Indo-UK Confederation of Science, Technology & Research LTD., London, UK International Accreditation Council for Conference & Professional Excellence, Delaware, USA, organized by Department of CSE, Raj Kumar Goel Institute of Technology, Ghaziabad from 13/07/2020 to 17/07/2020.
- Dr.S.Srinivasulu Raju, participated in a one week online Short term FDP on "Implementation of Information and Communication Technology in Teaching" which was delivered as MOOC with four quadrants, organised by School of Legal Studies, Cochin University of Science and Technology in collaboration with The Kerala State Higher Education Council from 18/07/2020 to 24/07/2020.
- Dr.S.Srinivasulu Raju, participated in a one week FDP on "AI and ML Applications in Image Processing using modern tools" organized by Department of Electronics and Telecommunication Engineering, Electronics and Communication and Medical Electronics, M S Ramaiah Institute of Technology, M.S.R. Nagar, Bangalore, during 13/07/2020 to 18/07/2020.
- Dr.S.Srinivasulu Raju, Successfully completed the Three day National level online Faculty Development Program on "Digital Skills for Effective Teaching", organized by RUSA 2.0 – Entrepreneurship and Career Hub, University of Madras, Chennai, during 22/07/2020 to 24/07/2020.
- Dr.S.Srinivasulu Raju, Participated in a one week online short term course on "Blockchain and Machine Learning", organized by Department of CSE, Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya, Haridwar in Technical Collaboration with IBM & AICTE (AICTE Training And Learning (ATAL) Academy) from 29/06/2020 to 03/07/2020.
- Dr.S.Srinivasulu Raju, participated in a one week TEQIP-III sponsored FDP on " Machine Learning & Deep Learning Techniques with its Applications", in association with IEEE Rajasthan Sub Section, Organised By Rajasthan Technical University, Kota Poornima College of Engineering, Jaipur held from 18/08/2020 to 22/08/2020.
- Dr.S.Srinivasulu Raju, Participated in a TEQIP-III sponsored One-Week FDP on "Machine Intelligence in Biomedical and Health Informatics-2020", Organized By Department of ECE, NIT Silchar, India held during 20-24th August 2020
- Dr.S.Srinivasulu Raju, Participated in a one week online International workshop on " Machine Learning and Computer Vision: Applications, Research Challenges (MLCV 2020)" jointly organized as twinning programme by NIT Silchar, Assam & Gauhati University Institute of Science & Technology, Guwahati, Assam, held from 24/08/2020 to 28/08/2020.
- Dr.S.Srinivasulu Raju, participated in a 6 days FDP on "Impactful Online Teaching and Student Engagement" organized by Uttarakhand Science Education and Research Centre, Department of Information & Science Technology, Govt. of Uttarakhand in collaboration with CCE, UPES, Dehradun & Vibha, Vigyan Bharti, during 04/08/2020 to 09/08/2020.

- Dr.S.Srinivasulu Raju, participated in a one week online FDP on "Advanced Research Trends of Satellite Image Processing in Land Surface Monitoring", organized by Advanced Computing Research Lab, Department of Computer Application under the aegis of Human Resource Development Center (HRDC), Integral University, Lucknow, India, from 24/28 August, 2020.
- Dr.S.Srinivasulu Raju, participated in an International Level Virtual FDP on "Green and Sustainable Technology for Next Generation" organized jointly by Department of Chemical Engineering and Department of EEE, Sri Sivasubramaniya Nadar College of Engineering, Chennai during 21/30 August, 2020.
- Dr.S.Srinivasulu Raju, Participated in a one week FDP on "Computational Intelligence Techniques for Machine Learning" organized by the Department of CSE & IT, Jaypee University of Information Technology, Waknaghat-173234 (H.P.), India, from August 31 to September 5, 2020.
- Dr.S.Srinivasulu Raju, participated in a one week FDP on "Advancements in Signal Processing and Optimization Techniques in WSN", Organized by the Department of ECE, Rajasthan Technical University, Kota & Poornima College of Engineering, Jaipur, held from 21/09/02020 to 25/09/2020
- Dr.S.Srinivasulu Raju, participated in a TEQIP -III sponsored 15 days Online (50hrs/15days) FDP On "Data Science & Its Applications In STEM", conducted by Andhra University College Of Engineering (A), Andhra University and University Engineering College -Vizianagaram, JNTUK, Kakinada in association with APSCHE (Andhra Pradesh State Council of Higher Education) from 07/09/2020 to 21/09/2020
- Dr.S.Srinivasulu Raju, participated in a one week FDP on "3D Printing- Future of Manufacturing" conducted by the Department of ME, VNRVJIT, during 05/10/2020 to 09/10/2020.
- Dr.S.Srinivasulu Raju, participated in a ATAL online FDP on " Control Systems & Sensors Technology", organised by Department of Instrumentation and Control, Madan Mohan Malaviya University of Technology Gorakhpur, from 17/10/2020 to 21/10/2020.
- Dr.S.Srinivasulu Raju participated in a one-week online FDP on "Information Security: Issues and Challenges (ISIC-2020)" sponsored by ISEA-II and organized by Department of CSE, Motilal Nehru NIT Allahabad, Prayagraj, Uttar Pradesh, India during 17/11/2020 to 21/11/2020.
- Dr.S.Srinivasulu Raju, Participated in a AICTE sponsored Two weeks online FDP on "Cutting Edge Trends in Deep Learning Approaches", organised by Department of Computer Applications, Kongu Engineering College, Erode-638060, during 07/12/2020 to 22/12/2020.

