THE BEACON RAY

A quarterly newsletter from NIT Warangal

July 2021 | Vo. 2 , Issue 2

FOREWORD

Dear friends,

Hope all of you and your family members are doing well and are safe during the COVID-19.



The Institute is continuously striving to maintain the standards and live up to the expectations even during these testing times. The Institute has done reasonably well on all fronts in the last academic year 2020-21. The academic year has been successfully completed with the support of all the stakeholders. Online teaching through LMS is a new experience to all of us. I congratulate the LMS team for developing and maintaining the necessary LMS infrastructure so that the academic activities could be conducted smoothly in the online mode without interruption. I congratulate all the teaching faculty for the remarkable transformation from "chalk and talk" to the online mode. I am sure that this experience will facilitate in enhancing our outreach programs, and blended mode will become a part of our teaching-learning process. I congratulate the Dean (Academic) and his team for their untiring efforts in seeing to it that the academic year is successfully completed as per the academic calendar despite of the corona first and second wave induced difficulties.

Some of our faculty colleagues have bagged prestigious R&D projects worth Rs. 3.50 crores in the recent past. Congratulations to all these faculty colleagues for their achievements. It is heartening to note that our Institute has done exceedingly well in the campus placements. A record number of UG and PG students are selected with attractive packages in the academic year 2020-21. I congratulate the Head, CCPD and his team for this appreciable achievement.

Accreditation is an important measure in assessing the quality of education being offered. The Institute is in the process of applying for NBA accreditation of all the eligible programs in a phased manner. I congratulate the NBA Institute NBA coordination Committee Chairman and his team for successfully uploading the e-SAR applications for six B. Tech and three M. Tech programs in the first batch. The process of preparing the e-SARs has given us an opportunity in knowing the strengths and weaknesses in our system and thereby evolve corrective measures.

The Institute has always been in the forefront in implementing the initiatives of the MoE, GoI, including the NEP-2020. A major exercise is being carried out in revising the Scheme and Syllabus of all the academic programs being offered by the Institute. A series of new programs are also being offered from this academic year 2021-22 onwards. A new 5-years integrated B. Sc and M. Sc and 19 new P.G. Diploma programs in seven engineering branches are being offered.

The Institute is giving lot of importance in strengthening the human resources by periodic recruitments. I am happy to inform that four Deputy Registrars and one Superintendent Engineer have been recruited in the recent past. Steps are also being initiated to release notifications shortly for the recruitment of faculty and technical staff.

Special efforts are being made to vaccinate all the faculty, staff and their families by organizing Covid vaccination camps in the campus. I congratulate the Registrar and the Doctors in the Institute Health Center for their efforts in coordinating with the District Administration in this regard.

I congratulate the Editorial Board of the Newsletter for compiling all the details and bringing out this edition. Let us all resolve to work hard and take the Institute to greater heights.

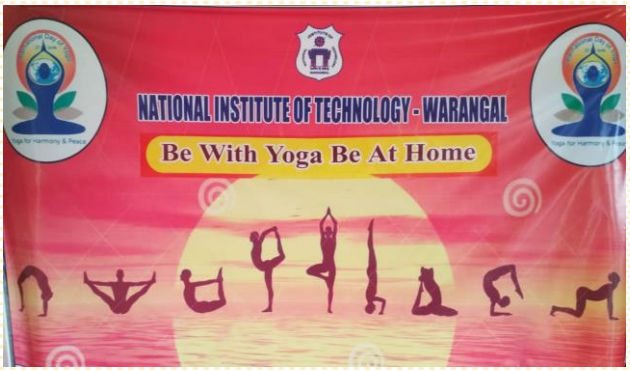
- Prof. N. V. Ramana Rao

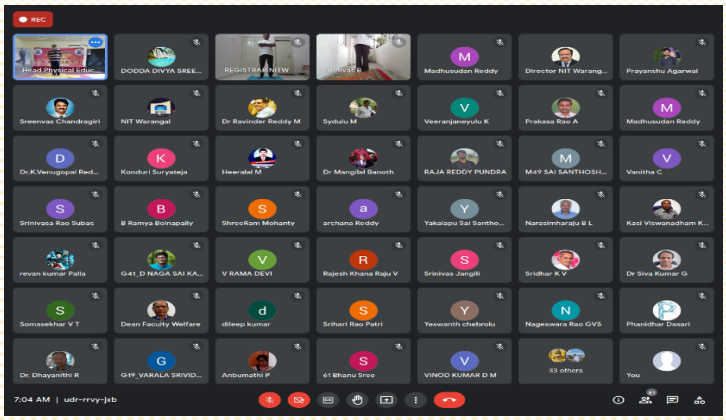
Director, NIT Warangal

International Day of Yoga Celebrations

International Day of Yoga Day was celebrated (virtual session) held on 21st June, 2021. A large number of students, staff, faculty along with their family members took part in this programme.













Patents Granted

- **Dr. K.V. Kadambari** Assistant Professor, Department of CSE and her student Ms. B. Lavanya Madhuri were awarded a patent entitled, "**Acceleration of incremental learning and decremental unlearning of Support vector machines**", (Commissioner of Australia Patents) Patent number: 2021101567, April 2021.



Dr. Kadambari. K.V



Ms. Lavanya Madhuri Bollipo



- **Suresh Periyannan**, and K. Balasubramaniam, US Patent no: US 11,022,502B2, Ultrasonic waveguide technique for distributed sensing and measurements of physical and chemical properties of surrounding media (Method), June 2021

Projects

- **Professor Shirish Sonawane** and **Dr. K.S. Rajmohan** has received a grant of **Rs. 276.80 Lakhs** {Industry Contribution: Rs. 182.0 Lakhs} to work on "Development of Electrically Conductive Adhesives for the Microelectronic Packaging and Flexible Film Circuits." In collaboration with Cosmo Films (Industry Partner) and IIT Ropar. The project duration is 3 years, and the funding agency: Ministry of Electronics & IT, Govt. of India **(MEIT)**, New Delhi. Dated 1st July 2021





- **Dr. Ram Krishan, Dr. Deepak Reddy Pullaguram, Dr. Sanjaya Kumar Panda, Dr. Venkateswara Rao Kagita**, were sanctioned a Project entitled "Dynamic and Static Security Analysis of Large Power System using High Performance Computing", Grant: **45 Lakhs, NSM-IISC Bangalore (DST).**











- **Prof. T. Kishore Kumar**, Professor, Department of ECE was sanctioned a Project entitled "Development of Novel Video/Image Compression Algorithms", **Rs. 9.8 lakhs (RCI-DRDO/CARS).**



- Dr. Amol Padwad (Ambedkar National University, Delhi), Dr. Krishna K. Dixit (Ambedkar National University, Delhi), Dr. Atanu Bhattacharya (Central University of Gujarat), **Dr. R. Vennela**, Assistant Professor, Department of H&SS, NITW were sanctioned a Project entitled "Textbooks in Historical times: Reviewing the Status of Historical Explorations", **Funded Rs.5.14 lakhs** (Hornby Trust, United Kingdom): 01.05.2021

- **Dr. Mahesh Kumar Talari**, Assistant Professor, Department of MME was sanctioned a Project entitled "Development of novel B and C modified fillers for the gas tungsten arc welding of Ti alloys", Aeronautics R&D Board, **DRDO, 48 Lakhs**, Feb. 2021

- **Dr. Nagamuthu Kishore Babu**, Assistant Professor, Department of MME was sanctioned a Project entitled "Understanding the Role of Hydrogen in Titanium Alloy Weldments", Aeronautics R&D Board**, DRDO, 48.24** Lakhs



- **Dr. S. Srinath, Prof. Shirish Sonawane, Dr Kishant Kumar** from the Department of Chemical Engineering and **Prof. P. Rathish Kumar**, Department of Civil Engineering were sanctioned a Project entitled "Effective Management of Process Slag from PCB smelting**" Funded (Rs. 10 Lakhs) by C-MET Hyderabad**. Dated 05-05-2021



- **Dr. Murali Mohan Seepana**, Assistant Professor, Department of Chemical Engineering was sanctioned a Project entitled "Tackling textile pollution using a 3D printed hybrid process**" Rs. 12.36 Lakhs by The Royal Society, UK**, IES\R1\201244 dated 30-03-2021



- **Dr. Seshagiri Rao Ambati,** Associate Professor, Department of Chemical Engineering and Dr. P. Sridhar Assistant Professor, Department of Civil Engineering were sanctioned a Project entitled "Development of Advanced Automatic Control based Wastewater Treatment Process towards Sustainable Water-Energy-Food Nexus", **DST Funding under Water Technology Initiative (WTI) scheme, Rs. 67.48 Lakhs**, 2021 - 2024.

