

# THE BEACON RAY

A quarterly newsletter of NIT Warangal



## FOREWORD

Dear Friends,

Hope all of you and your family are doing well.

The Institute is slowly recovering from the COVID-19 impact. I am very happy that all the academic activities including the classwork started in offline mode. However, the threat of COVID is still not yet over. I request all the students and staff to strictly follow the COVID-19 protocols issued by the Government authorities.

It has been almost two years since the campus is vacated by the students. Now, the campus has become live and is reverberating with varieties of activities with the return of the students to the campus. A number of clubs and associations including the SPIC MACAY club have started conducting different programs in the campus. Important students' fests such as Youth Fest, Technozion, CURA and Spring Spree were conducted successfully. I congratulate the Dean (Students Welfare), the Faculty Coordinators of these Fests and Clubs & Associations and their teams for successfully conducting these activities. The Department of Physical Education has conducted a series of activities including the 1<sup>st</sup> Faculty Premier League in Cricket, Faculty-students Badminton Tournament and the Students Cricket Premier League etc. My special appreciation to the Head, Physical Education Department and his team for successfully conducting these programs.



Prof. N. V. Ramana Rao  
Director, NIT Warangal

Teaching and Research have become inseparable part of our academic culture in the Institute. This is reflected in the Campus placements and the R&D Projects sanctioned to the faculty. I am very happy to inform you that the Institute has crossed an important milestone of more than 1000 campus placements in this academic year 2021-22. I congratulate the Head CCPD and his team for this remarkable achievement. However, there is no place for complacency. We have a long way to go before the placements for all the programs including the P.G. programs reach a satisfactory level. It is heartening to note that some of our students have excelled in the recent GATE examination. My congratulations to all of them. My special congratulations to Mr. T Manideep Reddy, (B. Tech- Chemical Engineering) for securing the All India Rank One in GATE 2022. My special appreciation to the Department of Chemical Engineering too. I am very happy that a large number of our faculty colleagues were recently sanctioned prestigious externally sponsored R&D Projects. I congratulate all of them. My special congratulations to all the faculty colleagues whose patents were granted. I am confident that this work culture of "Academics blended with Projects, Publications and Patents" will take the Institute to greater heights.

The Institute conducted a number of programs during 22-28, February, 2022 as part of the Azadi Ki Amrut Mahotsav -75 years of Indian Independence. Science Festival and STUTI program need special mention. I am very happy to inform you that National Science Week Festival was conducted successfully under the aegis of the Science Communication Popularization and Extension (SCoPE) of the DST- Vigyan Prasar. Varieties of programs including Expert lectures, Science Exhibitions, Forestry, Science Experiments etc. were conducted during this program. Nearly 40,000 school children and college students from schools and colleges from Warangal and the neighboring districts of Warangal attended these

programs. I congratulate Prof. K. Laxma Reddy, Coordinator Scope and his team for successfully conducting this Program. I am very happy to inform you that our Institute was sanctioned a project by the Department of Science and Technology, (DST-GOI) titled "Synergistic Training program Utilizing the Scientific and Technological Infrastructure" (STUTI) to conduct 22 training programs round the year and 12 awareness programs during science week from 22<sup>nd</sup> to 28<sup>th</sup> February 2022, targeting the intermediate (10+2) students of science stream from Telangana Social Welfare Residential Junior Colleges, Government Junior Colleges, and Government Aided Junior Colleges in and around Warangal city. The theme of the awareness program is "R&D Equipment/ Facility for students Short Training and Popular Science Events". The Central Research Instrumentation Facility (CRIF) of the Institute is coordinating this Project. As part of the project, 12 awareness programs were conducted on "R&D Equipment/ Facility for students Short Training and Popular Science Events". I congratulate the Dean (R&C) and his team for conducting this program successfully.

The Alumni of the Institute have been contributing a lot in kind and through intellectual services for the development of the Institute. The batch that passed out in the year 1986 from the erstwhile Regional Engineering College Warangal, donated an Advanced Life Support (ALS) Ambulance to the National Institute of Technology, Warangal (NITW). For this kind act of generosity, the contribution of the alumni s greatly appreciated. My special appreciation to the Dean (IR&AA) and his team in acting as a bridge between the Institute and the alumni and facilitating their active involvement in the progress of the Institute.

The Recruitment process for the selection of nearly 129 Non-Teaching Staff has been successfully completed with the support and cooperation of all including the HoDs, and the Administration. My special appreciation to the Registrar and his team for smoothly conducting this strenuous process.

The Institute is in the process of applying for NBA accreditation of all its eligible programs in batches. I am very happy to inform you that in the first batch, our UG programs of Civil, Electrical, Mechanical and ECE have been fully accredited, while the UG - MME program is accredited for 3 years. Congratulations to all the stakeholders, including the HoDs for this remarkable achievement. My special appreciation to the Institute NBA Coordinator, Prof. A. Sarat Babu and his team for their sincere effort in making the things ready for the NBA visit through a series of meetings and mock visits. The exit feedback given by the NBA expert team helped us identifying the deficiencies in the system and we will work in this direction in addressing them.

I congratulate the Editorial Board for compiling all the details and bringing out this Newsletter. Let us all resolve to work hard and keep the flag of NIT Warangal high.

**Prof. N. V. Ramana Rao**  
**Director, NIT Warangal**

## Final year B.Tech Chemical Engineering Student tops GATE – 2022



**Mr. T Manideep Reddy**, a final year Student of B Tech from Chemical Engineering ranked All India first rank in GATE 2022

### Passport Awareness Program conducted as part of Azadi ka Amrit Mahotsav

The events started on a high note with Prof. Ravikumar Puli sir, dean student welfare addressing the event. Then, S. Goverdhan Rao sir, Registrar and Prof. N.V. Ramana Rao, director, discussed the importance of having a passport. The event was a huge success with around 500 participants from surrounding colleges like KITS and SR. Guest of Honours B. Lakshmana Kumar, Assistant passport officer, RPO Hyd and Bandi Rajan Babu local passport officer, Warangal have given an elaborate presentation on eligibility criteria, necessary paperwork, do's and don'ts and general guidelines required for the application of passport. Queries of all the students and faculty were also addressed. The event was very helpful for the students.



## NBA Accreditation



NBA expert team visited the institute from 11-13<sup>th</sup> March 2022. Four B.Tech programs including Civil Engineering, Electrical and Electronics Engineering, Mechanical Engineering, and Electronics & Communication Engineering have been accredited for five years and the Metallurgical and Materials Engineering program has been accredited for three years.

## National Science Week Festival

శాస్త్రవిజ్ఞానం సర్వత్రా క్షుణ్ణీయం  
"Vigyan Sarvatra Pujyate"

### National Science Week Festival

22-28, February, 2022

Held at

MoE-GoI-National Institute of Technology Warangal

ICMR-National Institute of Nutrition, Hyderabad

NCMS-Regional Science Centre, Tirupati

MoE-GoI-School of Planning and Architecture, Vijayawada

MoE-UGC-GoAP-Andhra University, Visakhapatnam

under the guidance and supervision of the, Director, NIT Warangal, Prof. NV Ramana Rao,

From the aegis of the DST-VP-SCoPE Telugu Project



Our country has been grandiosely celebrating its 75<sup>th</sup> year of Independence with the slogan, '**Azadi Ka Amrit Mahotsav**' from the last 15<sup>th</sup> August to till the next. More than any single enterprise, the realms of Indian Science and Technology, over the last 75 years and traditionally since centuries, have had an indelible impact on the development and progress of the country after Independence and in shaping it as a global economy over the last few decades.

In order to become active and an integral voice to chorus the great song of the *Azadi Ka Amrit Mahotsav*' and to be partners in the national level celebrations on the eve of the 75<sup>th</sup> year of Independent India, 9 major S&T organisations of the country, viz., DST, DBT, CSIR, MoES, ISRO, DAE, ICMR, DRDO and Ministry of Culture have observed the period 22<sup>nd</sup> – 28<sup>th</sup>

February, as Science Week Festival from the aegis of the Science Communication Popularization and Extension (SCoPE) of the DST- Vigyan Prasar.

The festival has been dated to culminate with the National Science Day, the 28<sup>th</sup> February (the day when Sir CV Raman discovered the Raman Effect) and was celebrated at 75 centres in as many as 18 Indian languages with the slogan, '**Vigyan Sarvatra Pujyate**' (**Science is Omnipresent Revered**, శాస్త్రవిజ్ఞానం సర్వత్రా శ్లాఘనీయం). As the grantee organisation of the SCoPE Telugu Project, the NIT Warangal, under the dynamic leadership of Prof. NV Ramana Rao, Director, NIT Warangal with Prof. K. Laxma Reddy as the Principal Investigator and Prof. A. Ramachandraiah as its Coordinator, the following 5 Centres have been identified to hold the VSP-SWF (Vigyan Sarvatra Pujyate - Science Week Festival) as part of the 75 centres all over the country.

- **Hyderabad:** Indian Council of Medical Research – National Institute of Nutrition (ICMR-NIN), Tarnaka
- **Tirupati:** National Council of Science Museums – Regional Science Centre (NCMS-RSC), Alipiri, Zoo Park Road
- **Vijayawada:** School of Planning and Architecture, Krishna Nagar
- **Visakhapatnam:** Andhra University
- **Warangal:** National Institute of Technology Warangal, Hanamkonda District

#### **Primary Schedule of the Science Week Festival:**

**22-2-2022:** Grand Inaugural Function and Inauguration of EXPO, Book Fair and Other Stalls

**23-2-2022:** Lectures on Annals of Science

**24-2-2022:** Lectures on Indian Science and Technology Mile Stones

**25-2-2022:** Lectures on Swadeshi Paramparik Inventions and Innovations

**26-2-2022:** Science Cultural Festival

**27-2-2022:** Lectures on Transforming India

**28-2-2022:** Grand Finale of Science Week Festival

#### **Additional Allied Activities of the Science Week Festival** (almost on all 7 days)

- Demonstration of Science Experiments Exhibits
- Posters and Exhibits of Local and Regional S&T Public Sector Establishments
- Magic Shows and Cultural Shows on Science
- Competitions and Quizzes
- Movies and OTT Videos of India Science, supplied by the Vigyan Prasar





## STUTI – 21:

The Department of Science and Technology has sanctioned a project titled "Synergistic Training program Utilizing the Scientific and Technological Infrastructure" (STUTI) to conduct

22 training programs round the year and 12 awareness programs during science week from 22<sup>nd</sup> to 28<sup>th</sup> February 2022 under Azadi ka Amrit Mahotsav to mark the historic phase of India celebrating the 75 years of independence.

Central Research Instrumentation Facility at National Institute of Technology Warangal was organized the STUTI-21 project. As part of the project, 12 awareness programs were scheduled targeting the intermediate (10+2) students of science stream from Telangana Social Welfare Residential Junior Colleges, Government Junior Colleges, and Government Aided Junior Colleges in and around Warangal city. The theme of the awareness program is "R&D Equipment/ Facility for students Short Training and Popular Science Events". Each awareness program consisted of 50 students from MPC or BiPC and the program is designed keeping in view of their stream.

On first day, 100 students from TSWRS/JC, Madikonda reached Ambedkar Learning Centre, NIT Warangal at 8:45AM for the inaugural function. Prof. V. Rajeswar Rao, Dean R&C, Co-chairman of STUTI-21 has invited the chief guest and other dignitaries on to the stage and briefed about STUTI-21 project. The chief guest Prof. B. J. Rao, Vice – Chancellor of University of Hyderabad, and the Guest of Honour Prof. N. V. Ramana Rao, Director of NIT Warangal started the program with the lamp lighting ceremony and motivated the students by paving a path in Nation building. After the high tea the students of two batches of 50 each have moved to Homi Bhabha Hall and Bose Hall in Seminar Hall Complex respectively to attend their sessions.

On Day 1, the lecture sessions were conducted for two batches by Prof. N. V. Ramana Rao, Director, NIT Warangal on "Significant contributions to Science and Technology by Institute of National Importance" and Prof. V. Rajeswar Rao, Dean R&C on "Impact of Organic Chemistry on Society" at Bose Hall. After lunch, the lecture sessions were conducted by Prof. Ramana Murthy on Theory of Equations at Bose Hall for Batch-1, and by Dr. K.V. Gobi on Electrochemistry for Energy systems and Dr. Paul Joseph on Heat at Homi Bhabha Hall. Quiz Programs were conducted for both batches by Mr. Ravikumar, Technical Officer and certificates were awarded. After a high tea the exploratory and explanatory visits to DST supported equipment at CRIF by Mr. Harish Madupu, Technical Officer and Advanced Robotic Equipment at Siemens Centre of Excellence by Mr. V. Sudhakar, Technical Officer were done. The students interacted with the technical staff about the working and usage of the high-end analytical instruments. The students were given a Zip File and Participation Certificate and left NIT college premises at 5:30 PM.

On Day 2, the students of TSWRS/JC, Wardhannapet attended two awareness programs. For first program, the lecture sessions were delivered by Prof. D. Dinakar on Electricity, and Dr. Abdul Azeem on Semiconductor Physics at Bose Hall and a Lab session on Basics of Microbiological Techniques was conducted by Dr. M. Jerold at Dept. of BioTechnology. For the second program, the lecture sessions were delivered by Dr. Venkata Srilakshmi on Biomolecules, by Prof. Dinakar on Electricity, Dr. Thangaraju on Electronics, Dr. S. Nagarajan on hello scientists am I audible at Homi Bhabha Hall and a Laboratory visit by Dr. Haranath on physics awareness. The Quiz Programs were conducted by Mr. Ravikumar, Technical Officer. An interactive visit of DST supported equipment at CRIF and Advanced Robotic Laboratory at Siemens Centre of Excellence is conducted by Mr. Harish Madupu, Technical Officer. The students were given a Zip File and Participation Certificate and left NITW premises at 5:30 PM.