WORKSHOPS ATTENDED BY FACULTY

- Ch. Jayalakshmi attended online workshop on "Deep Learning Algorithms in Medical Imaging" organized by SRMIST, Kattankulathur, Chennai from 26/08/2020 to 28/08/2020.
- Ch. Jayalakshmi attended online workshop on "Outcome Based Education; Importance of Outcomes, Assessment and Evaluation for Accreditation" organized by BMS College of Engineering, Bangalore from 14/08/2020 to 16/08/2020.
- S. Kalpana attended online workshop on "Universal Human Values Basic workshop" organized by AICTE from 02/11/2020 to 06/11/2020.
- S. Kalpana attended online workshop on "Universal Human Values stage-1" organized by AICTE from 30/11/2020 to 04/12/2020.
- M. Srinivas, G. Jalalu, M. Kranthi and P. Rajesh attended online workshop on "Universal Human Value - UHV" conducted by AICTE from 14/12/2020 to 18/12/2020.
- M. Kranthi attended online workshop on "IoT using Raspberry-Pi" organized by VIT, Chennai from 02/10/2020 to 04/10/2020.
- Dr.S.Srinivasulu Raju participated in International One-Week Online workshop on "Trends in Artificial Intelligence & Machine Learning" organized by the Department of Computer Application, North Orissa University from 16/07/2020 to 21/07/2020.
- Dr.S.Srinivasulu Raju participated in the TEQIP-III sponsored Three Days National Webinar / Video workshop on "Transforming Pedagogy in India", Organised by NIT JAMSHEDPUR during 01/08/2020 to 03/08/2020.

- Dr.S.Srinivasulu Raju attended the online workshop on 'Deep Learning for Computer Vision' conducted by the Electronics and ICT Academy, PDPM IIIT, Design and Manufacturing Jabalpur, during 17/08/2020 to 22/08/2020.
- Dr.S.Srinivasulu Raju participated in the TEQIP III Sponsored Five days online Workshop on "Advancements in Electrical Engineering: An Academic & Industrial Approach" conducted by the Department of Electrical Engineering, NIT Silchar from 03/08/2020 to 07/08/2020.
- Dr.S.Srinivasulu Raju, successfully attended the International Workshop on "Developments in Structural Dynamics & Soil-Structure Interaction (DSD&SSI-2020)" under TEQIP-III and in association with IIC, NIT Silchar, organized by the Department of Civil Engineering of NIT Silchar during 11/09/2020 to 15/09/2020.
- Dr.S.Srinivasulu Raju participated and successfully completed the TEQIP III Sponsored five day workshop on "Advanced Image Analysis for Machine Learning (AIAML-2020)" organized by Department of Computer Science & Engineering, NIT Arunachal Pradesh from 14/09/2020 to 18/09/2020.
- Dr.S.Srinivasulu Raju, Participated in Two Day online national level workshop on "Communication, VLSI, Image Processing and Design of Antennas- COVID", Organised by Department of ECE, University college of Engineering Vizianagaram (UCEV).
- Dr.S.Srinivasulu Raju, Participated in the TEQIP-III sponsored one-week workshop on "Recent Trends in Innovative CMOS-MEMS Technologies and Applications: Hands on Learning", organised by Department of ECE, NIT Silchar from 11/09/2020 to 15/09/2020.
- Dr.S.Srinivasulu Raju has completed the SPARC sponsored one-week Online Workshop on "Additive Manufacturing", organized by Dept. of MME, NIT Tiruchirappalli In Association with NTNU, Norway and Tallinn University, Estonia., from 02/11/2020to 07/11/2020.
- Dr.S.Srinivasulu Raju participated in one-week online workshop on "Algebra and Optimization 2020" sponsored by TEQIP- 3rd Scheme in NIT –Nagaland, Department of Science and Humanities (Mathematics), NIT Nagaland from 23/11/2020 to 27/11/2020.