Books/Book Chapters

- Syed Abu Sayeed Mohammed and **Arif Ali Baig Moghal** (2021). Nanomaterials-Based Solidification/Stabilization of metal-contaminated soils. Editor(s): Abdellatif Amrane, Dinesh Mohan, Tuan Anh Nguyen, Aymen Assadi; Nanomaterials for Soil Remediation. Amsterdam, Netherlands, pp. 385-407. ISBN: 978-0-12-822891-3. https://doi.org/10.1016/B978-0-12-822891-3.00018-9 (BOOK CHAPTER - SCOPUS Indexed)

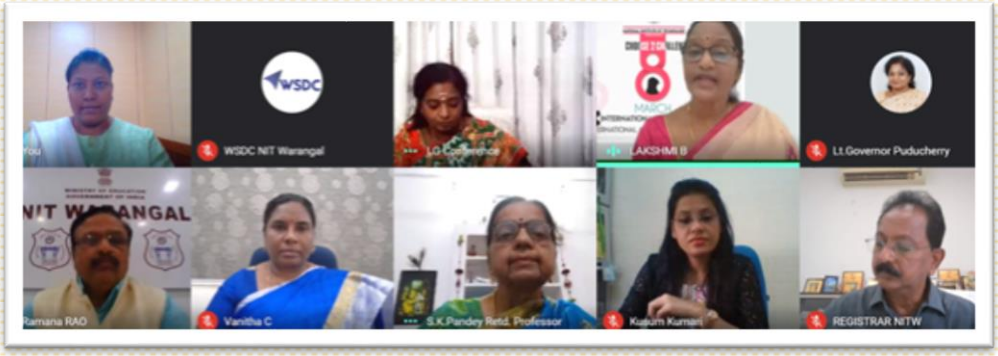
- Siva Prasad Y., Lalitha K., Sravya Chowdary A., Jugun Prakash C., **Nagarajan S**, (2021) Metals and Metal Complexes for Medicinal Applications (Chapter 3), S. Rajendran et al. (eds.), Metal, Metal Oxides and Metal Sulphides for Biomedical Applications, Environmental Chemistry for a Sustainable World 58, Springer, Cham
- Siva Prasad Y., Lalitha K., Thamizhanban A., Atul S., Muskan B., **Nagarajan S**, (2021) Application of Metal and Metal Oxides in Sustainable Synthesis and Biology (chapter 9), S. Rajendran et al. (eds.), Metal, Metal Oxides and Metal Sulphides for Biomedical Applications, Environmental Chemistry for a Sustainable World 58, Springer, Cham
- Burcu Adiguzel, **Altaf Q. H. Badar**, "Optimal Portfolio Selection with Particle Swarm Algorithm: An Application on BIST-30" in Applying Particle Swarm Optimization, Springer, 2021, 155- 167.
- **Altaf Q. H. Badar**, "Different Applications of PSO" in Applying Particle Swarm Optimization, Springer, 2021, 191- 208
- Editors: Dr. Rajeev Agrawal, Dr. Jinesh Kumar Jain, Dr. Vinod Singh Yadav, **Dr. Vijaya Kumar Manupati**, Dr. Leonilde Varela, Recent advances in Industrial Production - Select Proceedings of ICEM 2020, Springer Nature, 2020.
- Editors: Dr. Rajeev Agrawal, Dr. Jinesh Kumar Jain, Dr. Vinod Singh Yadav, **Dr. Vijaya Kumar Manupati**, Dr Leonilde Varela, Recent advances in Smart Manufacturing and Materials - Select Proceedings of ICEM 2020, Springer Nature, 2020.
- **V.K. Manupati** et al., (2021) "Development of Novel Framework for a Distributed Manufacturing System Process for Industry 4.0", Sustainable Manufacturing for Industry 4.0: An Augmented Approach, Taylor and Francis.
- Naga Ramesh Korasikha, Thopudurthi Karthikeya Sharma, **Gaddale Amba Prasad Rao** and Kotha Madhu Murthy, "Recent Advancements in Thermal Performance Enhancement in Microchannel Heatsinks for Electronic Cooling Application in the Book-Heat Transfer - Design, Experimentation and Applications [Working Title] edited by Dr. Miguel Araiz:Licensee IntechOpen
- Abhinay V., Krishna P S.V.S.S.R., Karthikeya Sharma T., **Ambaprasad Rao G.** "Experimental Analysis of Performance and Emissions of a Diesel Engine Fueled with Diesel–Water Emulsions" ,Advances in IC Engines and Combustion Technology. NCICEC 2019. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-15-5996-9_39
- **Rathish Kumar Pancharathi**, M.L.V.Prasad and K.L.Radhika (2021), "Stress Block Parameters of Confined Fibrous Recycled Self Compacting Concrete", Composites Science and Technology. Emerging Trends of Advanced Composite Materials in Structural Applications, 978-981-16-1687-7, 498865_1_En, (Chapter 8), Springer(Nature)Publishers

Conferences Organized

- An International Conference on "Women Empowerment in Science and Technology (ICWEST-2021)" (Virtual Mode) was organized by Women Cell, NIT Warangal on the occasion of International Women's Day 08-10 March 2021 sponsored by TEQIP III.

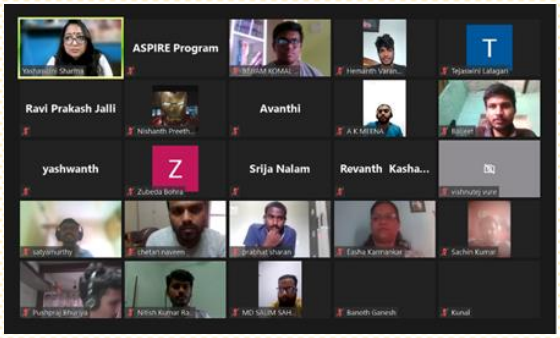
  Organizing Secretaries: **Dr. B. Lakshmi, Associate Professor, ECE, Dr. C. Vanitha, Associate Professor, MME, Dr. Kusum Kumari, Assistant Professor, Physics, Dr. B. Spoorthi, Assistant Professor, HSS**

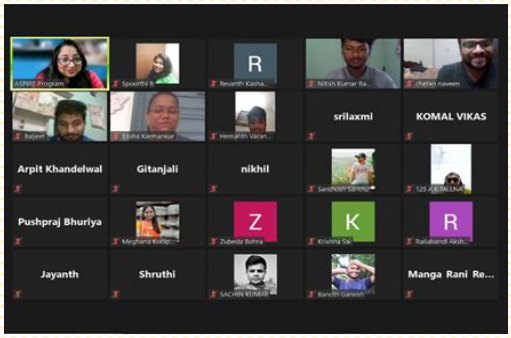
The Objective of the conference is to create a platform for bringing women together from different fields of science and technology to empower each other. This platform will be used to share innovative ideas, challenges faced and their experiences to move towards the vision of the theme of this conference, which is to empower women to envision themselves as exemplary and effective leaders in Science and Technology.



Student Training Programs

- **Dr. B. Spoorthi**, Assistant Professor, Department of H&SS is the Coordinator of ASPIRE (Augmented Summer Program for Interview Readiness and Employability) - organized as a part of Summer Training and Internship Program from 09-06-2021 to 08-07-2021 by Ambedkar Learning Centre and Centre for Career Planning and Development, NIT Warangal.





Faculty Development Programmes

- **Dr. Arif Ali Baig Moghal** and **Dr. Sudheer Kumar Yamsani**, jointly organized a 5-day short-term course on "Sustainable Engineered Waste Barrier Systems (SEWBS-2021)" from 8th to 12th March, 2021 in virtual mode at the Department of Civil Engineering, NIT Warangal.
- **Dr. Maheshwaram Satish**, **Dr.Gaurav Trivedi**, **PN Kondekar**, **Amit M Joshi**, **Bharat Gupta**, jointly organized a FDP on System Design Methodologies for Embedded, IoT, AI, & HPC using Intel FPGA,E&ICT,19-04-2021 to 30-04-2021
- **Dr. P. Srinivasan, Prof. V. T. Somsekar and Dr. A. Kirubakaran** "Effective Teaching and Learning of Modern Electric Drives" organized by the Department of Electrical Engineering in association with the Teaching Learning Centre, NIT Warangal during 15th - 20th March 2021.
- **Dr T Vinay Kumar**, organized a one-day online training programme for research scholars on "Fundamentals of Electrical Drive Controls and Implementation" organized by the Department of Electrical Engineering,

National Institute of Technology Warangal and Sponsored by Science and Engineering Research Board (SERB), Government of India on 05th March, 2021.