On Day 3, the students of TSWRS/JC, Hasanparthy attended two programs. The lecture sessions for first program were delivered by Dr. Sanjay Kumar Panda on Road map to

computing, by Dr. Bala Prakasha Rao on Recent trends in computer science and Dr. D. Kasinath on Chemistry topics. The second program of the day started with the lecture sessions by Dr. Haranath on Optics, by Dr. B. Srinivas on Chemical Reactions and Equations and by Dr. Jayanthi on Magnetism. Laboratory sessions were conducted physically by Dr. Ravindar Pawar and Dr. Onkar Perumal for two batches. Quiz programs were conducted. Visits to CRIF and Siemens COE were made. The programs of the day ended with a lecture session on Impact of Mobile and Internet Technology by Prof. L. Anjaneyulu.

On Day 4, the students of TSWRS/JC, Elkathurthy arrived at Seminar Hall complex by 8:45AM. The students of BiPC stream attended the lecture sessions of Dr. U.S.N. Raju on Art of Computer Programming, Dr. P.V.S. Reddy on Computational Thinking, and Dr. Raghu Chitta on Solar Energy Harvesting. The students of MPC stream attended the lectures given by Dr. Sathya Narayana Engu on Differential Equations and their Applications, by Dr. J. Srinivas on Quadratic Equations, by Dr. K. Hari Prasad on Green Chemistry in Day-to-Day life. The lab sessions on Physics by Dr. Uday Kumar and Practical Lecture by Dr. M. RagaSudha and Dr. Rajesh Khanna motivated the students to learn and explore Science. CRIF visit and Siemens COE visits were conducted by Mrs. GSR Sanjeevini, Technical Officer. The students were given a Zip File and Participation Certificate and left NIT college premises at 5:30 PM.

On Day 5, the students from A.V.V. Junior college, have attended the program in two batches. In Bose Hall, Dr. S Nagarajan, Dr. Palash Mishra and Dr. D. Kasinath have delivered the lectures on various topics of science, and experiments were demonstrated by the faculty in respective laboratories. In Homi Bhabha hall the lectures were delivered by Dr. Jugun Prakash on Chemistry of Colours, by Dr. Tyageswar Chandran on Protein Structures. Lab session was conducted physically by Dr. B. Rama Raju on Bio-Chemistry. A computer laboratory session was conducted by Mr. Govinda Rao, Technical Officer and Mr. Bharghav Reddy, Technical Officer of NITW. Quiz programs and physical visits to the DST supported equipment at CRIF and Siemens COE were conducted.

On Day 6, the students of Pingili Junior College attended the lecture sessions. Prof. Vishnu Shankar gave a lecture on Miniaturization of Devices to MPC stream students. To the same students lab sessions were conducted by Dr. Jugun Prakash. BiPC stream students attended the laboratory session of Dr. Rathna Prabha at Dept of BioTechnology. The physical visits to the DST supported equipment housed at CRIF and Advanced Robotics laboratory at Siemens Centre of Excellence was carried out and gained the theoretical and practical knowledge on handling instruments

The Valedictory ceremony was arranged at Ambedkar Learning Centre. The Chief Guest Prof. B.S. Murthy, Director, IIT Hyderabad, and the Guest of Honour Prof. N. V. Ramana Rao graced the occasion. In their speeches, they addressed the importance of Science and the need for its exploration by the upcoming generations and their words motivated the students to learn science as their goal and to become a part of India's technological advancements. Prof. V.Rajeswar Rao, Dean (R&C), Co-Chairman of STUTI-21 honored the guests with Shawls. Prof. N. Narasaiah, PI of STUTI-21 appreciated the CRIF team and thanked all the Heads of the Departments and their faculty members for their support in delivering the lectures and conducting laboratory sessions. He also thanked all the team of Siemens COE, Team of SCoPe, and Security for their support. The DST was thanked for the support and motivation to conduct the one-week awareness program on science. The 12 awareness programs for 600 students were concluded from 22 to 28<sup>th</sup> February 2022.

## Technozion



Over the years, TZ has made it possible for students to get involved with everything technically sound and bring out a better idea of what the future could be. This year the event was organized virtually from 19-20<sup>th</sup> February 2022.

This era of TZ is designed to bring the ecstasy technology has to offer us that everyone deserves. After a tiring sequence of restrictions that have put away the happiness students had to have, all we need is an overwhelmingly joyous fest to drive us all towards the light of bliss. And we can promise that this will be it.

TECHSTASY, the theme this year directs an objective of letting the world know how rapturous technology can be, and all the outcomes it can offer so we can look forward to a better tomorrow while we live today at its best. Covering all the spheres it has its influence over, we hope technology can be looked at its best by us all via this fest.

## Faculty Sports:



1<sup>st</sup> Faculty Premier League in Cricket was organized from 17<sup>th</sup> to 27<sup>th</sup> February 2022.



Faculty Badminton Tournament was organized on 22<sup>nd</sup> and 23<sup>rd</sup> March 2022.

## Patents Granted

- **M.Heeralal, Rathish Kumar P etal**, Innovation Patent Granted on "Smart Rigid Pavement" by the Australian Government, IP Australia, Patent Number 2021106229, dated 19th Jan 2022.
- **Suchith Reddy, P. Rathish Kumar**, Innovation Patent Granted on "A Methodological Framework and System for Achieving Sustainable Building Construction", by the Australian Government, IP Australia, Patent Number 2021104847, dated 23rd March 2022
- 2021102773, "A System And Method For Determining Truthful And Deceptive State Of A Person" Bablani, Annushree Ms.; Reddy Edla, Damodar Dr. Bablani, Annushree; Reddy Edla, Damodar; Reddy, P. Saidi; **Ch., Ramalingaswamy; Kumar**, Pankaj, 2021-05-23 GRANTED



## Projects

- **Dr. Srinath S** (P.I) and **Dr.Raghu Raja Pandiyan Kuppusamy** ( Co-PI) DST Sponsored CRG " Development of 3D printable composite thermal shields using photo cure short fiber nano hybrid resins through Reactive Additive Manufacturing Process " 30.4 Lakhs 2022-2025.
- The project "Transcriptome to graph embedding: Development of a framework for predicting stage-specific biomarker in lung cancer" was sanctioned to **Dr. Asim Bikas Das** by SERB, under the scheme of Mathematical Research Impact Centric Support (MATRICS) (Total budget: Rs. 6.60 lakh)
- Development of Rare-Earth Free Long Afterglow Phosphors for Signage and Strategic Road Safety Marking Applications, SERB Project, PI: **Dr D Haranath**, Rs 32.60 Lakhs (2022-2025)
- Green DUV-C Sterilization: Switching on LEDs to save Energy, Environment and Public Health, DST Women Scientist (B) Project, PI: **Dr K Jayanthi**, Mentor: **Dr D Haranath**, Rs.33.92 Lakhs (2021-2024)
- Ion Implantation on Solution Processed Alq3/ZnO Hybrid thin films for Efficient UV Photodetector Applications, IUAC (UGC), PI: **Dr. K. Thangaraju** (2022-2023).
- **V.Rama Devi**,(Co-PI), Antecedents and outcomes of E learning adoption by the students of Higher educational institutions in India, Rs.3 Lakhs ICSSR (New Delhi)

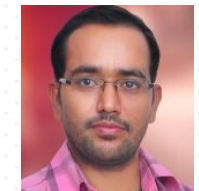
- **Prof. T. Kishore Kumar** (PI), Development Of Artificial Intelligence And IoT Based Portable Knee Joint Health Care Monitoring System For Rural India,38.61 Lakhs, SERB - CRG



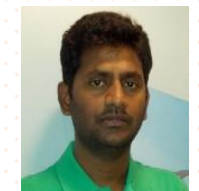
- **Dr. J. Ravi Kumar** (PI), Development of IP core for accident prevention system during rainy and hazy weather conditions,15.93 Lakhs,SERB, DST



- **Dr. Narendar** (PI), Design and Optimization of Novel Negative Capacitance (NC) FET for Low-Power and High-Switching Applications 33.00 Lakhs DST-SERB



- **Dr. Pakash Kodali** (PI), Flexible and Wearable Triboelectric Nanogenerators Development for Sensing, Energy Harvesting to Drive Implantable Electronic Medical Devices, Rs. 35.20, SERB-DST





- **Dr. S. Anuradha** (PI), Hardware implementation of UAV based Spatial NOMA for 6G Networks, 32.00 Lakhs, DST-SERB



- **Dr. G. Arun Kumar, Dr. P. Sreehari Rao and Prof. L. Anjaneyulu**, Miniature High Performance GNSS ultra-Low Noise Amplifier with NavIC Signals, 28.75 Lakhs, ISRO-IISU



- A project titled "Design and Implementation of solving Discrete Logarithm Problem using quasi polynomial time algorithm" sanctioned by DRDO SAG New Delhi,PI **Dr.R.Padmavathy, Co-PI Dr.S.Ravi Chandra Dr.Y.Sreenivasa Rao**

- **Dr. Sangharatna Godbole (P.I), NIT Warangal and Prof. P. Radha Krishna (Co-PI), NIT Warangal** , “Smart Cleaner: Automatic Clean the Smart Contract by Repairing Dead Atomic Conditions” Technology Incubation Hub (TIH) of National Mission on Interdisciplinary Cyber Physical Systems (NMICPS) for IIT Bhilai Innovation and Technology Foundation (IBITF) in FinTech Technologies under “Promotion and Acceleration of Young and Aspiring technology entrepreneurs (PRAYAS)” track for Rs. 26.46 Lakhs (3 years) 2022-2025.
 

- **Dr. Balaprakasa Rao Killi (P.I), NIT Warangal and Dr. Rakesh Tripathi (Co-PI), NIT Raipur** “Blockchain-Enabled Digital Identity and Authentication for Dynamic KYC (Know Your Customer) in Banking and Finance Investigators”, Technology Incubation Hub (TIH) of National Mission on Interdisciplinary Cyber Physical Systems (NMICPS) for IIT Bhilai Innovation and Technology Foundation (IBITF) in FinTech Technologies under “Promotion and Acceleration of Young and Aspiring technology entrepreneurs (PRAYAS)” track for **Rs. 7.62 Lakhs** (1 Year) 2022-2023.
 
- **Dr. Nagamuthu Kishore Babu**, Teachers Associateship for Research Excellence (TARE) SERB, File No. TAR/2021/000325 Date: 01-Feb-2022, Rs. 18.30 Lakhs
- **Dr. Ajoy Kumar Pandey, Dr. B. Srinivasa Rao, Dr. N. Narasaiah**, Exploratory studies on effect of fatigue and hold time on crack growth behavior of GTM Ti-64 alloy. GTRE, Bangalore, Rs. 90.56 Lakhs
- **Dr. N. Narasaiah and Team**, Synergistic Training Program Utilizing Scientific and Technological Infrastructure (STUTI-21), DST, Govt of India, Rs. 224.47 Lakhs
- **Prof Adep Kumar and Dr Shivaraman** received CARS project on Characterization of WAAM Additive Manufactured Component for Electronic Packaging-DRDL Hyderabad, 24.12 Lakhs

## Books and Book Chapters

- **Yammani C.** (2022), Parameters Estimation of Solar PV Using Jaya Optimization Technique. In: Salkuti S.R., Ray P. (eds) Next Generation Smart Grids: Modeling, Control and Optimization. Lecture Notes in Electrical Engineering, vol 824. Springer, Singapore. [https://doi.org/10.1007/978-981-16-7794-6\\_9](https://doi.org/10.1007/978-981-16-7794-6_9)
- **Altaf Q. H. Badar**, Piyush Patil, M. J. Sanjari, “Introduction and history of virtual power plants with experimental examples”, in Scheduling and Operation of Virtual Power Plants: Technical Challenges and Electricity Markets, Elsevier, 2022, 1-22
- Phosphides and nitrides for visible light photocatalysis. Rishika Chakraborty, **Mukul Pradhan**. Year 2020; Publisher: Elsevier, <https://doi.org/10.1016/B978-0-12-823018-3.00020-8>

- Vandana Singh, Krishnamoorthy Lalitha, **Subbiah Nagarajan**, Chapter 21 - Application of low- and high-molecular-weight biosurfactants in medicine/biomedical/pharmaceutical industries, Editor(s): Inamuddin, Charles Oluwaseun Adetunji, Mohd Imran Ahamed, Green Sustainable Process for Chemical and Environmental Engineering and Science, Elsevier Academic Press, 2022, Pages 397-420, ISBN 9780323851466, <https://doi.org/10.1016/B978-0-323-85146-6.00033-6>  
(<https://www.sciencedirect.com/science/article/pii/B9780323851466000334>)
- S. Joshi, S. Gupta, G. Kanahasabai and **Earnest Paul Ijjina**, "Intelligent Garment Detection using Deep Learning," in *Handbook of Intelligent Computing and Optimization for Sustainable Development*, **Wiley-Scrivener Publishing**, pp. 49-67, Feb 2022, ISBN 9781119791829. doi: 10.1002/9781119792642.ch3
- Krishna R Reddy, **Rathish Kumar Pancharathi**, N.Gangdhara Reddy and A.Suchith Reddy, "Advances in Sustainable Materials and Resilient Infrastructure", Springer Transactions in Civil and Environmental Engineering, Springer Publishers, 2022.
- **Tezeswi Tadepalli**, Vijayabaskar Narayanamurthy, Recent Advances in Applied Mechanics, Proceedings of Virtual Seminar on Applied Mechanics VSAM 2021, Series title - Lecture Notes in Mechanical Engineering, Feb 2022, SPRINGER, ISBN: 978-981-16-9538-4.
- **V.Rama Devi**, Talent Management and Intention to Stay: The Mediating Role of Employee Engagement, 978-93-54355-37-0
- **Dr. K.Madhavi and H.P Rani** jointly edited and published a book titled "Role of Women in Technical Education: Entrepreneurship, Research and Consultancy"(RWTE) with Cambridge Scholars Publishing, UK, ISBN- 978-1-5275-7770-1; January 2022.