ONLINE SHORT-TERM TRAINING COURSES ATTENDED BY FACULTY

- Dr. S. Srinivasulu Raju, participated in AICTE Sponsored one-week online STTP on "Recent Advances in wireless communications & future challenges" organized by Department of ECE, Vardhaman College of Engineering, Hyderabad during 13/07/2020 to 18/07/2020.
- Dr. S. Srinivasulu Raju, participated in a six-day STTP on "EC8391 Control systems Engineering", organized by Department of ECE of AMRITA College of Engineering & Technology, from 06/08/2020 to 12/08/2020.
- Dr. S. Srinivasulu Raju, participated in the TEQIP III Sponsored One-week Short Term Course on "Intellectual Property Rights" organized by Department of Chemistry, Dr. B. R. Ambedkar National Institute of Technology Jalandhar from 07/09/2020 to 11/09/2020.
- Dr. S. Srinivasulu Raju, Participated in TEQIP-III Sponsored one-week online STTP on "Latest Development in Communication and Microwave Technologies", organised by Department of Electrical Engineering, Dr B R Ambedkar NIT Jalandhar, from 02-09-2020 to 06-09-2020.
- Dr. S. Srinivasulu Raju, Attended TEQIP-III Sponsored one-week online STTP on "Recent Trends in Deep Learning (RTIDL-2020)", organised by Department of IT, Government College of Engineering, Aurangabad, from 04/09/2020 to 08/09/2020.
- Dr. S. Srinivasulu Raju, participated in "AICTE Sponsored One STTP Phase II on "Machine Learning with Python in Data Science - Applications and Research Perspectives" organized by Department of IT, SRM Institute of Science and Technology, from 07/09/2020 to 12/09/2020
- Dr. S. Srinivasulu Raju, participated in the TEQIP III Sponsored One-week Short Term Course on "Soft Computing: Theories and Applications" organized by Department of IT, Dr. B. R. Ambedkar NIT Jalandhar from 14/09/2020 to 18/09/2020.
- Dr. S. Srinivasulu Raju, completed the TEQIP-III sponsored one week online short-term course on "Future Scope in Engineering Materials and Tribology (FSEMT-2020)", organized by the Department of ME, Dr B R Ambedkar NIT. Jalandhar. held from 15/09/2020 to 19/09/2020.