- A five-day online FDP on "Effective Teaching and Learning of Techniques for Monitoring, Protection and Control of Microgrids", NITW, Warangal, 18th - 22nd February 2021, coordinated by **Dr. Y. Chandrasekhar, Dr. Altaf Q. H. Badar and Prof. M. Sailaja Kumari**.
- **Dr. Soumya Lipsa Rath** coordinated a six days online FDP on "Protein-receptor Binding Chemistry" from 17.05.2021- 22.05.2021 sponsored by GSBTM, DST.
- **Dr. Perugu Shyam**, Coordinated a seven days online FDP on "Advances in Bioinformatics" from 10.05.2021 - 16.05.2021 organized by the Department of Biotechnology in association with Electronics & ICT Academy, NIT Warangal.
- **Prof. A. Sarath Babu** conducted a two day FDP on "Outcome Based Education" for the faculty of IIIT D&M, Kurnool and IIIT, Trichy during 10-11, June, 2021
- **Dr.Sujit Das** coordinated a 5 days online FDP on "Machine learning and optimization for uncertain decision making" from 05.03.2021 -09.03.2021organized under CCE, NIT Warangal
- **Dr. Ijjina Earnest Paul** coordinated a 5-day FDP on "Deep Learning and its Applications" from 26.04.2021 -30.04.2021
- **Dr.Ijjina Earnest Paul, Dr. Balaprakasa Rao Killi**, **Dr. Venkateswara Rao Kagita** coordinated a 5 day FDP on "Python for Scientific Computing " from 07.06.2021 -11.06.2021organized under CCE, NIT Warangal
- **Dr. V. Vasu** and **Dr. Shivraman**, coordinated an Atal -AICTE Five Day FDP on "Mechatronics & MEMS" was conducted during 5th to 9th July 2021.
- **Dr. Shashi Ram**, Organized a technical talk on "Life Cycle Phases of Contracts in Construction Technology and Project Management" by Mr. Rashid Hussain (Director, 3C (Corporate, Consulting, Contracting), Mumbai, Maharashtra) on 3rd April, 2021.

Invited Talks

- **Dr. Soumya Lipsa Rath** delivered a lecture on "Protein Secondary structures" in an Online FDP on Basics of Bioinformatics, Organized by E & ICT Academy, NITW in association with University College of Engineering BIT Campus on 27.05.2021
- **Dr. Soumya Lipsa Rath** delivered a lecture on "Ramachandran Plot and propensity" in an Online FDP on Basics of Bioinformatics, Organized by E & ICT Academy, NITW in association with University College of Engineering BIT Campus on 28.05.2021
- **Dr. Soumya Lipsa Rath** delivered an online lecture on "Molecular Modelling and Simulation" in the online FDP on "Protein-receptor Binding Chemistry" conducted by The MSU Baroda and NIT Warangal on 20.05.2021.
- **Dr. Chockalingam S** delivered an expert talk on "Creative Commons: the use of free materials and uploading documents with Creative Common licenses" in the workshop on "Effective online teaching and conducting examinations with Moodle LMS" conducted by NIT Silchar for the faculty members of NIT Silchar on 10.04.2021.

- **Dr. Perugu Shyam** delivered a lecture on "DNA Sequence analysis" in an Online FDP on Basics of Bioinformatics, Organized by E & ICT Academy, NITW in association with University College of Engineering BIT Campus on 26.05.2021
- **Dr. Perugu Shyam** delivered a lecture on "DNA Databases" in an Online FDP on Basics of Bioinformatics, Organized by E & ICT Academy, NITW in association with University College of Engineering BIT Campus on 27.05.2021
- **Dr. Perugu Shyam** delivered a lecture on "Protein Secondary structure prediction" in an Online FDP on Basics of Bioinformatics, Organized by E & ICT Academy, NITW in association with University College of Engineering BIT Campus on 29.05.2021
- **Dr. Perugu Shyam** delivered a lecture on "Protein structural classifications and contact maps" in an Online FDP on Basics of Bioinformatics, Organized by E & ICT Academy, NITW in association with University College of Engineering BIT Campus on 01.06.2021
- **Dr. Perugu Shyam** delivered a lecture on "Effect of Mutations on Human Life-SARS-CoVID-2" in an ONE DAY Webinar on Clinical awareness and Biotechnological interventions to combat COVID19, Organized by University Women's College, Osmania University, on 19.06.2021
- **Dr. Perugu Shyam** delivered a lecture on "The isolation, characterization of enzymes and its role in Human Diseases" in an National Webinar on Human diseases, Organized by TSWRDCW, Mahendra Hills, TS Govt on 19.06.2021
- **Dr. Perugu Shyam** delivered a lecture on "Identification and mapping of agricultural disease by using Machine Learning Approaches" in an International Workshop on Machine learning applications in Drug discovery: Basic to advanced, Organized by Vignan University, AP, on 26.05.2021
- **Dr. Perugu Shyam** delivered a eight lectures on "Advances in Bioinformatics" in an Online FDP on Advances in Bioinformatics, Organized by E & ICT Academy, NITW from 10.05.2021 to 16.05.2021
- **Prof. A. Sarath Babu** delivered an Expert Lecture on "Process Simulation" on 09-06-2021, organized by BV Raju Institute of Technology.
- **Dr. P. Sampath Kumar** delivered an invited talk on Energy Storage Devices in an "Online Workshop on Nano-electronic devices and their Applications" on March 24, 2021, IIIT Kalyani, West Bengal, India.
- **Dr. Seshagiri Rao Ambati** delivered an invited talk on Multi-model control of nonlinear systems, in an FDP titled Recent Trends in Control System Engineering organized by NIT Patna on June 2, 2021.
- **Dr. Seshagiri Rao Ambati** delivered an invited talk on Advanced control of wastewater treatment plants, in an FDP titled Recent Trends in Control System Engineering organized by NIT Patna on June 3, 2021.
- **Dr. Seshagiri Rao Ambati** delivered an invited talk on Modeling and control of biological wastewater treatment plants, in the Fifth PG Conference on Control Systems and Automation organized by PSG College of Technology, Coimbatore on April 24, 2021.
- **Dr. Murali Mohan Seepana** delivered an expert lecture on "Fuel Cell Technology: Evolution and Key challenges", in Faculty Development Program (FDP) on Fuel Cell Technology: Progress, Challenges and Future Prospects at Government Engineering College, Kozhikode from 22-27th March 2021.

- **P. Rathish Kumar**, Keynote lecture on "Development of framework for sustainable materials assessment – Way forward", in session-4 at the International Conference on "Sustainable Approach For Resilient Infrastructure (IC-SAFRI2021)" on 27-06-2021,Organised by Department of Civil Engineering, CBIT Hyderabad and Jointly with Centre for Innovative Construction Technology (CICT), Department of Civil Engineering, University of Malaya, Kuala Lumpur (Malaysia)
- **P. Rathish Kumar**, Invited Talk on "Selection of Sustainable Materials and Techniques for Repair and Rehabilitation of Structures" in the One Week AICTE Sponsored STTP on "Repair, Rehabilitation and Retrofitting Techniques of Reinforced Concrete structures." Phase-I, on 30th April 2021, organized by the Department of Civil Engineering, Srinivasa Ramanujan Institute of Technology, Anantapuram.
- **P. Rathish Kumar**, Expert Lecture on Concrete Mix Proportioning-Durability and Sustainability Issues in the Three-Day Executive Development Program on Planning, Design and Construction of Culverts and Bridges sponsored by NRIDA, Ministry of Rural Development, Government of India during 11-13 March 2021.
- **P. Rathish Kumar**, Keynote lecture on Condition Assessment and Revision on Non-Destructive Assessment of Structures in the Five-Day Online Faculty Development Programme on "Recent Trends and Advances of Thrust Areas of Research in Civil Engineering" During 1st - 5th March 2021, Department of Civil Engineering, REVA University.
- **P. Rathish Kumar**, Invited Talk on "Selection of Sustainable Materials and Techniques for Repair and Rehabilitation of Structures" in the One Week AICTE Sponsored STTP on "Condition Evaluation and Strengthening of Concrete structures." Phase-2, on 4th June 2021, organized by the Department of Civil Engineering, Srinivasa Ramanujan Institute of Technology, Anantapuram.
- **Prof. N V Umamahesh**, invited lecture on "Simulation Modelling" in AICTE Training and Learning (ATAL) FDP on "Engineering Optimization Techniques and its Applications (ENOTAA-2021)" held during 14-18 June, 2021 at College of Engineering, Aurangabad
- **Prof. N V Umamahesh**, invited talk on "Sustainable Urban Water Management under Changing Climate", Civil Tech Talk organized by Telangana Academy of Skill and Knowledge (TASK) on 27 April, 2021
- **Prof. N V Umamahesh**, invited talk on "Modelling Impact of Climate Change on Water Resources", FDP on Recent Trends and Advances of Thrust Areas of Research in Civil Engineering organized by Reva University, Bangalore on 2 March, 2021
- **Prof. N V Umamahesh**, invited talk on "Urban Flood Modelling", AICTE sponsored FDP on Advanced Computing in Civil Engineering organized by VNR Vignana Jyothi Institute of Engineering and Technology, 23.02.2021
- **Prof. N V Umamahesh**, invited talk on "Operational Flood Forecasting using Ensemble Weather Forecasting - A Review" in the Workshop on Use of Products from Ensemble Prediction Systems organized by National Centre for Medium Range Weather Forecast (NCMRWF) on 21.01.2021
- **Dr. Shashi Ram**, Expert lecture on "Green Buildings-Sustainable Materials for Energy Efficient Building" in the One Week Faculty Development Programme on "Recent Advances in Sustainable Development and Green Buildings (RASGB-2021)", organized by Department of Civil Engineering, Jayamukhi Institute of Technological Sciences, Narsampet, Warangal on 06th April, 2021.