## Publications

- Naresh Kali, Rajesh Korla, **Srikanth Korla**, Influence of Nanoparticles on Mechanical Properties of Hybrid Polymer-Layered Fibre Metal Laminates (FMLs), Transactions of the Indian Institute of Metals 75(4),pp1-10,2022  
doi: <https://doi.org/10.1007/s12666-022-02584-8>
- Momina shanwaz mohammad, **Shyam Perugu**.The synthesis of silver nanoparticles from vitex negundo plant by green method and their bactericidal effects. Letters in applied nanobioscience,2022.(Accepted for publication)
- Sai Raghunandan Suddapalli, **Perugu Shyam**. Using Mask-RCNN to Identify Defective Parts of Fruits and Vegetables. Springer Nature, 1–10,2022,LNCS 13184,IHCI 2021, LNCS 13184.
- Papisetti Venkatesham, **Perugu Shyam**, Pooja, Raju Chedupaka, Rajeswar Rao Vedula. Facile One-Pot Multi-Component Synthesis, Characterization, Molecular Docking Studies, Biological Evaluation of 1,2,4-Triazolo Isoindoline-1,3-Diones and

Their DFT Calculations. Polycyclic\* Aromatic Compounds, 333-658, 2022, 42, doi.org/10.1080/10406638.2022.2042333.

- Harshal Patil, Ajey Kumar Patel, Harish J. Pant & **A. Venu Vinod**, Numerical Modelling of stirred tank and its validation by Radioactive Particle Tracking (RPT) technique, ISH Journal of Hydraulic Engineering, 28, NO. SUP1, 327-340, 2022.
- Yashawantha, Kyathanahalli ; **Ananthula, Venu Vinod**, Heat transfer characteristics and Entropy generation analysis in Plate Heat Exchanger using Ethylene Glycol and Water mixture based Al<sub>2</sub>O<sub>3</sub> Nanofluid, Heat Transfer 51:296–322, 2022.
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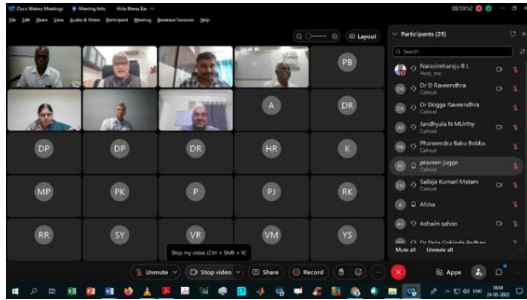
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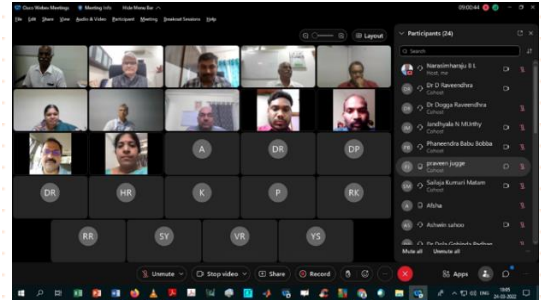
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## Conferences and FDPs organized

- Eight Day Online Faculty Development Programme (FDP) on "**Power Electronics for Electric Vehicles and Renewable Energy Systems**", 16th - 24th March, 2022, Jointly Organized by EED, NIT Warangal & EEE Dept. GRIET Hyderabad, in association with Electronics & ICT Academy, NIT Warangal, Academy is Sponsored by the Ministry of Electronics and Information Technology (MeitY), GOI). (No. of Participants: 49). **B L Narasimharaju**, NIT Warangal & J Praveen, GRIET-Hyderabad.



NITW-GRIET FDP Photo-1: Valedictory Function

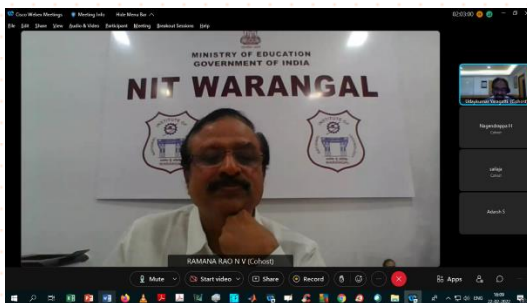


NITW-GRIET FDP Photo-2: Valedictory Function

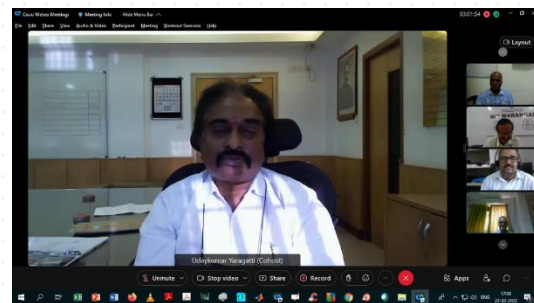


NITW-GRIET FDP Photo-3: Session of Expert Prof. M K. Pathak IIT Roorkee

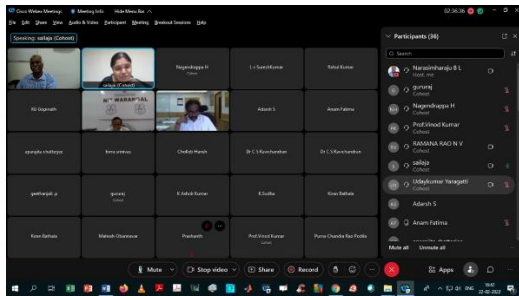
- Eight-Day E&ICT Sponsored NITK-NITW Joint Online FDP on "**Application of Power Electronics in Electric Vehicles and Energy Storage**", (APEEVES-2022), 14th - 22nd February 2022, EED NIT Warangal. EICT Academy NITW, Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI. (No. of Participants :67). **B L Narasimharaju**, NIT Warangal & H Nagendrappa, NITK Surathkal.



NITW-NITK FDP Photo-1



NITW-NITK FDP Photo-2

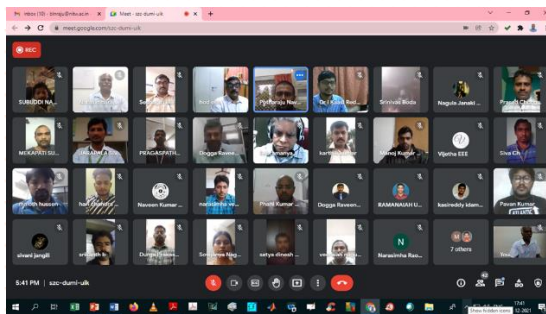


NITW-NITK FDP Photo-3

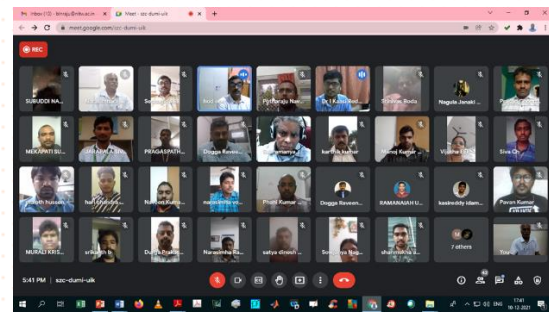


NITW-NITK FDP Photo-4

- Five-Day Self-Finance Online FDP on "**Potential Research Trends in Advanced Energy Conversion Technologies and Applications**", December 06 -10, 2021, NIT Warangal & VIT Bhimavaram, association with CEP NIT Warangal. (No. of Participants :40). **B L Narasimharaju**, NIT Warangal & I. Kaasi Reddy and S. Pragaspathy, VIT Bhimavaram.

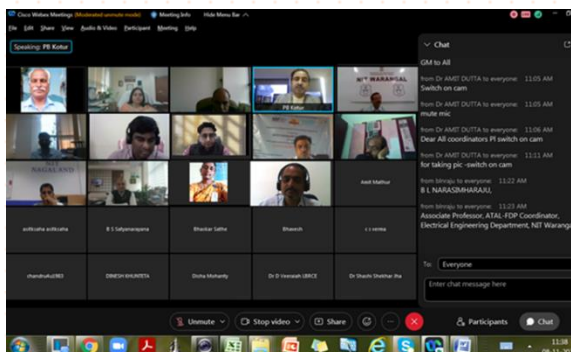


NITW-VITB CEP-FDP

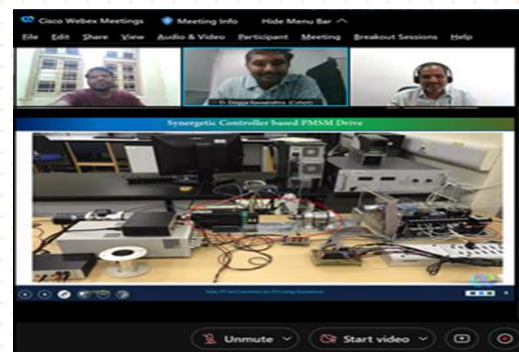


NITW-VITB CEP-FDP

- Five Day AICTE ATAL Advanced FDP on "**Electric Transportation Infrastructure for E-Mobility in India**" 08th to 12th November 2021, NIT Warangal, Sponsored by AICTE ATAL Academy, MoE, GoI. ( No. of Participants :114). Coordinator: **B L Narasimharaju**, NIT Warangal. Organizing Team: **B L Narasimharaju, A.V Girdhar & Ch. Ramulu**, EED, NIT Warangal.



ATAL Advanced FDP

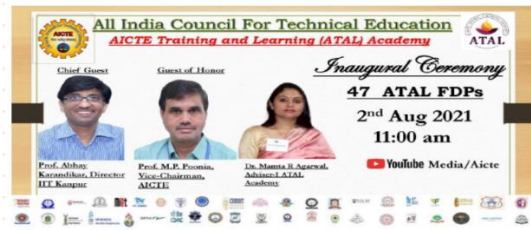


ATAL Advanced FDP

- Five Day AICTE ATAL Elementary FDP on "**Electric Transportation Infrastructure for E-Mobility in India**" 02nd to 06th August 2021, NIT Warangal, Sponsored by AICTE ATAL Academy, MoE, GoI. ( No. of Participants :195)



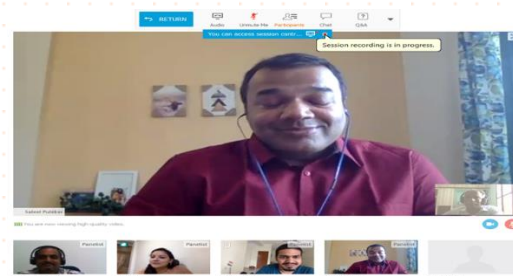
Informal Address at 9AM by Prof. N V Ramana Rao, Director NIT Warangal



You tube link for Inaugural: <http://www.youtube.com/mediaaict>  
Common Inaugural Ceremony at National Level



Group Photo of common inaugural ceremony of Elementary ATAL FDP at National Level



Motivational & Spiritual Session by Sri Saleel Pulekar, Art of Living, Bengaluru

- **Dr. B. Spoorthi, Organizing Secretary, International Conference on Women in Learning and Leadership (IcWILL - 2022)**, organized by Internal Complaints Committee, NIT Warangal during 08-09 March 2022.
- A 10 day Faculty Development Program (FDP) conducted on "**Emerging Optimization Techniques for Engineering Applications**" under E&ICT during 31 Jan 2022 - 10 Feb 2022
- GIAN program on "**Advanced Energy Conversion and Storage Systems**" from 07th Feb - 18th Feb 2022. Internal Faculty was **Dr. Altaf Q. H. Badar**, Electrical Engineering Department, NITW. External faculty was Dr. Jahangir Hossain from University of Technology Sydney.
- A 10-day National level workshop on "**HYBRID VEHICLES AND BATTERY MANAGEMENT SYSTEM**" under Electronics & ICT Academy during 7th-16th March 2022.
- A 10-day National level workshop on "**Applications of Artificial Intelligence in Digital Manufacturing**" under Electronics & ICT Academy during 21st Feb -03rd Mar 2022.
- A 10-day National level workshop on "**Applications of Power Electronics to Electric Vehicles and Hybrid and Hybrid Energy Storage Systems**" under Electronics & ICT Academy during 21st -30th March 2022.

- **"Organocatalysis: An Update"**, Faculty Development Program, Department of Chemistry, NIT Warangal, 6 March 2022.
- **"21st Century Solvents"** Faculty Development Program, Department of Chemistry, NIT Warangal, 4 March 2022.
- **"Science and Engineering for a Sustainable Future"**, Regional Science Centre (On National Science Day 2022), 28 Feb 2022.
- Online One-Day Faculty Development Workshop; **Green Chemistry: A Solution for Sustainable Future** organized at Department of Chemistry, National Institute of Technology Warangal on 4th March, 2022.
- The five-day training program titled **"River, Sediment and Hydrological Extremes: Causes, Impacts and Management"** from 7-11 March 2022 has been organized by the Department of Civil Engineering, National Institute Technology Warangal in collaboration with National Institute of Disaster Management (NIDM) New Delhi. Apart from some top administrative officials, more than 80 senior officials from different departments of Telangana, Andhra Pradesh, Karnataka, etc. including revenue, social welfare, Irrigation and Water Resources Engineers, Civil Defense etc. participated in the training program.