- Dr. S. Srinivasulu Raju, participated in a TEQIP-III sponsored STTP on "Emerging Trends in VLSI Design", conducted in virtual mode by the Department of Electronics Engineering, Sardar Vallabhbhai NIT Surat, from 12/09/2020 to 16/09/2020.
- Dr. S. Srinivasulu Raju, participated in online STC on "Recent Advances in Affordable & Clean Energy (RAACE-2020): A Roadmap to SDG7", sponsored by AICTE-QIP and organised by Department of Electrical and Instrumentation Engineering, SLIET, Longowal, Punjab during 14/09/2020 to 19/09/2020.
- Dr. S. Srinivasulu Raju, participated in the TEQIP III Sponsored one week online Short-Term Course on "Emerging Techniques in Condition Monitoring of Electrical Apparatus" organized by Department of Electrical Engineering, NIT Srinagar, from 07/09/2020 to 11/09/2020.
- Dr. S. Srinivasulu Raju, participated in "AICTE sponsored one-week online STTP on "Advanced Techniques in Modelling and Analysis for Structural and Thermal Applications" organized by the Department of ME, VNRVJIT, from 31/08/2020 to 05/09/2020.
- Dr. S. Srinivasulu Raju, participated in TEQIP-III Sponsored one-week online Short-Term course on "Low Power VLSI Design for Communication Systems and Networks", organised by Department of Electrical Engineering, Dr B R Ambedkar NIT Jalandhar, from 16/09/2020 to 20/09/2020.
- Dr. S. Srinivasulu Raju, participated in the TEQIP-III Sponsored One Week Short Term Course on "Data Analytics Tools and Techniques (DATT-2020)" held online organized by Department CSE, Dr B R Ambedkar NIT Jalandhar from 22/09/2020 to 26/09/2020.
- Dr. S. Srinivasulu Raju, participated in the TEQIP-III sponsored one week online short-term course on "Recent Advances in Sensor Design and Interface Circuits" Organized by the Department of Instrumentation and Control Engineering, Dr B R Ambedkar NIT Jalandhar, held from 15/10/2020 to 19/10/2020.
- Dr. S. Srinivasulu Raju, participated in the One Week AICTE sponsored STTP on "Fractional Order Robust Control System Design (Series-I)", organized by Department of EEE, Vardhaman College of Engineering, Hyderabad, during 26/10/2020 to 31/10/2020.
- Dr S Srinivasulu Raju attended the Six Days AICTE Sponsored Online STTP on "Leveraging the Power of Serverless Computing: Architectural and Economic Impact, Research Challenges and Issues" organized by Department of CSE, Kongu Engineering College during 02/11/2020 to 07/11/2020.
- Dr. S. Srinivasulu Raju, participated in the AICTE sponsored online STTP on "Deep Learning Techniques for Ambient Intelligence and Smart Environment - II" organized by the Department of CSE, R.M.D. Engineering College, R.S.M Nagar, Kavaraipettai held from 02/11/2020 to 07/11/2020.
- Dr S Srinivasulu Raju participated in the One Week AICTE sponsored STTP on "Fractional Order Robust Control System Design (Series-II)", organized by Department of EEE, Vardhaman College of Engineering, Hyderabad, during 23/11/2020 to 28/11/2020.
- Dr S Srinivasulu Raju attended online Short-term Course on "Recent Trends on Facts & Renewable Energy Sources (RTFRES-2020)" Organized by the Department of Electrical Engineering, NIT Jamshedpur from 24/11/2020 to 29/11/2020.
- Dr. S. Srinivasulu Raju, participated in the six days online AICTE sponsored STTP on "Supervised and Unsupervised machine learning using google cloud" organized by Department of ECE, R.M.K College of Engineering and Technology, R.S.M. Nagar, Puduvoyal, from 16/11/2020 to 21/11/2020.
- Dr. S. Srinivasulu Raju, participated in AICTE sponsored STTP under AQIS on "Selenium Web driver Using Python", organized by the Department of Master of Computer Applications, M S Ramaiah Institute of Technology, Bangalore, India from 20/11/2020 to 26/11/2020.
- Dr. S. Srinivasulu Raju, attended the online STTP on "Recent advances in information security: Fundamentals, challenges and some future research directions (RAISFCFRD-2020)", organised by IIIT Bhubaneswar, Odisha, India. held on 07/12/2020 to 11/12/2020.

- Dr. S. Srinivasulu Raju, participated in the AICTE sponsored short-term course on "Statistical Methods in Physical Sciences and Engineering" conducted as a part of quality improvement program, organized by the Department of Physics, IIT Indore during 07/12/2020 to 12/12/2020.
- Dr. S. Srinivasulu Raju, participated in one-week AICTE Sponsored short term training program on "Advances in Electric Vehicles", organised by department of EEE, RV College of Engineering, Bengaluru, from 21/12/2020 to 26/12/2020
- Dr. S. Srinivasulu Raju, participated in the AICTE sponsored one-week online STTP-III on "Role of smart Technology in Maritime Industries", organised by department of EEE, Academy of Maritime Education and Training (AMET) Deemed to be University, Chennai from 14/12/2020 to 19/12/2020.
- Dr. S Srinivasulu Raju attended online training course on "Industry 4.0 and Smart Manufacturing: Opportunities and Challenges" sponsored by TEQIP-3 and organized by Department of Industrial & Production Engineering, Dr. B. R. Ambedkar NIT, Jalandhar from 20/07/2020 to 24/07/2020.
- Dr. S Srinivasulu Raju attended online training course on "Signal Processing, AI and Deep Learning" organized by Department of ECE, Dr. B R Ambedkar NIT Jalandhar, Punjab, India from 13/07/2020 to 17/07/2020.
- Ch. Jayalakshmi, P. Rajesh, Dr. N.Swathi, A Sumalatha, S. Kalpana and K. Prasanti attended online short term training course on "Trends and challenges in Medical Image Analysis through deep learning algorithm, Phase-I" sponsored by AICTE and organized by Dept. of EIE, VR Siddhartha Engg. College from 26/10/2020 to 31/10/2020.
- Dr. N.Swathi, P.Rajesh, Ch.Jayalakshmi, Dr. A Sumalatha attended online short term training course on "Trends and challenges in Medical Image Analysis through deep learning algorithm, Phase-II" sponsored by AICTE and organized by Dept. of EIE, VR Siddhartha Engg. College from 07/12/2020 to 12/12/2020.
- Dr. CSS Anupama Registration No 1-455749797 has successfully completed the online orientation training program for mentors organized from 03/06/2020 to 10/06/2020 under National Initiative for Technical Teachers Training (NITTT), AICTE, New Delhi.