- **Dr. Shashi Ram**, Guest lecture on "Impact of Green Building Materials", organized by Department of Civil Engineering, K. L. Deemed to be University, Andhra Pradesh on 22nd May, 2021.
- **Dr. Shashi Ram**, Invited speaker on "A step Towards Achieving Sustainable Development Goals Through Energy Efficient Buildings" in the third International Online Training Programme for Graduating and Alumni Students on "Sustainability and Advances in Built Environment" (SABE-2021)" organized by Department of Civil Engineering, Middle East College, Al Rusayl, Sultanate of Oman during 27th June - 07th July 2021.
- **Dr. Arif Ali Baig Moghal** Delivered Lecture for a 5 Day Faculty Development Program on "Recent Advancements in Geotechnical and Transportation Engineering" (RAGTE) titled "Role of Compaction Delay in Pavement Considerations" through Microsoft Teams Platform on 21 June 2021 (2.00 PM to 3.30 PM IST). Host Institute: Gudlavalleru College of Engineering Krishna District, Andhra Pradesh.
- **Dr. V. Ramana Murty**, Invited speaker on"Geotechnical Aspects and Investigations" in the second International Online Training Programme for Graduating and Alumni Students on "Sustainability and Advances in Built Environment" (SABE-2021)" organized by Department of Civil Engineering, Middle East College, Al Rusayl, Sultanate of Oman on 23-12-2020..
- **Dr. V. Ramana Murty**, Invited lecture on "Foundation Techniques in Expansive Soils" in online FDP on Shallow and Deep Foundations, Department of Civil Engineering, AU, Visakhapatnam on 5-2-2021.
- **Dr. V. Ramana Murty**, Invited lecture on "Stabilisation Methods for Low Volume Roads" in web seminar: PMGSY on 18-2-2021.
- **Dr. V. Ramana Murty**, Invited lecture on "Properties of soils for Pavements" in web seminar: PMGSY on 25-2-2021.
- **Dr. V. Ramana Murty**, Invited lecture on "Geotechnical Case Studies" in online STPP on Repair, Rehabilitation and Retrofitting Techniques of Reinforced Concrete Structures, Dept. of Civil Engineering, Srinivasa Ramanujan Institute of Technology, Anantapuramu, A.P. on 28-6-2021.
- **Dr. Deva Pratap**, Invited Lecture on Remote Sensing and GIS for Groundwater Prospects in AICTE - ISTE sponsored one week online FDP on Advanced Surveying and Instruments, Department of Civil Engineering, AISSMS Polytechnic, Pune on 01.03.2021.
- **Prof. K. Laxma Reddy**, Invited Lecture on "Environmental Issues and Challenges "delivered at Government Degree, and PG College for Women, Karimnagar on 17-4-2021
- **Dr S. Nagarajan** delivered a Guest address in 2nd National Conference on Future Perspective for Basic Sciences, NCFPBS-21 organized by the Department of Chemistry, VINAYAKA MISSION'S RESEARCH FOUNDATION, Chennai, Tamil Nadu on 08-4-2021
- **Dr. Sujit Das**, Optimization Techniques and its real life applications May 23, 2021,FDP on Data Science organized by E&ICT Academy, NIT Warangal and St. Joseph's College of Engineering, Chennai
- **Dr. Sujit Das**, Application of Data Science for Industry 4.0 April 30, 2021 Workshop on Industrial Mathematics with Data Science for Industry 4.0 organized by SRM Institute of Science and Technology, Chennai
- **Dr. Sujit Das**, Introductions to Fuzzy logic and Application of Fuzzy logic April 12, 14, 2021 FDP on Optimization Techniques for Engineering Applications organized by E&ICT Academy, NIT Warangal

- **Dr. Sujit Das**, Application of Optimization Techniques March 9, 2021 FDP on Machine learning and Optimization for uncertain decision making organized by CCE, NIT Warangal
- **Dr. Sujit Das**, Evolutionary Computation and Applications January 9, 2021 FDP on Data Science organized by E&ICT Academy, NIT Warangal and Veltech University
- **Dr. Earnest Paul Ijjina** delivered an expert lecture on "Human Action Recognition in Video using Deep Learning" in AICTE sponsored Faculty Development Program on Machine Learning in Computer Vision and Video Processing, organized by Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering and Technology on April 8 2021.
- **Dr. Earnest Paul Ijjina** delivered an expert lecture on "Auto Encoders and Computer Vision Applications" in Faculty Development Program on Deep Learning and AI Applications, organized by E & ICT Academy, NIT Warangal and Vasavi College of Engineering, Hyderabad on June 29 2021.
- **Dr. Earnest Paul Ijjina** delivered an expert lecture on "Auto Encoders and real time Applications" in Faculty Development Program on Deep Learning Algorithms Implementation in Cloud Technology, organized by E & ICT Academy, NIT Warangal and Malla Reddy Engineering College, Hyderabad on July 7 2021.
- **Prof. V. T. Somasekhar** acted as Resource Person for the AICTE Sponsored STTP on Automation and Intelligent Control of Electrical Systems Phase-IV (15th-20th March,2021)
- **Prof. M. Sailaja Kumari** delivered lecture on 'Universal Human Values' in the TLC workshop on "Effective Teaching and Learning of Techniques for Monitoring, Protection and Control of Micro grids" 18th – 22nd February, 2021.
- **Prof. M. Sailaja Kumari** delivered lecture on 'Universal Human Values' in the TLC workshop on "Effective Teaching and Learning of Power Converters for Electric Vehicles" during March 1st – 6th, 2021;
- **Prof. M. Sailaja Kumari** delivered lecture on 'Universal Human Values' in the TLC workshop on " Teaching and Learning of Power Converters and Control Techniques for Renewable Energy Systems " during 8-13 March'2021.
- **Prof. M. Sailaja Kumari** delivered lecture on 'Wind speed forecasting using ANN' in the TLC workshop on "Teaching and Learning of Power Converters and Control Techniques for Renewable Energy Systems", during 8-13 March'2021.
- **Prof. M. Sailaja Kumari** delivered lecture on 'Introduction to Smart Electric Grids' and ` Wind Speed Forecasting using ANN ` in the FDP on 'Soft Computing Applications in Smart Electric Grid', 16th – 25th June, 2021, Organized by, EEE Department, KLEF Deemed to be University Greenfields, Vaddeswaram, Guntur Dt., Andhra Pradesh, India In association with Electronics & ICT Academy National Institute of Technology, Warangal – 506004, Telangana State, INDIA
- **Dr.Ch. Ramulu**, invited talk- " Five-Day Online Faculty Development Program on "Recent Advances in Electrical Energy Management, Control and Automation", Department OF Electrical and Electronics Engineering, Lakireddy Bali Reddy College Of Engineering (Autonomous) Mylavaram – 521 230, 8th – 12th June, 2021.

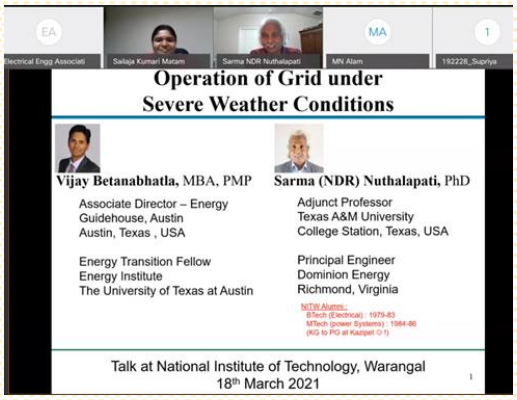
- **Dr. Ch Ramulu**, invited talk- "AICTE Sponsored Two Weeks Online Faculty Development Programme (FDP) ON Trends and Challenges in Power Converters and Control " Slot-II, Department Of Electrical And Electronics Engineering, College Of Engineering Guindy Anna University, CHENNAI-600025., 4th – 18th May, 2021.
- **Dr. Ch Ramulu**, invited talk- "AICTE Sponsored Two Weeks Online Faculty Development Programme (FDP) ON Trends and Challenges in Power Converters and Control " Slot-I, Department Of Electrical And Electronics Engineering, College Of Engineering Guindy Anna University, Chennai-600025., 9th – 23rd May, 2021.
- **Dr. Altaf Q. H. Badar** delivered invited talk titled "Energy Trading" in AICTE Sponsored Two Week online Faculty Development Program (FDP) on "Future Trends in Renewable Energy" (15-Feb-2021 to 28-Feb-2021) held at LNCT, Bhopal;
- **Dr. Altaf Q. H. Badar** delivered invited talk titled "Energy Trading in Smart Electric Grids" in E & ICT Sponsored Two Week online Faculty Development Program (FDP) on "Soft Computing Applications in Smart Electric Grid" (16-Jun-2021 to 25-Jun-2021) held at NITW, in collaboration with K L University.
- **Dr. Altaf Q. H. Badar** delivered invited talk titled "Research Analysis" in a Workshop on Research Methodology and Research & Publication Ethics (RM-RPE) conducted by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon;
- **Dr. K. Madhavi** delivered Expert talk on 'National Educational Policy Challenges and Implication in Humanities and Social Sciences' at S.B.Jain Institute of Technology Management & Research, (An Autonomous Institute, affiliated to R.T.M.Nagpur University)Nagpur on 17th June 2021.
- **Dr. K. Madhavi** delivered Expert talk on 'Technical Vocabulary and Language in Writing a Research Paper' on 7th July 2021, during the Online Short -Term Training Programme on 'Writing Quality Research Paper and Proposal' conducted by Applied Mathematics and Humanities Department, Sardar Vallabhbhai National Institute of Technology Surat organized from 6-10 July 2021.
- **Dr. B. Spoorthi** delivered a talk on 'ROW - Ethics and Values' in VIT School of Agricultural Innovations and Advanced Learning (VAIAL), Vellore Institute of Technology, Vellore on 22nd Jan 2020
- **Dr. B. Spoorthi** delivered a talk on 'Paradigm shifts in Education: Developments and the way forward' in College of Engineering, Trivendrum, Kerala on 2nd March 2021
- **Dr. B. Spoorthi** delivered a talk on 'Introduction to Education 4.0: Pedagogy for the GenZ and GenAlpha' in College of Engineering, Trivendrum, Kerala on 2nd March 2021
- **Dr. B. Spoorthi** delivered a talk on 'Tools and Applications for the Education 4.0 Classrooms' in College of Engineering, Trivendrum, Kerala on 3rd March 2021
- **Dr. B. Spoorthi** delivered a talk on 'Pedagogy for Hybrid Mode - a Hands-on Session' in College of Engineering, Trivendrum, Kerala on 3rd March 2021
- **Dr. B. Spoorthi** delivered a talk on 'Knowing self - Introspection & Reflection' in a Summer Training Program, ASPIRE, organised by CCPD & ALC, NIT Warangal on 16th June 2021
- **Dr. B. Spoorthi** delivered a lecture on 'Building a Personal Brand - First Impression' in a Summer Training Program, ASPIRE, organised by CCPD & ALC, NIT Warangal on 18th June 2021