The chief guest of the program Prof. NV Ramana Rao, Director NIT Warangal gave the inaugural address on Institute collaboration with organizations for knowledge sharing. He said Disaster management is a multi-disciplinary subject which involves a host of critical areas, including social sciences, geology and seismology etc. The main focus of his speech was the establishment of the Centre for Excellence for Disaster Mitigation & Management at NIT Warangal. Prof. Anil K Gupta (Head ECDRM, NIDM New Delhi) was the guest of honour and presided over the function. Prof. Gupta mentioned that the subject of disaster management is directly related with the society, with saving the lives of people in times of disasters. Program coordinators Dr. Manish Pandey Assistant professor, Prof. N V Umamahesh NIT Warangal and Ms. Fatima Amin Young professional NIDM gave brief overview of the program. Prof. Ramana Murty and Dr. P. V. Rao gave a brief overview of Department of Civil Engineering and Water & Environmental Division, respectively. The program was conducted over 22 sessions filled with enormous sharing of knowledge through keynote lectures by Professors of National Institute of Technology Warangal and other organizations on the problems, research outputs and case studies over the topic of the program followed by a Field visit on Day 3 to "Gayatri Pumphouse" a Kaleswaram project, Telangana.



- **Dr.Perugu Shyam** conducted Ten Day Faculty development program on **Application of Artificial Intelligence & Machine Learning in Bioinformatics** - Online Mode. 15th - 25th March, 2022.
- **Dr.Perugu Shyam** conducted Ten Day Online Faculty Development Programme (FDP) on **Data Analytics and its Application in Healthcare** from 21st February - 02nd March, 2022, Department of Biotechnology, NITW.
- **Dr.Perugu Shyam** conducted Ten Day FDP online on **Recent Developments in Computational Biology** - Online Mode. 21st February – 2nd March 2022 Dept. of Biotechnology and E&ICT, NIT Warangal.
- **Dr.Perugu Shyam** conducted Two Day National Conference on **Advancements in Biotechnology** from 29th - 30th January, 2022.
- A One-Day National Symposium on “**Recent Trends in Applied Physics**” was organized by the **Department of Physics & OPTICA Student Chapter**, NIT Warangal during 31-01-2022
- **Dr Sujit Das** organised 5 days online FDP from March 22- 26, 2022 on **Data Intelligence and Computation** as coordinator under Center for Continuing Education, NIT Warangal.
- **Dr Sujit Das** organised 10 days online FDP on **Optimization Techniques in ML and AI** from February 26 -March 07, 2022 as coordinator under E & ICT Academy, NIT Warangal
- **Green Technologies towards Sustainable Future** from 8<sup>th</sup> to 12<sup>th</sup> March, 2022  
Organizing team from NITW  
Patron: **Prof. S. Srinath**, Head, Chemical Engg., NIT, Warangal  
Convenor: **Dr. V Ramsagar**, Assistant Professor, Chemical Engg., NIT Warangal
- **Dr. Earnest Paul Ijjina**, conducted a 10 day online Faculty Development Program (FDP) on **Machine Learning and its Applications with Python**, sponsored by Ministry of Electronics and Information Technology (MietY), Govt. of India, organized by E&ICT Academy, NIT Warangal and Vignan's Foundation for Science, Technology and Research (Deemed to be University) Guntur during 17-26 January 2022.

## Guest lectures by foreign experts

- Lecture on **IEC61850** for the students of “Real Time Control of Power Systems” of BTech IV/II and MTech PSE II/II on 29/03/2022 at 4:30pm by Dr. Herbert Falk.

## Third Distinguished Lecture

The third Distinguished Lecture was organized under outreach programme of the Ministry of External Affairs, Government of India. Videsh Niti: Distinguished Lecture Series was delivered by **Ambassador Amar Sinha On "Future of Afghanistan and the Region: A View from India"**, At 11:00 AM on Saturday, the 26th February 2022



## Invited Talks

- "Grid Fed AC-DC Converters for EV Charging/LED Lighting Applications" as a Speaker at Five Day Online FDP On "Potential Research Trends in Advanced Energy Conversion Technologies and Applications" Organized by Center for Continuing Education, NIT Warangal and EEE Department, VIT Bhimavaram, on 09-12-2021, Self-organized FDP. **B L Narasimharaju**, EED.
- "Driver Circuits for High Bright LED Lights in EVs", as a Speaker at Eight-Day Online FDP On Application Of Power Electronics In Electric Vehicles And Energy Storage (14th – 22nd February, 2022) organized NITW-NITK joint FDP on 15.02.2022 Tuesday, Self-organized E&ICT FDP. **B L Narasimharaju**, EED.
- "High Gain Bi-Directional Converter for Energy Storage Integration" as a Speaker, at Eight Day Online Faculty Development Programme (FDP) on "Power Electronics for Electric Vehicles and Renewable Energy Systems", 16th - 24th March, 2022, Jointly Organized by EED, NIT Warangal & EEE Dept. GRIET Hyderabad, in association with Electronics & ICT Academy, NIT Warangal, Academy is Sponsored by the Ministry of Electronics and Information Technology (MeitY), GOI). **B L Narasimharaju**, EED.
- "Grid Fed LED Drivers for Lighting Applications", as a Speaker, at Eight Day Online Faculty Development Programme (FDP) on "Modeling, Simulation and Control of Advanced Power Converters", 28th March – 06th April, 2022, Jointly Organized by EED, NIT Warangal & EEE Dept. GRIET Hyderabad, in association with Electronics & ICT Academy, NIT Warangal, Academy is Sponsored by the Ministry of Electronics and Information Technology (MeitY), GOI). **B L Narasimharaju**, EED.
- Delivered a lecture on "Particle Swarm Optimization for Engineering Applications" in One week (28 March to 1 April 2022) Online Faculty and Executive Development Program on "Application of Optimization Techniques in Engineering" organized by Department of Mechanical Engineering, Zakir Husain College of Engineering & Technology, Aligarh Muslim University, Aligarh.
- **S. Nagarajan** served as a resource person and delivered a talk on "Hello scientist am I audible, your Mother Nature is calling. Hello..." in the One week science awareness Programme under STUTI-2021 organized by CRIF, NIT Warangal on 22-28 February 2022

- **Dr. M. Raghasudha** delivered a talk as resource person on "Clock reaction-Study of kinetics of oxidation of iodide ion by H<sub>2</sub>O<sub>2</sub> in acid medium" and "Good lab practices and safety in Chemistry lab" in the one week science awareness programme under STUTI-2021 organised by CRIF, NIT Warangal during 22-28 February 2022.



- **Dr. Raghasudha** has demonstrated various Chemistry experiments for the students of various schools and Colleges visiting NITW during Science week festival (every day) organised by SCoPE project sponsored by Vigyan Prasar, New Delhi during 22-02-2022 to 28-02-2022.



- **Dr. Raghasudha** served as a resource person and delivered a talk on "Indian Women in Science who made history" in a "seminar on Women in Science" organized by Department of School of Education, Hanamkonda on the occasion of International Women's day on 08-02-2022 at Regional Science centre, Hanamkonda for Women teachers of Physical Science and biological science

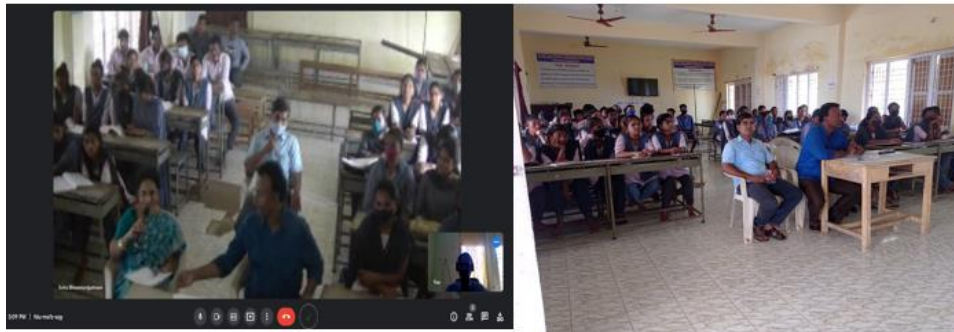


- **Dr. Raghasudha** served as a resource person for a workshop on "Women Education - Challenges" on the eve of Savitribhai Phule Jayanthi on 3rd January 2022 in Mahatma Jyothibaa Phule Residential college Prusu Gutta, Warangal

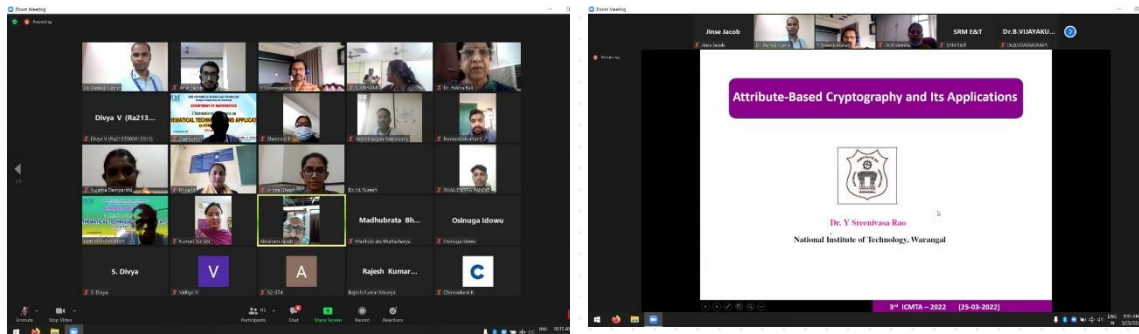
- **Dr. Raghasudha** as a resource person delivered an online talk on “Women Empowerment: A key Essential towards Nation Building” on 23rd January 2022 organised by SCoPE, NITW



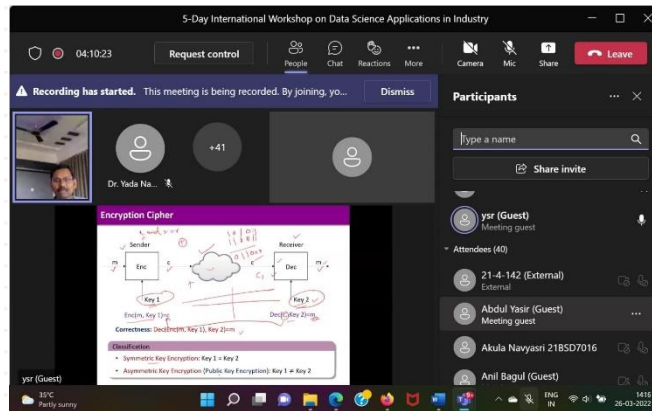
- **Prof Debashis Dutta** has delivered a Lecture on "Calculus in Data Science" at Vidyalankar Institute of Information Technology, Mumbai on Mar 19, 2022
- **Dr. Y. Sreenivasa Rao** has delivered a one day webinar on “Recent Trends in Mathematics”, conducted by Dept. of Mathematics and IQAC, S.V.L.N.S. Government Degree College, Bheemunipatnam, Andhra Pradesh, on 11-03-2022.



- **Dr. Y. Sreenivasa Rao** has delivered an invited talk on “Attribute-based cryptography and its applications” at 3rd International Conference on Mathematical Techniques and Applications (e-ICMTA - 2022) organized by Department of Mathematics, SRM Institute of Science and Technology, Kattankulathur – 603 203, Tamil Nadu, India, on 25-03-2022.



- **Dr. Y. Sreenivasa Rao** has delivered guest lectures of two hours duration on “Data Securing Protocols” at the 5-Day International Workshop on Data Science Applications in Industry (IWDSAI)), which is held at VIT-AP University, Andhra Pradesh, India during 24th – 28th March 2022 organized by the School of Advanced Sciences, on 26-3-2022.



- **Dr. T.P.Tezeswi**, Invited Speaker, "Machine Learning For Structural Health Monitoring", Applications of Soft Computing Techniques in Structural Engineering, ASCSE 2022, CSIR-SERC Chennai, 24-25, January 2022
- **Dr.Perugu Shyam**, Chief guest and Keynote speaker on Advancements in Science and Technology, Addressed Science Teachers during Science Day Celebration on 28th February 2022 conducted by SCERT, Government of Telangana.
- **Dr.Perugu Shyam**, Delivered Expert talk delivered on Technological Developments in Plant and Animal Sciences on 27th January 2022 conducted by DST-Scope, NITW.
- **Dr.Perugu Shyam**, Delivered Expert talk on Current trends in Drug Discovery in "International Conference on New Horizons and Trends in Chemical Sciences" organized by the Department of Chemistry, Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur in academic association with the Indian Society of Analytical Scientists (ISAS).
- **Dr.Perugu Shyam**, Delivered invited lecture on Data Analysis-Univariate and bi-variate analysis and hands on Practice, Correlation on 11th March, 2022 for 2 hrs (4 - 6 PM). In 10 days online FDP on "Understanding Research and Statistical Analysis Using SPSS" from 07th - 16th March, 2022 under E&ICT, NITW, NIT Warangal and IIIT Tiruchirappalli.
- **Dr.Perugu Shyam**, Delivered expert lecture on Genomics and Beyond in National workshop on Bioinformatics and Tools: Theory and Practice from 03rd - 04th March 2022 organized by Department of Microbiology, Andhra University, Visakhapatnam on 03/03/2022.
- **Dr.Perugu Shyam**, Delivered eight lectures in FDP on Application of Artificial Intelligence and Machine Learning in Bioinformatics from 15th - 24th March 2022 conducted by Department of Biotechnology, E&ICT, NITW.
- **Dr.Perugu Shyam**, Delivered twelve lectures in on Data Analytics and its Application in Healthcare from 21<sup>st</sup> February - 02<sup>nd</sup> March, 2022, Department of Biotechnology and E&ICT, NITW.
- **Dr.Perugu Shyam**, Delivered sixteen lectures Ten Day FDP online on Recent Developments in Computational Biology - Online Mode. 21st February - 2nd March 2022 Dept. of Biotechnology and E&ICT, NIT Warangal.
- **Dr. V.Rama**, "Gender Equality in Science & Technology Today for a Sustainable Tomorrow" Faculty of Science , Dr.B.R.Open University, Hyd, 23/03/2022 @11am