WEBINARS ATTENDED BY FACULTY

Fourteen members of EIE faculty attended a total of 69 different webinars during July to December 2020.

NPTEL/COURSERA/UDEMY/EDX/IBM/ONLINE COURSES COMPLETED BY FACULTY

9 members of EIE faculty completed a total of 32 different certification courses during July to December 2020.

STUDENT CO-CURRICULAR ACHIEVEMENTS

1. K. Sai Tharun (188W1A1069) of 3/4 B.Tech. participated in National level seminar conducted by NSS unit of LBRCE on 27/12/2020.
2. Y. Bharath (178W1A1058) and Ch.Naga Nandini (178W1A1007) of 4/4 B.Tech. participated in 9th IEEE International conference on "Communication and Signal processing" during 28/07/2020 to 30/07/2020 organized by Adhiparasakthi Engineering college.
3. P. Vijay Kumar (188W1A1099) of 3/4 B.Tech. participated in EnCypher 2020, "A national cyber security conference", conducted by CyberFrat India during 02/11/2020 to 04/11/2020.
4. A. Sri Aiswarya Vallika (188W1A1052) of 3/4 B.Tech. participated in online workshop on "Data Analytics using Python" organized by St.Ann's college for women during 04/07/2020 to 06/07/2020.
5. A. Ramu (188W1A1002) of 3/4 B.Tech. attended a guest lecture on "High efficiency video encoding" on 17/10/2020 conducted by Dept. of CSE, KLU.

PLACEMENTS

A total of **22** students of 4/4 B.Tech. are placed in software and hardware companies like TCS Ninja, Capgemini, Cognizant, Hexaware during Academic Year 2020-2021.

PLACEMENTS REPORT ACADEMIC YEAR 2020-2021				
S.NO.	**NAME**	**ROLL NUMBER**	**COMPANY**	**PAY PACKAGE**
1.	KODURU SAMHITHA REDDY	178W1A1023	HEXAWARE	3.6 LPA
2.	YEDLA BHARATH	178W1A1058	TCS NINJA	3.8 LPA
3.	PAYALA DOONDESWAR	178W1A1042	CAPGEMINI	3.8 LPA
4.	DAKARAPU RAJA SWETHA	178W1A1069	CAPGEMINI	3.8LPA
5.	PALLAVARJULA KASYAP	178W1A1093	CAPGEMINI	3.8 LPA
6.	CH NAGA NANDINI	178W1A1007	COGNIZANT	4 LPA
7.	GAJULA NIKHILA	178W1A1013	COGNIZANT	4 LPA
8.	KODUKULA SOWGANDIKA	178W1A1022	COGNIZANT	4 LPA
9.	MARELLA PRIYA MYTHILI	178W1A1024	COGNIZANT	4LPA
10.	OBILISETTI RISHIKA	178W1A1091	COGNIZANT	4 LPA
11.	S MOHITH SAI TEJA	178W1A10A1	COGNIZANT	4 LPA
12.	VEDURUPAVULURI NEHA	178W1A1054	COGNIZANT	4 LPA
13.	SOWGANDIKA KODUKULA	178W1A1022	TCS NINJA	3.8 LPA
14.	MEGHANA SADHU	178W1A1026	TCS NINJA	3.8 LPA
15.	ROSHINI GAYATRI APPALA	178W1A1060	TCS NINJA	3.8 LPA
16.	SUSHMA NAIDU	178W1A1090	TCS NINJA	3.8 LPA
17.	KASYAP PALLAVARJULA	178W1A1093	TCS NINJA	3.8 LPA
18.	AJAY SAATHWIK P	178W1A1098	TCS NINJA	3.8 LPA
19.	S MOHITH SAI TEJA	178W1A10A1	TCS NINJA	3.8 LPA
20.	SWATHI SAGI	178W1A10A2	TCS NINJA	3.8 LPA
21.	T N V LALITHA PRIYA	178W1A10A7	TCS NINJA	3.8 LPA
22.	POOJITHA VAGICHERLA	178W1A10B0	TCS NINJA	3.8 LPA