- **Dr. P. Madhumathi** delivered a talk on 'Basics of Academic Writing for ESL Students' in Jain University, Bangalore on 21st April 2021.
- **Dr. Vijaya Kumar** Manupati delivered three days talk on FDP program Advances in Manufacturing Technology: Industry 4.0 organized by KIIT University, Bhubaneswar, ODISHA from 21st June to 23rd June, 2021.
- **Dr. Vijaya Kumar Manupati** delivered a key note talk on "Machine Learning – Introduction and Applications", on program "Industrial IoT", 09-06-2021, sponsored by ATAL Academy, Swami Keshvanand Institute of Technology, Management and Gramotham(SKIT), Rajastan, Kota, Jaipur.
- **Dr. Vijaya Kumar Manupati** delivered a key note talk on "Future Manufacturing Systems", Virtual Faculty Development Program - "Recent Innovations in Design and Manufacturing (RIDM) on 27th May, 2021", organized by Mallareddy Engineering College, Hyderabad.
- **Dr. Mahesh Kumar Talari**, MMED delivered Keynote talk on 27/01/2021- Light Metals and Alloys Physics and Materials Science International Symposium 2021, (PhyMaS 2.0) virtually organised by the Faculty of Applied Sciences, Universiti Teknologi MARA, Malaysia during 27/01/2021
- **Dr. Mahesh Kumar Talari**, MMED, delivered Guest Lecture on 29/03/2021- Welding of Aluminum Alloys, Two Week ONLINE Faculty Development Programme on "RECENT ADVANCES IN MATERIALS AND CHALLENGES IN MANUFACTURING TECHNIQUES" Sponsored by AICTE and organized by Department of Mechanical Engg, UCEK-JNTU Kakinada, AP during 22nd March- 3rd April 2021
- **Dr. Mahesh Kumar Talari**, MMED Delivered Guest Lecture on 30/03/2021- Aluminum metal matrix nanocomposites, Two Week ONLINE Faculty Development Programme on "Recent Advances In Materials And Challenges In Manufacturing Techniques" Sponsored by AICTE and organized by Department of Mechanical Engg, UCEK-JNTU Kakinada, AP during 22nd March- 3rd April 2021
- **Dr. Mahesh Kumar Talari**, MMED, delivered Guest Lecture on 19.04.2021- Additive Manufacturing Technologies,Five Days Online Faculty Development Programme (FDP) on "METALLURGICAL ASPECTS IN ADDITIVE MANUFACTURING" organized by Department of Metallurgical and Materials Engineering, NIT Andhra Pradesh during 19th – 23rd April 2021
- **Dr. Nagumothu Kishore Babu**, MMED,delivered Guest Lecture on 01/04/2021- Welding of Titanium Alloys,Two Week ONLINE Faculty Development Programme on "Recent Advances In Materials And Challenges In Manufacturing Techniques" Sponsored by AICTE and organized by Department of Mechanical Engg, UCEK-JNTU Kakinada, AP during 22nd March- 3rd April 2021.
- **Dr. Sukla Mondol**, MMED, delivered invited talk on " Basics of TEM imaging" 9 am-10.30 am 27/03/202,QIP-AICTE sponsored Online Short-term Course on "Materials Characterization Techniques" Organized by IIT Indore, 22nd-27th March, 2021
- **Dr. Sourabh Roy**, "Manual/ automatic grading of tests and assignments using Rubrics leading to final automatic grading of a course", Workshop on Effective online teaching and conducting examination using Moodle LMS, NIT Silchar
- **Dr. D. Paul Joseph** - WEBINAR - Thin Films and Nanomaterials for Modern Technology, Faculty Development Program, 5th May, 2021, St. Xavier's College, Mahuadanr, Jharkhand.

- **Dr. D. Paul Joseph** - WEBINAR - Career Guidance for M.Sc Students of P.G. Dept. of Physics, St. Joseph's College of Arts and Science (Autonomous) Cuddalore, Tamilnadu, 607001 on 28th May 2021.
- Invention to Innovation: Special Focus on How to Safeguard Your Ideas - **Dr D Haranath** - WEBINAR - UGC-STRIDE (I) Project, Bundelkhand University, Jhansi on 12th April 2021.
- Intellectual Property Rights and its Process for Academicians - **Dr D Haranath** - WEBINAR on the Occasion of World IP Day 2021 - VIT University AP, on 26th April 2021.
- **Dr. D Haranath**, Extraction of Latent Fingerprints using Afterglow Materials for Forensic Applications - International Virtual Conference on Materials and Nanotechnology organized by Guru Nanak College of Science, Ballarpur on 30th April 2021.
- Phosphor Aerogel: A Novel Process to Design Nanophosphor Particles with Narrow Size Distribution - **Dr D Haranath** - National Webinar cum Workshop on Luminescence Applications and Materials (NWWLAM-2021) Organized by Luminescence Society of India, Gujarat on 25th June 2021.
- **Dr. Chandramohan V.**P delivered a talk on "CFD and its applications of few solar energy-based systems" in the Virtual "International Conference on Technological Advancements in Mechanical Engineering (ICTAME 2021)" held on 15th & 16th June 2021 organized by Department of Mechanical Engineering, Academy of Maritime Education and Training (AMET), Deemed to be University, Chennai, Tamilnadu.
- **Sangharatna Godboley**, Presented a talk at 2nd KLEE Workshop London on the work titled "The KLEEMA Prototype". Sangharatna Godboley, Monika Rani Golla, Arpita Dutta
- **Dr. P. Ravi Kumar**, Professor, Department of Physical Education as a Resource Person delivered a Lecture on "Promoting Excellence in Physical Education and Sports through Innovation in Teaching and Learning" during online FDP organized by Guru Angad Dev – Teaching Learning Centre of Ministry of Education, Sri Guru Tegh Bahadur Khalsa College and University of Delhi on 01-06-2021.
- D**r. P. Ravi Kumar**, Professor, Department of Physical Education as a Resource Person delivered a Lecture on "Capacity Building / Personal Effectiveness" during online FDP **"PEASE – 2021"** sponsored by AICTE – ATAL Academy Program at NIT, A.P., on 28-06-2021.
- **Dr. Prakash Kodali**, Webinar talk on "New Frontiers of Bioelectronics & IoT" date 12-06-2021 at Department of Electrical Electronics & Telecommunication Engineering, DRIMES POLYTECHNIC College, Tangi, Cuttack, Odisha.
- **Dr. Prakash Kodali,** Invited lectures for the STTP sponsored by AICTE - FDP titled "Recent Trends in VLSI Nanoelectronics for IoT Applications" dated on 26-3-2021 to 27-3-2021 in Department of Electronics and Communication Engineering, Malla Reddy College of Engineering, Hyderabad.
- **Dr. Srikanth Korla**, delivered a talk on "Nano generators and piezoelectric energy harvesting", Malla Reddy College of Engineering, Hyderabad, 27-03-2021.
- **G.Amba Prasad Rao** Online Course "SAEINDIA Professional Development Program on Conventional, Hybrid and Electric Powertrains" SAE India, Chennai Mr.Vijay Raghavan Online 25-01-2021 30-5-2021 2020-21