- **Prof. T. Kishore Kumar**, A 5-day online workshop on "automatic Speech Recognition" as Guest Speaker NIT Arunachal Pradesh 21st to 25th Feb, 2022
- **Prof. T. Kishore Kumar**, Two weeks online faculty development Program on "Computer Diligence in Civil Engineering & applications" as Guest Speaker NIT Warangal 21st to 30th March, 2022
- **Prof. T. Kishore Kumar**, One Week Online FDP on "Signal and Image Processing Techniques for Next Generation Applications as Guest Speaker NIT Warangal 04th to 13th march, 2022
- **Prof. T. Kishore Kumar**, One Week Online FDP on" AI for Communication and signal processing Application as Guest Speaker, NIT Warangal, 31st Jan to 9th Feb, 2022
- **Prof. T. Kishore Kumar**, One Week Online FDP on "Mathematical Foundations for Data Science" as Guest Speaker, NIT Warangal, 11th to 15th March, 2022
- **Prof. T. Kishore Kumar**, A 5-day national Level workshop on " AI enabled Translational research in Health Informatics as Guest Speaker ICMR 25th to 29th OCT, 2021
- **Dr. Mohammad Farukh Hashmi**, Role of AI/ML for Pneumonia Diagnosis and Classification" in one-day symposium on Artificial Intelligence (AI) for Medical Sciences as resource person AAlliance University Bengaluru. 25/03/2022
- **Dr. Mohammad Farukh Hashmi**, Delivered a talk as a resource person for 10 days Online Faculty Development Programme (FDP) On AI for Communication and Signal Processing Applications as resource person Electronics & ICT Academy, NIT, Warangal in association with V R Siddhartha Engineering College, Kanuru, Vijayawada 05th February – 14th February 2022
- **Dr. Mohammad Farukh Hashmi**, 10 days Online Faculty Development Programme (FDP) On AI & Machine Learning for Signal Processing Systems as resource person Electronics & ICT Academy, NIT, Warangal in association with Anurag University, Hyderabad, 16th January – 25th January, 2022
- **Dr. Mohammad Farukh Hashmi**, 10 days online FDP on "Nanoscaled Devices and Internet of Things for Engineering Applications" as resource person E & ICT Academy, NIT Warangal, 15th February – 25th February 2022
- **Dr. Mohammad Farukh Hashmi**, 10 days Online Faculty Development Programme (FDP) On AI for Communication and Signal Processing Applications as Coordinator Electronics & ICT Academy, NIT, Warangal in association with V R Siddhartha Engineering College, Kanuru, Vijayawada 05th February – 14th February 2022

- **Dr. Mohammad Farukh Hashmi**, 10 days Online Faculty Development Programme (FDP) On AI & Machine Learning for Signal Processing Systems as coordinator Electronics & ICT Academy, NIT, Warangal in association with Anurag University, Hyderabad 16th January – 25th January, 2022
- **Dr. Madhumathi Pasupathi**, delivered an expert talk on Technical Presentation Skills, a Six-day FDTP on 'Professional English' sponsored by Center for Faculty Development, Anna University, 21 Jan 2022.
- **Dr. R. Vennela**, Young Academic's Plenary Speaker, 6th Annual AINET Conference, 7th January 2022.
- **Dr. K.Madhavi** delivered a lecture on 'Script Writing and Media Relations' 'on 30th March 2022, at a Three Week Industrial Training Programme for English and CCP Faculty of Govt. Polytechnics, TS (March 14- April 06 2022) organised by the Department of English, Kakatiya University.
- **Dr. K.Madhavi** delivered Keynote in the Orientation Programme for the teachers of English on 'Assessment Procedures' conducted by ELTA- Hanamkonda on 24th March 2022.
- **Dr. K.Madhavi** delivered an expert talk on 'Blended Learning: A Means of Adapting to the New Normal' in a One-Week Online Faculty Development Programme (FDP) on the theme "REMAPPING TEACHING AND RESEARCH IN ENGLISH LANGUAGE AND LITERATURE – APPROACHES, METHODS AND TECHNIQUES" organized by the Department of English, Palamuru University, Mahabubnagar, in collaboration with UGC-HRDC University of Hyderabad, from 21-26 February 2022.
- **Dr. K.Madhavi** delivered an expert talk on "Digital Tools & Techniques for Effective Classroom Management 'on 10th Feb 2022, in the AICTE Sponsored Two-Day National Conference on Digital Evolution in English Language Teaching and Learning in Higher Education, organised by the Department of English, Anurag University from February 10-11, 2022.
- **Dr.P.Ravikumar**, delivered a Lecture in AICTE Sponsored FDP on "Fitness- A way of Life-Ergonomics- IT Professional", Organised by NBKR Institute of Science and Technology, Nellore on 16th March 2022.
- **Sangharatna Godbole**, Verifying Reactive Systems via Symbolic Execution with Incremental Deepening, Software Engineering Research in India (SERI), IIT Ropar, 2021.
- **Sangharatna Godbole**, Protecting Software Vulnerabilities from Hackers Using Fuzzing, ICMIT-2022. Plenary Talk, AMITY-RANCHI

## Achievements/Outreach

- Member, Board of Studies Meeting No.2 on 16/02/2022, Online mode. Guru Nanak Institute of Technology, Hyderabad. 16/02/2022. **B L Narasimharaju**, EED.

- **Dr. G Siva Kumar**, EED attended the Board of Studies meeting (online) to decide the course structure and syllabus for the Department of Electrical & Electronics Engineering on 15th February, 2022 for VNRVJIET, Hyderabad
- **Dr.Perugu Shyam**, Judge/Jury member for Drug Discovery & Development Workshop 2022 from March 15th - April 04th, 2022, organized by FABA (Federation of Asian Biotech Associations).
- **Dr.Perugu Shyam**, has been elected as Associate Fellow of Telangana Academy of Sciences. 2020
- **Prof. T. Kishore Kumar** Member- Review Committee for Design and Development of Digital signal Processor for Extended Range MMW Seeker , RESEARCH CENTRE IMARAT – DRDO. (January , 2022)

- **Dr.V.Rama**, As a chief guest to address Govt Practicing high school children, invited on Science Day Feb 28th, .

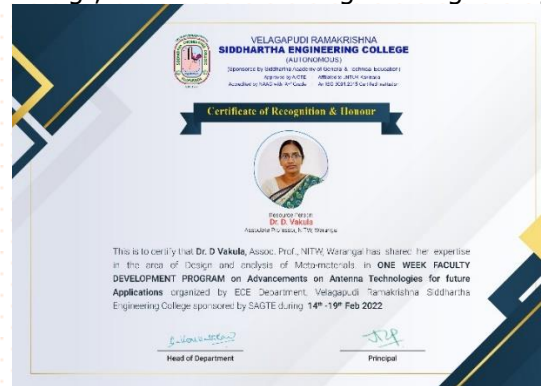


- **Dr.V.Rama**, As a guest speaker on International Women's Day organized by Jaibheem Vidya Foundation on March 6th, 2022.



- **Dr.V.Rama**,As a guest speaker on International Women's Day on March 8th, 2022, organized by POW.
- **Dr. K.Madhavi**, was nominated Chairperson Part-time PhD Board of studies Bharatiya Engineering Science and Technology Innovation University, (BESTIU) Ananthapur, AP, from 05th March, 2022.
- **Dr. K.Madhavi** is nominated as External Evaluator for NPTEL Course, PhD programme, School of Humanities, Social Sciences & Management, IIT Bhubaneswar, Odisha, since, 04th Jan 2022.
- Blockchain Technology - Applications, Issues and Challenges - Online Mode,**Dr. R. Padmavathy**, Dept. of CSE, NIT Warangal & Dr. Sukhwinder Sharma, Dept. of CSE, Mangalore Institute of Technology and Engineering, Mangalore
- Cyber Security Principles and Defensive Mechanisms - Online Mode,**Dr. R. Padmavathy**, Dept. of CSE, NIT Warangal & Dr. P. Shanthi Bala, Dept. of CS, Pondicherry University, Puducherry 21st March, 2022,30th March, 2022 21st February, 2022 2nd March, 2022

- **Dr Sujit Das** delivered a talk on Data Science and its applications on March 10, 2022 in a national level workshop on Artificial Intelligence and Machine Learning organized by Assam Royal Global University.
- **Dr Sujit Das** delivered a talk on Optimization Methods and Applications on Feb, 21, 2022 in an online FDP on Data Science and Its Applications organised by Electronics & ICT Academy, NIT Warangal.
- **Dr Sujit Das** delivered a talk on Fundamentals of AI on Feb, 28, 2022 in an online FDP on Optimization Techniques in ML and AI organised by Electronics & ICT Academy, NIT Warangal.
- **Dr Sujit Das** delivered a talk on Introduction to Fuzzy Sets and Fuzzy Logic on Jan. 26 and 27, 2022 in an online FDP on Optimization Techniques: Theory, Practice, And Emerging Applications organised by Electronics & ICT Academy, NIT Warangal.
- **Dr D Vakula**, Guest lecture on the topic "Design and Analysis of Metamaterials" on 14<sup>th</sup> Feb 2022 from 2.30-4.30PM during one week faculty development program on **Advancements on Antenna Technologies for Future Applications** scheduled from 14<sup>th</sup> -19<sup>th</sup> Feb 202, organized by dept of Electronics and Communication Engineering ,VR Siddhartha Engineering College, Vijayawada, AP



- **Sangharatna Godboley**, A tutorial session on EXTRACTION OF DEAD ATOMIC CONDITIONS FOR SMART CONTRACTS, Tutorial, 15th Innovations in Software Engineering Conference (ISEC), 2022.
- **Sangharatna Godboley**, Board of Studies (BoS) Member , G.H. Rasoni Institute of Business Management, Jalgaon.Maharashtra (From January 2021).
- **Dr. Brahma Raju** received Reviewer Appreciation Certificate from TIIM for February 2022
- **Prof. Adepur Kumar** received Production Engineering Division Prize for the paper titled " Role of Tool shoulder end features on Friction stir weld characteristics of 6082 Aluminum Alloy from Institution of Engineers (India) on 26th Dec. 2021
- **Prof. Adepur Kumar**, Best Researcher -NIT Warangal and NITW Alumni association in 2019.

- **Prof. Adepu Kumar**, Best Teacher Award 2019- NIT Warangal and NITW Alumni association in 2019



## Student Training Program – CET

- **Centre for Educational Technology** organized a One-Day Online Student Training Program on "FUNDAMENTALS of MATLAB & SIMULINK" on 29.01.2022 for the students of NIT Warangal. This program was coordinated by **Dr. T. Vinay Kumar and Dr. D. Sreenivasarao**. 121 students including research scholars have participated in this training program and benefited.

## PhDs Awarded

- **Madhu Kishore Chejarla**, Roll No. 701609; PhD awarded on March 7, 2022.

### Supervisor: Prof M Sailaja Kumari.

Abstract: Unbundling of vertically integrated electric utility, ever increasing load demand and integration of various intermittent resources made the electric grid more dynamic than ever. The current SCADA systems cannot provide the real time visibility of the system due to its low reporting rates. The measurement unit called Phasor Measurement Unit(PMU) invented by Prof. Arun Gandhi Phadke has the ability to monitor Electric Grid at higher sampling time than SCADA measurements. Therefore, their deployment and application in Power system state estimation becomes a need of the hour. To optimally integrate the PMUs and to use them in state estimation, existing methodologies and models were analyzed and proposed new strategies for deploying PMUs and new models for using deployed PMUs in PMU only assisted state estimation and in hybrid power system state estimation. This dissertation describes two new methods for providing multiple solutions while deploying PMUs into the power system. The proposed strategies provide the entire feasible solution space which gives the observability of the power system by working on binary connectivity matrix of the system. From the feasible solution space, multiple optimal solutions are obtained. The drawback of topology based optimal PMU placement(OPP) method -I is overcome in topology based OPP method -II. In addition, normalized Bus observability index and normalized System observability redundancy index are presented to overcome the drawback of system observability redundancy index (SORI) and bus observability index(BOI). Further, this dissertation introduces a new estimator called Quadratically decaying exponential criterion for



a power system which is completely observable by PMUs. Quadratic-constant (QC) robust estimator has been improved to make it suitable for linear state estimation. The constant part of the estimator after the break-even point is changed to decaying exponential, termed as Quadratically decaying exponential criterion. The proposed Quadratically- decaying exponential criterion (QE) is tested on IEEE 14, 30, 57 and 118- bus systems for two cases. (a) measurement data having only Gaussian noise (b) with corrupt measurement data. It is demonstrated that the proposed estimator is able to suppress the bad data and exhibit better estimation accuracy and vii computational performance compared to least absolute value(LAV) and WLSE. Next, a linear sequential hybrid state estimator is developed for integrating both SCADA and PMU measurements. In stage 1, the state of the power system is obtained using only SCADA measurements, with the help of the proposed linear model. In stage 2, the state of the power system is estimated using both PMU measurements and the intermediate state vector obtained in the first stage. During the instances when only PMU measurements are available, SCADA pseudo measurements are computed with the help of the previous instant state vector. The proposed method is tested on IEEE 14-bus, IEEE 30-bus, IEEE 57-bus, and IEEE 118-bus systems. The proposed method estimation accuracy is superior compared with traditional state estimator, pseudo measurement, and ANN based methods and competing with two stage hybrid state estimators. The computational efficiency of the proposed method is far superior than traditional state estimator, pseudo measurement-based method and two stage hybrid state estimators. Finally, a linear single stage hybrid state estimator is developed for utilizing both SCADA and PMU measurements in the power system state estimation. With the help of previous instant state vector, SCADA measurements are transformed. The transformed measurements show a linear relationship with the state vector like PMU measurements. The transformed measurements and PMU measurements are used for estimating the states with the help of a linear model. The proposed state estimator is tested on IEEE 14- Bus, 30-Bus, 57- Bus and 118-Bus test systems. From the results, It is evident that the proposed estimator exhibits better accuracy and less computational time compared with traditional SCADA based WLS estimator and two stage hybrid state estimator. The proposed method is also able to track the system state in all PMU reporting rates.

- **B. Laxaman** PhD awarded on 21-12-2021

**Supervisor: Dr N V Srikanth**

Investigation and Design of Intelligent Controllers for Performance Improvement of Renewable Energy Sources in Microgrid

ABSTRACT: Energy is a critical component in the economic, social, and industrial growth processes. Because conventional energy sources are rapidly decreasing, the only answer is to use alternative energy sources. Apart from that, the transmission of power is also uneconomical in some situations, such as isolated areas and islands. As a result, it has become important to connect the main grid to a microgrid comprising renewable energy sources in order for the microgrid to ensure supply continuity in the case of main grid failure or a malfunction in the main grid. Renewable energy sources include photovoltaic power, hydropower, geothermal power, and wind power. These are clean and abundantly available energy sources. Among the various renewable energy sources, the more commonly used renewables in the microgrid are wind and solar energy. However, the output power of these solar and wind energy is strongly correlated with weather conditions, their outputs are not consistent over time. It can cause power loss and frequency deviations in a microgrid. Therefore, the more efficient control strategies are



required to increase the performance of these systems. Hence, in this thesis, the intelligent controllers are proposed to tackle these issues.

The PV system has a drawback that ambient temperature and irradiance are the key factors that affect the performance of the PV system under fluctuating climatic conditions. Due to these changing climatic conditions, the irradiance diminishes, and it results in the non-linearity in voltage–power (V-P) curves of the PV system. Therefore the multiple peaks occur on V-P curves instead of a single peak. Therefore hence, it is challenging to track the global maximum power point tracking (MPPT) under these circumstances with traditional MPPT techniques viz. perturb and observe (P&O) and fuzzy logic (FL). Appropriate MPPT techniques are indispensable to track the global maximum power point (MPP) in the PV systems. Concerning the above issues, in this research work, various MPPT methods to track accurate MPP of a PV system such as grasshopper optimized FLC based MPPT, Grey wolf optimized FLC based MPPT, and Rao-1 based MPPT are proposed. The performance of the proposed GOA optimized FLC based MPPT of the PV system is examined under various sudden changes in irradiance conditions and ambient temperature. The proposed MPPT is enough able to handle the output power of the PV system for any abnormal conditions in irradiance and temperature. The proposed GWO optimized FLC and Rao-1 algorithm based MPPT techniques are examined under PSCs and these are enough able to handle the output power of the PV system for any abnormal conditions. The proposed MPPT improves the convergence speed, tracking efficiency and decreases the steady-state oscillations which improve the PV system efficiency.

Volatile nature in renewable power output, stochastic nature of the load, and continuous change in system structure are the key factors affecting the stable operation of microgrids (MG), particularly in frequency control. Appropriate control schemes are indispensable to reduce the frequency fluctuations in MG under such scenarios. Concerning these issues; this paper proposes a novel two-level control mechanism approach to mitigate the frequency fluctuations in the wind- diesel standalone MG. In the first level, from the wind turbine generator (WTG) side, a fixed wind power command is replaced by an optimum adaptive wind power command based on the power system operating conditions and wind speed conditions. To perform this task, the fuzzy logic approach (FLA) is employed by considering the change in wind velocity and frequency deviation as inputs and change in WTG power as output. In the second level, a robust FLA tuned Proportional Integral (PI) controller is proposed to regulate the output power of the diesel engine generator (DEG) for the further reduction in MG frequency fluctuations. With this proposed two- level approach, the MG frequency fluctuations are within the limits in all possible operating conditions, which include some critical operating scenarios. Moreover, the superiority of the proposed approach in dynamic performance enhancement against load and wind power changes is proven by comparing with various powerful controllers in the literature.

This thesis addresses the problem of extraction of the maximum power from the stand alone PV system subjected to various changing irradiances and also frequency fluctuations in an autonomous wind-diesel microgrid. In order to extract the maximum power from the PV system subjected various irradiance profiles, three new MPPT techniques are developed namely Grasshopper optimized FLC, Grey wolf optimized FLC, and Rao-1 optimization based MPPT techniques. For frequency control in an autonomous wind-diesel microgrid, a novel two level control mechanism is proposed without using any energy storage system. And this proposed two level control approach provides the frequency deviations within the acceptable limit.

- **Ph.D Awarded (15-3-2022) : Mrs Ravikanti Swetha**

**Thesis Title :** "SOME INVESTIGATIONS ON PERFORMANCE EVALUATION OF COMPACT CIRCULARLY POLARIZED ANTENNAS FOR 5G WIRELESS APPLICATIONS"



**Mrs R.Swetha**



**Prof L. Anjaneyulu**

**Abstract :** The key idea of the research work is on developing compact broadband circularly polarized antennas with less complex design and compact size. Four different novel designs of circularly polarized antennas are proposed that are suitable candidates for different 5G wireless applications, viz., microstrip antenna loaded with asymmetric slits to achieve circular polarization, A new method of exciting the basic square patch with hook shaped aperture stacked upon with a copper plate with the support of foam, a triple band antenna with simple asymmetric circular patches and a superstrate technique, A new prototype antenna with frequency selective structure as superstrate

- **Dr.Jismy Joseph**, PhD Scholar in the Department of H&SS, completed her Viva voice on 18th January 2022 under the supervision of **Dr.M. Raja Vishvanathan**. Thesis titled "Narratives of connection : Interdisciplinarity in select novels of Richard Powers".

- **Dr. KVBV Rayudu**

**Thesis title:** Some Investigations on Efficient Testing & Fault Diagnosis Algorithms for VLSI Circuits

**Abstract:** Various test and fault diagnosis techniques are applied on chosen FinFET based combinational and sequential circuits. Built in Self- Test (BIST) in finding faults is analysed with respect to salient figures of merit including maximum fault coverage, speed, power dissipation, and test area overhead leading to improved design performance. PODEM (Path Oriented Decision Making) algorithm is employed to test FinFET based combinational circuits to find out fault location efficiently at node level. ROBDD technique is applied to find maximum number of faults optimizing area and power dissipation while testing address decoder of RAM in RISC processor.



**Dr. KVBV Rayudu**



**Dr. P. Sreehari Rao**

- **Dr. Krishna Reddy Komatla**

**Thesis title:** Novel Design Techniques for Energy Harvesting Integrated Circuits

**Abstract:** A power management unit (PMU) with the DC-DC boost converter is strongly required to raise the voltage level proportionate to the desired voltage level. This work focuses on the design and development of an ultra-low power, self-start-up DC-DC boost converter for self-powered IoT nodes. A step-up converter is presented along with its clock generator that operates in sub-threshold utilizing the bulk driven technique for low power operation. The proposed architecture is designed in standard CMOS 0.18  $\mu\text{m}$  technology. The proposed design offers 0.15% output voltage ripple, and output voltage takes 110 $\mu\text{s}$  to reach 1.92 V, while consuming the power of 772 nW.



Dr. Krishna Reddy Komatla



Dr. P. Sreehari Rao

- **Mr. Somesula Manoj Kumar** (716041), Design of Efficient Caching Algorithms for Mobile Edge Networks 15-03-2022, 11:00 AM, **Dr. Rashmi Ranjan Rout, Prof. DVLN SOMAYAJULU**
- **Mr. K. Chaitanya** (714153), Some Studies on Improved Particle Swarm Optimization, for Multi-Domain Problems, 14-03-2022, 4:00 PM, **Prof. P Radha Krishna, Prof. DVLN SOMAYAJULU**
- **Ms. Sweta Panigrahi** (717046) Pedestrian Detection based on Hand-crafted and Deep Learning Methods, 10-03-2022, 04.00 PM, **Dr.U.S.N.Raju**
- **Ms. Lavanya Madhuri Bollipo**(701433) Optimization of support vector machines for balancing the trade-off between generalization performance and computational complexity 03-03-2022 2:30 PM **Dr. Kadambari K V**
- **Mr. D. Mallikarjun Reddy**(716042), Blockchain-based Fair, Payment Protocols for Cloud Services, 05-01-2022, 11.00 AM, **Dr Chapram Sudhakar**

## Infrastructure/Equipment

Purchase of server, HPE ML 350 Gen 10 from SERB SRG project of **Dr. Chayan Bhar.**



## Student activities

### Electrical Engineering Association (EEA)

- FLASH :

The February edition of the Flash magazine published an interesting topic 'Electricity Theft'. It is an important yet underrated concept in the electricity domain, which involves a lot of societal aspects to it. Electricity usage has become the most basic thing in our lives. It is ethical to pay for the power consumed. However very few people consume electricity and deny paying the right amount by using some manipulation techniques in power reading. This is called Power theft. EEA has come up to mobilize about Power theft happening around us.



- Placement Experience series:

Every student in the college is curious and constantly trying to know about the placement of their seniors. To guide such students, another series from EEA, a post every week is being released on the online platforms making it really a magazine but only with the experience of our placed seniors and alumni about the companies and their journey before and through.

Not confining ourselves to the events, EEA released the 6th post of placement and internship experience series that was made and released on 02-02-2022 talking about the experience of our Final Year student Sanjay Perne. It described in detail about Sanjay's experience on cracking the prestigious interview. Sanjay's experience in cracking the

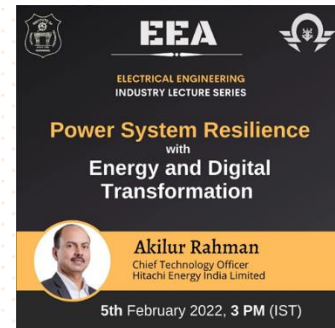


technical interview of Servicenow is not only valued by EEE students but all branches software enthusiasts. His valuable suggestions on preparation and keeping composure in the process is advised to all students widely.

- Industry Lecture Series:

Electrical Engineering Association, on 5th February, conducted an Industry Lecture as a part of its Electrical Engineering industry lecture series. A lecture was conducted by Mr. Akilur Rahaman on Power System Resilience with Energy and Digital Transformation.

The resilience of future energy networks is defined as 'The ability of a power system to withstand extraordinary and high impact-low probability events. Akilur Rahman is CTO for Hitachi Energy India, has a master's in technology from IITK and is certified in general management from the IIM-Bangalore. The lecture incited a curiosity for students in Power system Resilience and their industry use cases. With the spirit induced by Rahman sir inspired every student to pursue their career in energy industry to become the next big world leaders in the Electrical domain.



- Founders Hat:

Electrical Engineering Association as a part of TZ 2022 has come up with an event that has given the students the same experience as the company's founders. Founders Hat was conducted on 19th February, where the participants got to pitch for the company they love and judges decided on the winners based on their presentation of the company. The event incited a great response from the students who wish to pursue entrepreneurship as a career, and the efforts they put to present their favorite company is laudable.



- Electromania :

Electrical Engineering Association as a part of TZ 2022 has come up with another event named Electromania. It was also conducted on 19th February. Electromania's aim was to give the participants an experience of going into an auction. Prizes worth 7.5k were announced for the event.

With pre-defined circuits and a whole bunch of resistances to be auctioned at the cost of voltage, this event kept the participants at the edge of their seats. This turned out to be one of the most innovative event ideas we had. The participants' enthusiasm inspired all the Association members to work hard for the future events with the same spirit.



- Veri Skill :

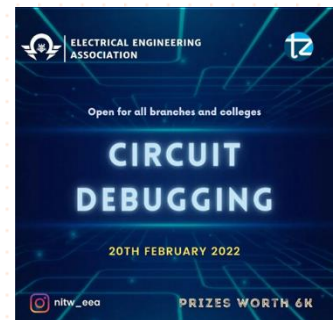
As a part of Technozion'22, Electrical Engineering Association has come up with an event for all the Hardware enthusiasts. EEA has brought \*VERI-SKILL\* , a digital circuit design challenge using Verilog. Veri-Skill is a verilog oriented coding competition where you need to use your skills to get the logical approach and solve the issue specified. This event was conducted on 20th Feb and the prizes worth 7.5k were announced.



- Circuit Debugging :

For the Technozion 22', the Electrical Engineering Association came up with yet another intriguing event for the hardware enthusiasts to, CIRCUIT DEBUGGING QUIZ.

The quiz had a series of well curated questions that gave participants just the right exposure to allow them to bridge the gaps between theory and practice. This quiz was conducted on 20th February, and the prizes worth 6k were announced. With this event, EEA has successfully completed its three events for the Technozion'22 in a grand way.



- Webinar on Placement Opportunities :

Being an Electrical Engineering student gives everyone a myriad range of options regarding career. The confusion of what to choose and the skepticism regarding the placement opportunities in our own Electrical field is always there among the student communities.

Electrical Engineering Association conducted a webinar on 5th March, regarding the placement opportunities in the Electrical Field by Dr. P. Suresh Babu, Assistant Professor, Department of Electrical Engineering, where we addressed many questions that prospective electrical engineers have before taking the plunge. This session cleared many doubts of students who wish to pursue a career in the electrical field and become industry experts.



- Webinar on Power Electronics in Mobile Computing:

Every Silicon device has the requirement of maintaining the high performing microprocessors and higher battery life. The Gen Z technologies provide charging in less than 20 minutes!

EEA invited Samantha Rao who spoke about Power Electronics in Mobile Computing. She is a power delivery architect in Intel, India. She holds an MTech in electronics design from IISc Bangalore and has 20+ years' experience in analog and power electronics. This session was conducted on 19th March.