- **G.Amba Prasad Rao** Online Course "Evidence based Teaching and Learning Strategies in Higher Education" CREATES, IISER Bhopal Dr.Yogesh Velankar Online, 2021

Guest Lectures by Foreign experts



- **Dr. Sarma (NDR) Nuthalapati**, Ph.D. Adjunct Professor Texas A&M University College Station, Texas, USA and Vijay Betanabhatla, MBA, PMP Associate Director – Energy Guide house, Austin, Texas, USA jointly delivered on 'Power System Grid Operations under Severe Weather Conditions' in association with Electrical Engineering Association (EEA) and Department of Electrical Engineering under Electrical Engineering Industry Lecture Series.
- **Prof. Philip Russel** (Director, Max Planck Institute for the Science of Light, Germany): "Photonic Crystal fiber", 11/03/2021. Organized by SPIE Student Chapter, NITW
- **Prof. Sile Nic Chormaic** (Okinawa Institute of Science and Technology, Japan): "Particle trapping and spectroscopy using ultrathin optical fibres and whispering gallery resonators", 09/04/2021. Organized by SPIE Student Chapter, NITW
- **Prof. Elsa M. Garmire** (First PhD student of Prof. Charles Townes, the 1964 Nobel laureate and inventor of the laser): "Old Fashioned Creativity: Chandrasekhara Venkata Raman, Charles Townes and you", 16/05/2021, Organized by SPIE Student Chapter, NITW

Achievements

- **Dr. Seshagiri Rao Ambati** joined as Associate Editor of CPPM on June 10th 2021, It is a quarterly journal published by De Gruyter since 2006 and it covers theoretical and applied research on the product and process design, modeling, simulation, and optimization.

- **Prof. K. V. Jayakumar** is now Professor Emeritus of the Department of Civil Engineering.



- Science Communication, Popularization and Extension (SCOPE) project preliminary meeting held on 8-4-2021 at IICT, Hyderabad, Jointly organized by Vigyan Prasar (DST), NIT Warangal and IICT, Hyderabad: **Chief Guest: Prof N. V. Ramana Rao, Director,** coordinated by: **Prof. A. Ramachandraiah, Nodal Officer, RAA & Prof. K. Laxma Reddy, Director, Vigyan Prasar**, Director, IICT, Vice-Chancellor, HCU graced the occasion



- **Dr Shirish Sonawane** joined as visiting researcher to Gdansk Technological University Poland under the National academy of Poland Fellowship (NAWA) program. He is working in research group of prof. Grzegorz Boczkaj from the Department of Process Engineering and Chemical Technology
- **Sangharatna Godboley**, our tool Tracer-X Secured 2nd Rank in RERS (Rigorous Examination of Reactive Systems (RERS))-2020, (a world level Software Testing Tool Competition co-located with ISOLA2020 Greece) (The RERS Challenge 2020 (rers-challenge.org))
- **Sangharatna Godboley**, Our tool Tracer-X Secured 6th Rank in TestComp-2021, 3rd Intl. Competition on Software Testing held at FASE 2021 in Luxembourg. (World level competition)tracerx.results.Test-Comp21.All – BenchExec results (sosy-lab.org)



- **Sangharatna Godboley**, Convener, 13th National Workshop on RECENT TRENDS IN SOFTWARE TESTING (RTST - 2020) from 21st –25th December 2020 organized by Department of Computer Science and Engineering, National Institute of Technology Warangal.
- **Sangharatna Godboley**, Appointed as Virtual Conference Management Chair and Publicity Chair, 14th Innovations in Software Engineering Conference 25 - 27 February 2021 KIIT - Deemed to be University, Bhubaneswar.ISEC 2021 - KIIT Deemed to be University, Bhubaneswar (acm.org)
- **Sangharatna Godboley**, Joxan Jaffar, Rasool Maghareh, Arpita Dutta, Toward Optimal MC/DC Test Case Generation, 30th ACM SIGSOFT International Symposium on Software Testing and Analysis (ISSTA), 2021 (Core-A)

- **Sangharatna Godboley** received all three ACM badges **Artifact Available, Functional, and Reusable Badges** in Artifact Evaluation track at 30th ACM SIGSOFT International Symposium on Software Testing and Analysis (ISSTA), 2021 (Core-A) for the accepted paper "Toward Optimal MC/DC Test Case Generation".
- **Sangharatna Godboley** contributed to work titled "Tracer X: Dynamic Symbolic Execution with Interpolation" presented at 2nd KLEE Workshop London. Joxan Jaffar, Rasool Maghareh, Sangharatna Godboley, Xuan-Linh Ha.
- **Sangharatna Godboley**, Co-Convener for Training Programme on Python Boot Camp (February 22, 2021 to March 5, 2021) for DRDO organized by E&ICT NITW.
- **Dr. G Siva Kumar**, Assistant professor, EED was invited to be a Editorial Board Member of Global Journal of Energy Technology Research Updates in the field of Energy Research from March 2021
- "Active and Reactive Power Control of Grid Tied Asymmetrical MLI based PV System with Reduced Switching Frequency", by Hareesh Myneni, A Pranay Kumar, Somnath A. Mandale, and **Dr. G. Siva Kumar**, has been awarded as a Best Paper in the session and the track of the 2nd Electric Power and Renewable Energy Conference (EPREC-2021), 28th-30th May 2021, organized by the Department of Electrical Engineering, NIT Jamshedpur, and Proceedings Publish in Springer.
- **Dr. Altaf Q. H. Badar** was invited as Session Chair at IEEE International Conference for Intelligent Technologies (CONIT) 2021, Hubbali, 26/06/2021
- **Prof. V. T. Somasekhar** attended the Board of Studies meeting to decide the course structure and syllabus for the Department of Electrical & Electronics Engineering on 17th April, 2021 for CBIT, Hyderabad
- **Prof. V. T. Somasekhar** attended the Board of Studies meeting to decide the course structure and syllabus for the Department of Electrical & Electronics Engineering on 22nd May, 2021 for KITS, Warangal
- **Prof. M. Sailaja Kumari**, is a coordinator for the Faculty Development Programme (FDP) on 'Soft Computing Applications in Smart Electric Grid', 16th – 25th June, 2021, organized by EEE Department, KLEF Deemed to be University Greenfields, Vaddeswaram, Guntur Dt., Andhra Pradesh, India in association with Electronics & ICT Academy (Sponsored by Ministry of Electronics and Information Technology (MEITY), GOI) National Institute of Technology, Warangal – 506004, Telangana State, INDIA
- **Dr. G Siva Kumar**, Assistant professor, EED is a session Chair for the International Conference on Sustainable Energy and Future Electric Transportation (SeFet) 2021, 21-23 Jan 2021 organized by GRIET Hyderabad and technical co-sponsorship from IEEE Hyderabad section
- **Dr. G Siva Kumar**, Assistant professor, EED is a technical Track Chairs/Co-Chairs for the International Conference on Sustainable Energy and Future Electric Transportation (SeFet) 2021, 21-23 Jan 2021 organized by GRIET Hyderabad and technical co-sponsorship by IEEE Hyderabad section
- **Dr. Altaf Q. H. Badar** acted as a Ph.D. Reviewer (RTMNU, VIT), and Reviewer of IEEE Access Journal
- **Dr.K.Madhavi** was invited as a member BOS meeting, at, JNTUK Vizianagaram, on 21-05-2021.
- **Dr. R. Vennela**, reviewer for the scopus indexed international journal 'Current Issues in Language Policy'.
- **Dr. R. Vennela**, conducting a 6month (Jun - Dec 2021) research training program for school teachers in Warangal district on the topic of 'Designing Applied Projects in English Language Teaching'.

- **Prof. Debashis Dutta** has Reviewed Two papers (ID 004 & ID005) in May-2021 for Springer Publication in the proceedings of " International Conference on Mathematical Modelling and Computational Intelligence Techniques (ICMMCIT-2021)" held at GRI, Tamilnadu during Feb 10-12,2021
- **Prof. Debashis Dutta** has reviewed a paper (ID ro200538) for the journal RAIRO- Operations Research (France) on April-2021.
- **Dr. Ch. Ramreddy** has attended BOS Meeting (Online) for NSRIT (Autonomous Institute), Sontyam (Affiliated to JNTUK Kakinada) Jan 11, 2021.
- **Prof. Debashis Dutta** has attended BOS Meeting (Online) for GITAM University (Visakhapatnam) on Apr 26, 2021.
- **Prof. Debashis Dutta** has attended BOS Meeting (Online) for KLEF (Vijayawada) on May 22, 2021.
- **Dr. Chandramohan V.P.** Chaired in the session for paper presentation in the Virtual "International Conference on Technological Advancements in Mechanical Engineering (ICTAME 2021)" held on 15th & 16th June 2021 organized by Department of Mechanical Engineering, Academy of Maritime Education and Training (AMET), Deemed to be University, Chennai, Tamilnadu.
- **Dr Vijaya Kumar Manupati**, Assistant Professor Editor: Special Issue on: "Industry 4.0 and Sustainable Manufacturing" Call for Papers: International Journal of Advanced Operations Management (Scopus Indexed).
- **Dr. Vijaya Kumar Manupati**, Scientific Committee Member/Program Committee member:
    - Scientific Committee Member, International Conference on Reliability Systems Engineering (ICoRSE)Sep, 2021, Romania.
    - Steering Committee Member, International Conference on Reliability Systems Engineering (ICoRSE)Sep, 2021, Romania.
- **Dr. K. Lakshminarayana**, session chair for International Conference on Enterprise Information Systems, April 2021
- **Dr. Brahma Raju** received reviewer Appreciation Certificate for the excellent review of a manuscript (April 2021) from Transactions of The Indian Institute of Metals.

Student Achievements

- B. Tech IV year project students (**Mr. Sai Ganesh and Mr. Chinni Dheeraj**) under the guidance of Dr. R. Padmavathy published a chapter with title "A Deep Learning Framework to Preserve Privacy in Federated (Collaborative) Learning" in a book Artificial Intelligence for Cyber Security: Methods, Issues and Possible Horizons or Opportunities, Springer.

- The B.Tech. CSE IV Year student project team - **Harshith, Saketh**, and **Jithendra** under the guidance of **Prof. Radha Krishna**, presented an Early Stage Research idea titled 'Multiheaded Hierarchical Encoder-Decoder for Analyzing Multimodal Conversations' at the IEEE Cloud Computing in Emerging Markets (CCEM)'s Pre-conference Workshop. The paper focuses on improving multimodal conversations by using state-of-the-art techniques from Natural Language Processing fields. The team leveraged multiheaded attention and

sentence embeddings to create a model that better handles longer conversations with more accurate responses. The project was awarded the 'First Prize' with a cash prize in early stage Research Paper Track of the PCW.


IEEE

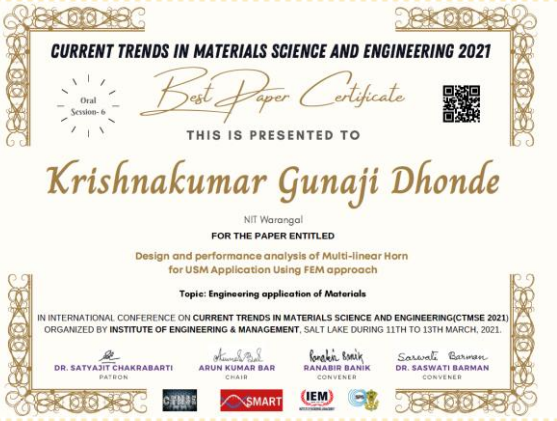
International Conference on Cloud Computing in Emerging Markets, 2021
Pre- Conference Workshop
27th of February, '21.

Proudly presents the 'First Prize' in Early Stage Research Paper Track
to
Harshith Belagur, Saketh Reddy, Bathini Jithendra and Prof. P Radha Krishna
National Institute of Technology, Warangal,
for authoring the Paper, titled:
'Multiheaded Hierarchical Encoder Decoder for Analyzing Multimodal Conversations'.

Dr. Gopal Pingali, Steering Committee Chair | Dr.T.S.Mohan, Steering Committee Chair | Raj Tumuluri, General Chair | Sreekrishnan Venkiteswaran, General Chair | Sanjay Chitnis, General Chair



- **Krishna Kumar Gunaji D.**, M.Tech (Design) working under the guidance of **Dr. P. Suresh**, Assistant Professor, MED has received the Best paper award.


CURRENT TRENDS IN MATERIALS SCIENCE AND ENGINEERING 2021

Oral Session- 6

Best Paper Certificate

THIS IS PRESENTED TO

Krishnakumar Gunaji Dhonde

NIT Warangal

FOR THE PAPER ENTITLED

Design and performance analysis of Multi-linear Horn for USM Application Using FEM approach

Topic: Engineering application of Materials

IN INTERNATIONAL CONFERENCE ON CURRENT TRENDS IN MATERIALS SCIENCE AND ENGINEERING(CTMSE 2021) ORGANIZED BY INSTITUTE OF ENGINEERING & MANAGEMENT, SALT LAKE DURING 11TH TO 13TH MARCH, 2021.

DR. SATYAJIT CHAKRABARTI, PATRON | ARUN KUMAR BAR, CHAIR | RANABIR BANIK, CONVENER | DR. SASWATI BARMAN, CONVENER

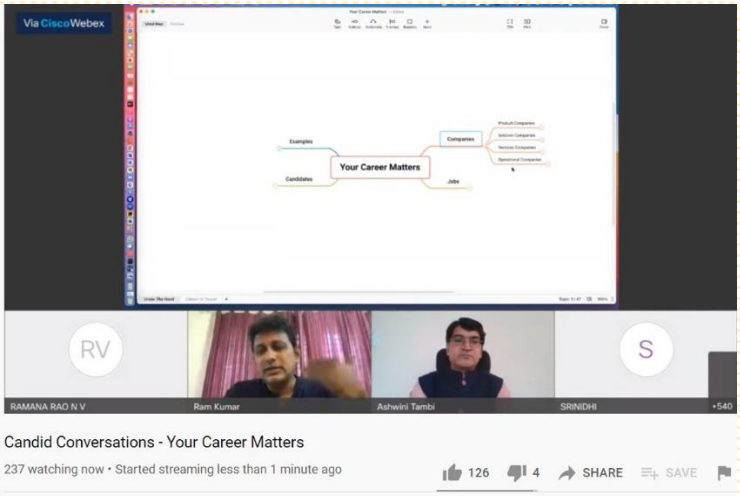
Mr. Sarkar bags third prize in an All India Competition organized by AIMA

School of Management feels glad to share the achievement by I Year MBA student **Mr. Shubhabrato Sarkar**. In the All India Case study competition conducted by AIMA (All India Management Association), he secured third prize among tough competition from IIMs, IITs and NIT students in the top 15 during the last round and **won Rs.25,000 prize money**

Candid Conversations (CCPD)

NITWAA, Bangalore chapter in association with CCPD, NIT Warangal conducted Candid Conversation on ' Your career Matters' on 3rd July 2021. This webinar is conducted to share the experiences of Alumni on career matters. Prof. N V Ramana Rao is one among the panelists along with Mr. Sinidihi, Founder and MD, Geodesic; Mr. Ramkumar, Founder and Director, Bhea Technologies; Mr. Aswini Tambi, Founder and chief career mentor, Career ACER; Mr. Venkatesh, Consultant, Business and Manufacturing Development. Nearly 600 are Students participated in the webinar.





Low Cost Touchless Sanitizer dispenser (table top and wall mounted)

A low cost touchless sanitizer dispenser has been developed by V Sudhakar, a technical assistant in the Electronics and Communication Engineering (ECE) department at National Institute of Technology, Warangal (NITW). The sanitizer is designed in two versions: table top and wall mounted for usage in offices and public places. The sanitizer dispenser is based on the ultrasonic sensor microcontroller and LED solenoid theory, it can be made available for just Rs 800 while other products with the same specifications in the market are priced at Rs 2,000.



Table top low-cost touchless sanitizer dispenser

Low cost foot-operated Sanitizer dispenser

A low-cost foot-operated sanitizer dispenser with waste material has been developed by V Sudhakar, a technical assistant in the Electronics and Communication Engineering (ECE) department at National Institute of Technology, Warangal (NITW). The foot-operated sanitizer stand costs less than Rs 300. It is made of waste PVC pipes.



Low cost foot-operated Sanitizer

In News

చూడచక్కని నిట్ అడవి

- సాంకేతిక సంస్థలో మియావాకి వనం
- రెండు వేల చెట్లతో దట్టంగా అడవి
- హరితహారం స్ఫూర్తితో మొక్కల పెంపకం
- రాష్ట్ర అటవీ శాఖ సహకారంతో అభివృద్ధి

8లో

5లో



నిట్‌లో మియావాకి పద్ధతిలో పెరిగిన చిట్టడవి

అది విద్యార్థులకు సాంకేతిక మేధస్సునందించే ఆలయం. వరంగల్ నగరానికి తలమానికంగా ఉన్న ఈ జాతీయ స్థాయి సాంకేతిక ఉన్నత విద్యా సంస్థ. రాష్ట్ర ప్రభుత్వం అమలు చేసిన హరితహారం స్ఫూర్తితో ఇప్పుడు పచ్చగా మారింది. 2019లో చేపట్టిన మియావాకి విధానం ద్వారా నిట్ ఆవరణలో చిట్టడవి రూపుదిద్దుకుని ఆహ్లాదం పంచుతున్నది.