- Students participated in this session with much enthusiasm and to gained many new insights about the fast moving power electronics world and get enough power to be the next power electronics leader in the Mobile Computing domain

## Mathematics:

Event Name: Tambola

Details about the event: As a rule, each player must buy at least one ticket to enter a game. A typical 90 ball Tambola ticket consists of 3 rows and 9 columns which make 27 spaces. Each row has a total of 5 numbers printed on it. A column can have 1,2 or a maximum 3 numbers printed on it. The first column on the ticket will have numbers from 1-9, the second column will have 10-19, the third column with 20-29, and so on until the 9th column which will be numbered in between 80-90.

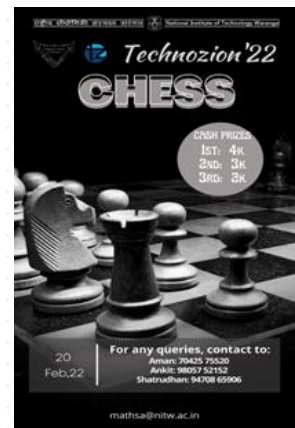


Event coordinators: Aman, Aman Kumar, Piyush Kumar, Manish Khulbe, Indu, Ritesh Ranjan, Shreya Singh, Parul Agarwal, Shagun Pandey, Zainab Taj, Akash Sharma (M.Sc. Mathematics and Scientific Computing)

- No. of Participants: 146 students
- Platform: Google meet. : It was required for conducting the event. Parallel meets were arranged based upon the number of participants.
- Logistics: Google form: It was required for collecting the data of participants.
  1. E-certificates were given to all the participants.
  2. Google drive link to upload the Tambola tickets.
- No. of rounds: 3

Event Name: Chess

Details about the event: This event was organized on the Lichess platform online. The participants were given lobby tickets and the software took care of the randomization of the participants opponents and conducting the rounds on its own. The participant who completed and won the lobby game first were declared the winner and the rest followed the same.



Event coordinators: Aman, Aman Kumar, Pankaj Yadav, Kunal Kumar, Akash Sharma, Arvind Jangir (I Year) (M.Sc. Mathematics and Scientific Computing), Ankit, Archi Bajpai, Shatrudhan, Shubham (Applied Mathematics).

- No. of Participants: 134 students
- Platform: Google Meet: It was required for conducting the event. Parallel meets were arranged depending upon the number of participants.
- Logistics
  1. Google form: It was required for collecting the data of participants.
  2. E-certificates were given to all the participants.
- No. of rounds: 1

- Event Name: MATH-E-JUNG

Round-1(Mathlete): We hosted a 2-minute Quiz on the Dare2Compete platform which was opened for college students. Students from 538 colleges had participated. It was basically a preliminary round where we shortlisted 150 students out of an audience of 961 students.

Round-2(Treasure Hunt): The qualifiers from the first round received a mail from the event committee which contained a link that redirected them to our first riddle on google drive. The Google Drive contained a pdf that had a riddle for participants to solve. If the participant solves the riddle he/she gets the key to their next treasure (pdf password).The link for the next riddle was just below the present riddle itself. The solution to the present problem was used to access the next riddle. The participants who had finally reached the last riddle got a link to a google form which they had to fill out. From that Google Form, we had selected the top 30 rankers for the final round.

Round-3(Fastest Finger First): In this round, we conducted one Google meet with all the 30 qualifiers of Round-2, and to make this session more interactive we added some fun activities and games along with our event.



Event coordinators: Raman Kumar Bansal, Shivangi Goel (M.Sc. Mathematics and Scientific Computing), Muskaan Makhija, Kirti Tuteja, Kaustav Sen (I M.Sc. Applied Mathematics)

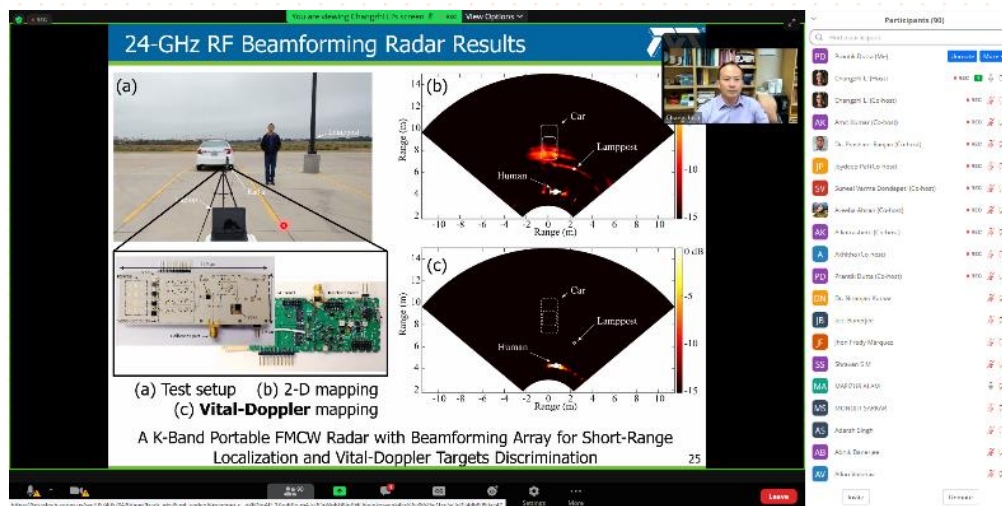
- No. of Participants: 961 students
- Platform: Dare2Compete, Google Form, Google Drive, and Google meet.
- Logistics
  1. Dare2Compete platform we used for conducting Round-1 smoothly.
  2. Google form: It was required for conducting Round-2.
  3. Google Drive with our self-encryption to make our event better.
  4. E-certificates to all the participants.
  5. Acknowledgement Certificate to all the participants qualifying for round-3
- No. of rounds: 3
- The Department of Humanities and Social Sciences has initiated a monthly Book Review Forum in which the scholars were encouraged to review a book every month. Dr. P Madhumathi is the faculty coordinator for BRF in which scholars have reviewed two books such as;
  1. J. Ravi Prakash presented the novel, The Stranger written by Albert Camus on on 28th January 2022
  2. Ms. Aiswarya Sureshan presented the novel, 10 minutes 38 seconds in this Strange World written by Elif Shafak on on 26th February 2022
- The Department of H&SS organised two events for Technozion 2022 in Collaboration with Music Club, Faculty Advisor, Dr.P.Madhumathi and Literary and Debate Club, Faculty Advisor, Dr.B.Spoorthi. The first event is a Music workshop in which Mr. Joel

Sakkari, Professional Guitarist and Music Producer, Rainbow Bridge School of Music, was the Guest Speaker for a session on 'Music Production' on 19th February 2022. Next event is the 'Technical Research Paper Writing' organised, as part of the technical fest with the theme- TECHSTASY, A Euphoric Pursuit of Ideation.



## IEEE Students Activities

Distinguished Microwave Lectures was delivered on "Portable Radar Systems for Life Activity Sensing, Anomaly Detection, and Human Tracking" by Prof. Changzhi Li, Texas Tech. University, USA on 23/03/2022 under **IEEE MTT-S student branch chapter**, NIT Warangal



S.No.	Name of the Student Branch Chapter	Date of Student Branch Chapter Formation	Name of Student Branch Chapter Advisor	Chairperson
1	IEEE AP-S Student Branch Chapter	March 12, 2022	<b>Dr. Gopi Ram and Dr. G. Arun Kumar</b> Assistant Professors in ECE, NIT Warangal	<b>Mr. D. Suneel Varma</b>

## National Level Management Event Cura'22

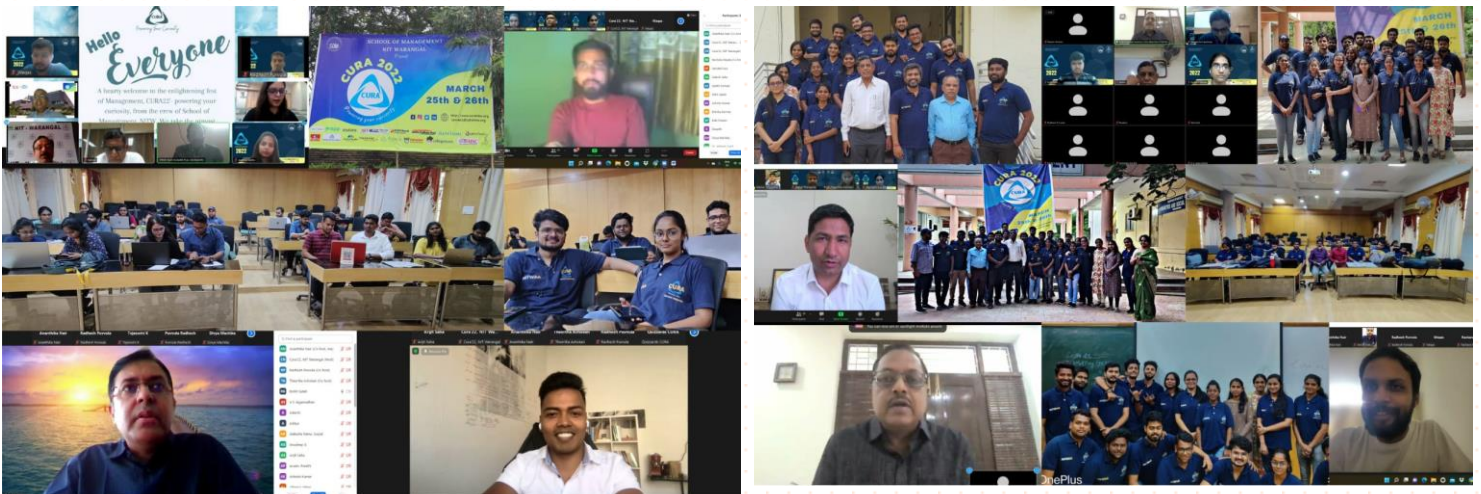
The 12th edition of CURA, the National level management meet of School of Management, National Institute of Technology, Warangal inaugurated on 25th March 2022, in the presence of the chief guest Prof. N. V. Ramana Rao, Director NITW, Guest of honors Prof. P. Ravi Kumar, Dean student affairs, Shri. N. Jayaram Vice president, TCS and Prof. M. Ravinder Reddy, Head of the Department, SOM.

Prof. N. V. Ramana Rao, Director, addressed about the importance of such events, followed by Prof. P. Ravi Kumar and Mr. N. Jayaram talking on innovation and the practices students should imbibe. The head of the department briefed about the School of Management and after that Dr. Rahul Thangeda took the event further with his perspective about how CURA has evolved with time. CURA'22 edition consisted of more than 10 management competitions, workshops, and a plethora of keynote speakers who share their experience with students from all walks of life and has been an integral part of NITW for the past 12 years.

The event kicked off at 9 am through virtual mode and the inaugural event lasted till 9:30 AM and was celebrated with gaiety. There were 10 events, 2 workshops, and 7 keynote sessions in which 245+ students from 43 prestigious colleges in 14 different states across the country participated in the event.

26th March 2022 marked the conclusion of the 12th edition of CURA, the management fest of the School of Management, NITW. The valedictory started at 5:30 PM. The report of the events and the workshops was shared by Dr. T. Rahul Thangeda, Faculty advisor, and Mr. P. Radhesh, student co-ordinator.

The event was addressed by Prof. M. Ravinder Reddy, Head of the Department, School of Management. The guest of honours was Prof. V. Venkata Ramana, Vice Chairman, TSCHE who took the event further and gave their valuable inputs to all the participants.



## Student Achievements

- Mr Potla Yedukondalu, Mr Prashant Pareek, Mr Shivam Tiwari, Mr J Manoj Kumar and Palle Parimala have cleared Gate-2022
- Mr R. Arun Kumar presented a poster titled "Fabrication of flexible semiconductor from amphiphilic N-glycosyl naphthalimides using molecular self-assembly" in RSC poster Twitter Conference organized by Royal Society of Chemistry, UK on 02-March 2022

### Here are some of our students who got a PhD in America



Mr. Anuj Kumar Singh admitted at University of Minnesota, USA for MS-PhD



Ms. Srutashini Das admitted at Texas A&M University, USA for MS-PhD

### Here are some of our students who qualified GATE 2022



POTLA YEDUKONDALU



SINDHU PRIYA



SHIVAM TIWARI



PRASHANT PAREEK



MUFEEDA. M



PRANAV KHANDELWAL  
CSIR NET LS QUALIFIED

## Placements Chemistry



**VISHAL MISHRA**  
FIITJEE FACULTY  
CTC – 16 LPA



**RUSHIKESH PARDESHI**  
GRADE I OFFICER  
FEDERAL BANK  
CTC – 12.5 LPA



**PRASHANT PAREEK**  
GRADE I OFFICER  
FEDERAL BANK  
CTC – 12.5 LPA



**MANSI PATEL**  
BYJUS ACADEMIC  
SPECIALIST  
CTC – 6 LPA



**J. MANOJKUMAR**



**PALLE PARIMALA**



**RUSHIKESH PARDESHI**

Here are some of our students who got placed in reputed job profiles all over India



**SINDHU PRIYA**  
PHARMA ACE  
CTC-6.5 LPA



**MUFEEDA. M**  
BYJUS FACULTY  
CTC – 4.8 LPA



**ANJALI GARG**  
BYJUS FACULTY  
CTC – 4.8 LPA



**ARPIT KHANDELWAL**  
FIITJEE FACULTY  
CTC – 16 LPA




- Chemistry Association of Department of Chemistry organised Prof. Adusumilli Srikrishna Memorial Lecture by Dr. Beeraiah Baire, Associate Professor of Chemistry, Indian Institute of Technology Madras, Chennai on 20-02-2022 on "Acid Catalysed cascade reactions for rapid generation of complexity"