– వరంగల్, మే 7 (నమస్తే తెలంగాణ ప్రతినిధి)

ఈనాడు
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తక్కువ వ్యయంతో టచ్‌లెస్ శానిటైజర్ యంత్రం

వడ్డేపల్లి, న్యూస్‌టుడే: జాతీయ సాంకేతిక విద్యా సంస్థ (ఎన్‌ఐటీ) తనీఖీ విభాగానికి చెందిన టెక్నికల్ ఆసిస్టెంట్ వి.సుధాకర్ అతి తక్కువ ఖర్చుతో టచ్‌లెస్ శానిటైజర్ పరికరాన్ని ఆవిష్కరించారు. ఆల్ట్రాసోనిక్ సెన్సార్ మైక్రో కంట్రోలర్, ఎల్‌ఈడీ, సోలినోయిడ్‌లతో రూపొందించిన ఈ రసాయనం అంటుకోకుండా (టచ్‌లెస్) చేతులు పెట్టగానే సెన్సార్ ద్వారా కిందకు జారుతుంది. మార్కెట్లో ఇలాంటి శానిటైజర్ పరికరం రూ.2 వేల వరకు ఉండగా, ఇది రూ.800 అందుబాటులో ఉంటుందన్నారు. కరోనా మమమ్మారి రెండో దశలో ఈ యంత్రాన్ని తయారు చేసిన సుధాకర్‌ను నిట్ సంచాలకుడు ఆచార్య ఎన్.వి.రమణారావు, నిట్ రిజిస్ట్రార్ ఎస్.గోవర్ధన్‌రావు అభినందించారు.



సుధాకర్‌ను అభినందిస్తున్న నిట్ సంచాలకుడు ఆచార్య ఎన్.వి.రమణారావు

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సైన్స్ ఆవిష్కరణలను ప్రజానికంలోకి తీసుకెళ్లాలి

మనతెలంగాణ/తార్నాక : సైన్స్‌ను ప్రజల్లోకి తీసుకెళ్లెందుకు కేంద్ర ప్రభుత్వ శాఖ,సాంకేతిక శాఖ ఆధ్వర్యంలో విజ్ఞాన ప్రసార్ అనే కార్యక్రమాన్ని చేపడుతుంది. తెలుగులో స్కోప్(సైన్స్ కమ్యూనికేషన్, పాపులరైజేషన్ అండ్ ఎక్సటెన్షన్) పేరుతో వరంగల్‌లోని ఎన్‌ఐటి,ఐఐటి హైదరాబాద్, తెలంగాణ అకాడమి ఆఫ్ సైన్స్‌స్ సంయుక్తంగా ఈ కార్యక్రమాన్ని నిర్వహిస్తున్నయి. ఇందులో భాగంగా గురువారం తార్నాక ఐఐసిటిలో ప్రొ.రామచంద్రయ్య, ప్రొ.లక్ష్మారెడ్డి, ప్రొ.బివిఎన్‌రెడ్డి సమన్వయంలో ప్రాధమిక సమావేశాన్ని నిర్వహించారు.ఈ కార్యక్రమానికి ముఖ్యఅతిదులుగా వరంగల్ నిట్ డైరెక్టర్ ప్రొ.రమణరావు,విజ్ఞాన ప్రసార్ డైరెక్టర్ డా.నకుల్ పరాశర్,సెంట్రల్ యునివర్శిటి వీసి ప్రొ.అప్పారావు,సిసిఎంబి మాజీ డైరెక్టర్ సిహెచ్. మోహన్‌రావు,ప్రముఖ శాస్త్రవెత్త డా.టివి.వెంకటేశ్వరన్ తదితరులు హాజరయ్యారు. ఈ సందర్భంగా వారు

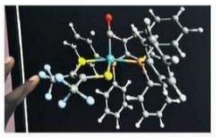


మాట్లాడుతు ప్రజల్లోకి సైన్స్‌ను తీసుకెళ్లాలని,అందుకోసం పని చేస్తున్న సంస్థలు,వ్యక్తులు ఓక నెట్‌వర్క్‌గా ఎర్పడి స్థానిక భాషల్లో సైన్స్ అవిష్కరణలను ప్రజానీకంలోకి తీసుకెళ్లడానికి కృషి చేయాలన్నారు.సైన్స్ ఫలాలను ప్రజానీకానికి చేరవేయడంలో స్థానిక భాష,కార్యకర్తలు, నెలవారిగా ప్రచురించే మ్యాగజైన్‌లు,సైన్స్ ప్రచురణలు, డాక్యుమెంటరీలతో పాటు ప్రజాకళలు, మీడియా ప్రదాన పాత్ర పోషిస్తాయని తెలిపారు.

మన హైదరాబాద్ Fri, 09 April 2021
https://epaper.manatelangana.news/c/59662876

మూడో దశలో హైబ్రిడ్ వేరియంట్

- 13 పట్టలోపు పిల్లలపై ప్రభావం
- దద్దుర్లు, కళ్ల కింద మంటలు, శ్వాస సమస్యల వంటి లక్షణాలుంటాయి
- వరంగల్ నిట్ అధ్యయనంలో వెల్లడి



కుప్పుసామి తెలిపే కరోనా స్వైరవిహారం

ఈనాడు, వరంగల్: కరోనా మూడో దశలో హైబ్రిడ్ వేరియంట్ వ్యాప్తి చెందే ప్రమాదం ఉందని తమ అధ్యయనంలో వెల్లడైందని వరంగల్‌లోని నేషనల్ ఇన్‌స్టిట్యూట్ ఆఫ్ టెక్నాలజీ (ఎన్‌ఐటీ) బయోటెక్నాలజీ సహాయ ఆచార్యుడు పెరుగు శ్వాం వెల్లడించారు. కొవిడ్ వైరస్ స్పైక్ ప్రోటీన్‌ను ఎప్పటికప్పుడు మార్పు కోవడం వల్లే రకరకాల స్ట్రెయిన్లు పుట్టుకొస్తున్నాయని పేర్కొన్నాడు. కేంద్ర ప్రభుత్వం మంజూరు చేసిన రూ.2 కోట్ల నిధులతో నిట్‌లో ఏర్పాటైన కొవిడ్ పరిశోధన క్రమంపై విస్తృత పరిశోధనలు జరుగుతున్నాయన్నారు. ఇప్పటివరకు తెలుగు రాష్ట్రాల్లో సుమారు 40 రకాల స్ట్రెయిన్లను గుర్తించగా, వీటిలో 20 రకాల్లో నిట్‌లో అధ్యయనం చేస్తున్నట్లు వెల్లడించారు. వైరస్ మ్యుటేషన్ల పెరగడంతో మొదటి దశ కన్నా రెండో దశలో ఎక్కువ ప్రభావం చూపుతోందన్నారు. త్వరలో మూడో వేవ్‌లు దీనికి మందులు పూర్తి స్థాయిలో బయటికొచ్చే పోతున్నారన్నారు. అందుకే ఇప్పటికే అందుబాటులో ఉన్న 500 రకాల ఔషధాల పనితీరుపై నిట్‌లో ఏర్పాటు చేసిన అధ్యయనం చేస్తూ పరిశోధనల వెల్లడిస్తున్నామని చెప్పారు.

అప్రమత్తత అవసరం



పెరుగు శ్యాం

రాబోయే పర్యాటనంలో పిల్లలు ఎక్కువగా జబ్బుబు, దగ్గు, దయోరియా బారిన పడే ప్రమాదం ఉన్నందున ప్రజలు అప్రమత్తంగా ఉండాల్సిన అవసరం ఉందని శ్యాం సూచిస్తున్నారు. రెండో వేవ్‌లో కొవిడ్ తగ్గినా అనుమానాలు ఉండటంతో చాలామంది పిల్లలను బయటకు తీసుకొచ్చకుండా జాగ్రత్తపడుతున్నారు. పైన పేర్కొన్న లక్షణాలేవి కనిపించినా వెంటనే వైద్యులను సంప్రదించాలని సూచించారు. వీలైనంత త్వరగా అర్హులైన అందరికీ టీకాలు అందేలా చూడటం వల్ల వైరస్ ప్రభావం తక్కువగా ఉంటుందన్నారు. అలా క్రమంగా వైరస్‌ను కట్టడి చేయొచ్చని శ్యాం అభిప్రాయపడ్డారు.

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శనివారం జులై 10, 2021



ఇది నిట్ అడవి

ఒకప్పుడది వరంగల్ జాతీయ సాంకేతిక సంస్థ(ఎన్‌ఐటీ)లోని బాళీ ప్రాంతం.. చిన్నచిన్న మొక్కలు మాత్రం కనిపించేవి. నేడదే ప్రాంతంలో చిట్టడవి పుట్టింది. పచ్చని చెట్లతో ఆహ్లాదం పంచుతోంది. జపనీస్ శైలి 'మియావాకి' విధానంలో వేగంగా మొక్కల పెంపకానికి వీలుగా 2019 ఆగస్టు 15న నిట్ సంచాలకుడు ఆచార్య ఎన్‌వీ రమణారావు, సంస్థ సిబ్బంది, విద్యార్థులు కలిసి బృహత్తర కార్యక్రమానికి శ్రీకారం చుట్టారు. క్యాంపస్ పరిసరాల్లోని 4 ఎకరాల్లో మొక్కలు నాటారు. నేడు అవన్నీ ఏపుగా ఎదిగి వృక్షాలుగా మారాయి. చిట్టడి నీడనిస్తూ పచ్చందాలతో ఆకట్టుకుంటున్నాయి. – ఈనాడు వరంగల్

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