**Prof. Adusumilli Srikrishna Memorial Lecture**  
By  
**Dr. Beeraiah Baire**  
Associate Professor  
Department of Chemistry  
Indian Institute of Technology Madras, Chennai-600036  
DATE: 20-01-2022  
TIME: 4.30 - 5.30 PM  
Video call link: <https://meet.google.com/yjs-tmvp-dqr>

**Title of the lecture**  
"Acid Catalyzed Cascade Reactions for Rapid Generation of Complexity"

**Late Prof. Adusumilli Srikrishna, FNA**  
(1 Jan 1955 – 20 Jan 2013)  
Shanti Swarup Bhatnagar Awardee (1997)

**Organized by**  
CHEMISTRY ASSOCIATION, DEPARTMENT OF CHEMISTRY  
NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL-506004



- Chemistry Association of Department of Chemistry has organised a talk by **Prof. A. Ramachandraiah** on "**Einstein - A source of inspiration**" on the eve of 143rd birthday of Albert Einstein on 14th March 2022 at NIT Warangal
- Chemistry Association of Department of Chemistry has organised events namely **Extempore speech, Chem-o-story, Memestry** on various topics of chemistry in Technozion 2022 during 19-20th February 2022.
- **Ms. Nabanita Mandal**, from the Department of Biotechnology, NIT Warangal gave an oral Presentation on the topic "Evaluation of binding of small molecule inhibitors against SARS-CoV-2 Variants of Concern" at 5th International Conference on Advances in Biosciences and Biotechnology ICABB-2022 from **20th** to **22nd** Jan, 2022, organized by Department of Biotechnology, Jaypee Institute of Information Technology.
- **Ms. Nabanita Mandal**, from the Department of Biotechnology, NIT Warangal presented a poster on "Unravelling the binding affinity of SARS-CoV-2 VOCs using MD Simulations" at National Conference on Molecular Modelling and simulations, 2022, organized by VIT, Bhopal.
- **Mr. Addapala Pavan Kumar**, ECE (2021 passout) secured AIR-13 rank in GATE.
- **Mr. Aditya Rajapuram**, ECE (2021 passout) secured AIR-129 rank in GATE.
- **Mr. Amey Parnaik**, M. Tech Student, MME (Under the guidance of Prof. N. Narasaih) has been selected for Prime Minister's Research Fellowship (PMRF).
- Two of Photonics students **Venugopal (3rd year) and Himangi (2021 Passout)** are selected for PhD at Max Planck school of Photonics, Germany DE

## MOUs

- The NIT Warangal executed a MOU with **CMET Pune**, through the Department of Physics in the month of February, 2022.
- NIT Warangal executed a MOU with **Gaussian Optics**, Pune in the month of March 2022, through the Department of Physics.
- The NIT Warangal executed a MOU with **Infosys Ltd.**, through the Department of Computer Science and Engineering in the month of January 2022.

## NATIONAL SERVICE SCHEME (NSS) Activities

- **Event: CONSTITUTION DAY**

On the occasion of **Constitution Day**, NSS NITW organized a quiz competition in which nearly 70 students participated. The quiz has 40 questions and is conducted through Google forms.

- **Essay Writing Competition:** The essay writing competition received responses from 10 a.m. on December 21 to 6 p.m. on December 25. We have received 16 responses and the winner has been given a certificate.

**NSS NITW PRESENTS**  
ON THE OCCASION OF CONSTITUTION DAY

**ONLINE QUIZ COMPETITION ON CONSTITUTIONAL DEMOCRACY**

Win exciting Cash prizes  
WINNER: 500/-  
RUNNER UP: 300/-

26 - 11 - 2021 || 04 : 00 PM  
GOOGLE FORM, DURATION: 10 MIN

**National Constitution Day**

"IF I FIND THE CONSTITUTION BEING MISUSED, I SHALL BE THE FIRST TO BURN IT."  
DR. B. R. AMBEDKAR

**NATIONAL SERVICE SCHEME, NITW**  
**Essay Writing competition**

A drop of ink may make a million think

**TOPICS :**

1) ARE CONSTITUTIONAL VALUES UNDER THREAT?  
2) IF YOU GET A CHANCE TO REFORM THE CONSTITUTION OF INDIA, WHAT WOULD YOU DO?

**DEADLINE FOR SUBMISSION :**  
**25TH OF DECEMBER, 6:00 PM**

For any Queries  
Please contact  
KRUSHNA, 7499623310

- **26-December: Debate – Boon or Bane:** The debate took place on December 26<sup>th</sup>. The discussion started at 4 pm and lasted for 3 hours with 30 people. Winner will have to receive a prize money of Rs.500.
- **28-December: Treasure Hunt:** The Treasure Hunt took place on December 28 from 6 p.m. More than 60 members participated in this Treasure Hunt. Feedback from the participants was very good. Winner will have to receive a prize money of Rs. 500.

**NATIONAL SERVICE SCHEME, NITW**  
**TREASURE HUNT**

Your Instagram holds the key to treasure

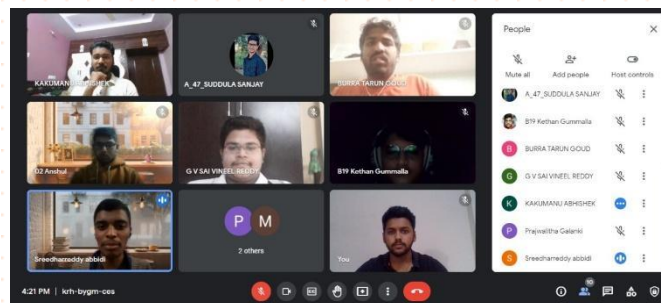
**WIN EXCITING CASH PRIZE**  
**WINNER : 500/-**

Date and Time : 28-DECEMBER || 6 PM  
Platform : INSTAGRAM

Guidelines will be sent to the registered candidates through mail.

**DEADLINE FOR REGISTRATION:**  
**25TH OF DECEMBER, 10:00 AM**

For any queries please contact  
SANJAY, 80748 13113  
AAKASH, 98480 22948



**NATIONAL SERVICE SCHEME, NIT WARANGAL**  
**DEBATE**  
**BOON or BANE**

**WIN EXCITING CASH PRIZE**  
**WINNER: 500/-**

DATE : 26th Of December  
PLATFORM : Google Meet

**DEBATE ON CONSTITUTIONAL DEMOCRACY AND CONTEMPORARY SOCIAL ISSUES.**

Topics will be sent to Registered candidates through gmail on 24th December .

**DEADLINE FOR REGISTRATION :**  
**23RD OF DECEMBER, 4:00 PM**

For any Queries Please contact  
ADARSH, 96522 12390  
ABHISHEK, 70327 10759

## Event: Youth Fest - 2022

### The Ultimate Skribbl Master: (09-01-2022)

It is a fun event organized by NSS to give refreshment to the tired minds of students who are facing really bad days due to this virtual life. Nearly 150 students participated in the event and enjoyed the event, created fun with their drawing and guessing skills!

Winner: Venkatesh (cash prize 1000/-)

Runner-up 1: Naimisha (cash prize 600/-)

Runner-up 2 : Navkaran (cash prize 400/-)

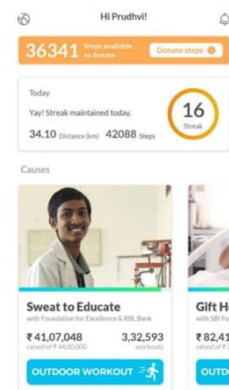
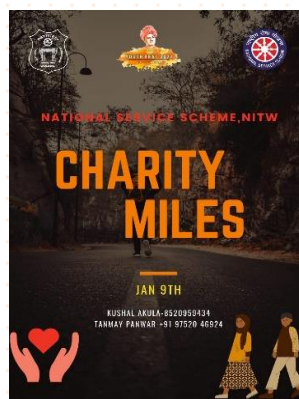
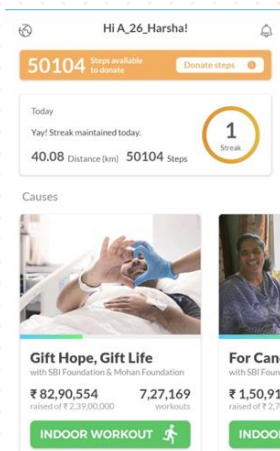


### Charity Miles: (09-01-2022)

Charity Miles is a program organised by NSS to raise awareness among young people about the importance of fitness and physical health. Nearly 140 members participated in this event. Our participants donated a total of Rs. 5500 to the Foundation through the Impact App by walking 1100 km in one day.

Winner: Akhil Reddy (cash prize 600/-)

Runner-up: Prudhvi (cash prize 400/-)



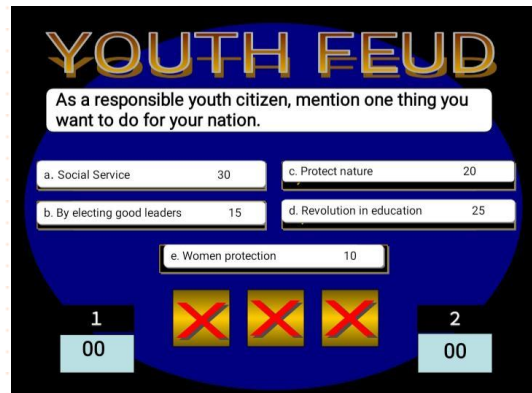
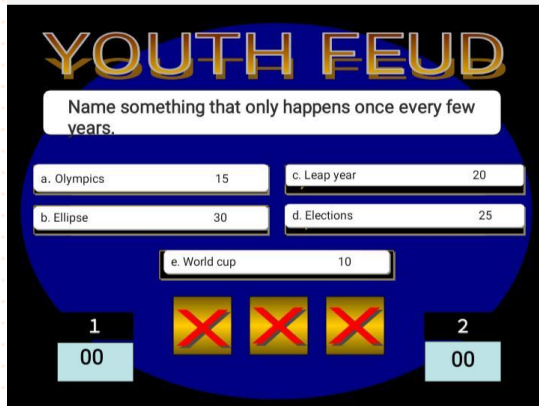
### **Youth Feud: (10-01-2022)**

NSS organized this Youth Feud program to gather the views of the youth on various issues and topics in India. We examined several surveys to manage this program. The event was attended by more than 60 members in 20 groups.

Winner : Team Trojans (cash prize 1000/-)

Runner-up 1 : Team Rasamalai (cash prize 600/-)

Runner-up 2 : Team Titans (cash prize 400/-)



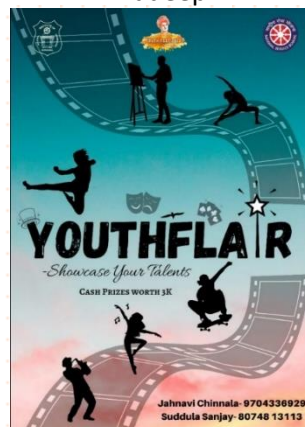
### **Youth Flair : (11-01-2022)**

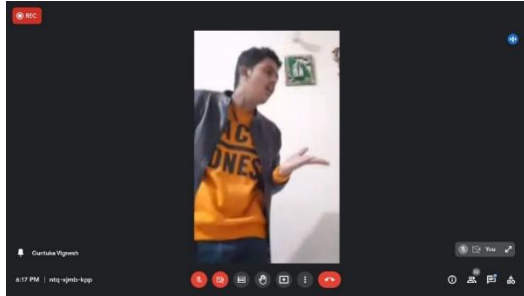
This event is conducted by NSS to create a stage for students to showcase their talents. Nearly 50 students participated in this event and flabbergasted us with their talents.

**WINNERS:** (Cash prize 300/- for everyone)

Vignesh  
Aditi Babu  
Apoorva  
Lenard  
Shashank

Nithya  
Srujan  
Aditi Sinha  
Sharanya  
Pradeep





**Inspiring Young Tales : (09-01-2022 to 12-01-2022)**

Inspiring Young Tales is a series of posts about successful persons from different backdrops and achieved their goals defeating many obstacles. This series is published to motivate our youth and to give them a moral support.

**Inspiring Young Tales #1**  
**TILAK MEHTA**

Young people willing to push super hard to make something happen are among the most powerful forces in the world.

One among such young talented minds is Tilak Mehta from Mumbai. He was 15 years old when he started his very own company.

Tilak Mehta is now a successful entrepreneur, founder of the startup or courier-based company Papers N Parcels. Tilak's vision is to "Make everyone's life easier no matter if they are a delivery partner, a Dabbawala or a loyal customer".

Tilak's net worth was crossed over 100 Crores rupees from only his smart idea. The number is increasing day by day as speedily spreading this company.

No Wonder, he won the Global Child Prodigy Award (which recognizes unique & talented children) and was among the Top 100 Prodigies List of 2020!

**PAPERS N PARCELS**  
 SAME DAY PICKUP - SAME DAY DELIVERY

**Inspiring Young Tales #5**  
**NEERAJ CHOPRA**

This story is about a military man who was aiming to be an athlete from his young age.

Neeraj Chopra was born in a middle class joint family in khandra village, Punjab.

When he was 9 he gained interest in Javelin throw by seeing few of his seniors playing in stadium.

That's the point where Chopra started dreaming and he trained himself for years.

Followed by he became the U-16 National Champion in the year 2012.

Later he gave an incredible performance in under-20 Junior World Championship (2016) with a world record of 87.58m throw.

**Inspiring Young Tales #3**  
**NAINA JAISWAL**  
 (THE YOUNGEST POST GRADUATE IN ASIA)

She is a table tennis national and international champion, born in 2000.

She's also a "Child Prodigy" who started undergoing PhD at the age of 17.

For Naina Jaiswal it has become some sort of a habit to be different from the rest of the crowd, a child prodigy indeed.

**Why she wants to finish her education early??**

Naina said, "I want to have ample time for sports. At 16 I want to finish my PG so that by the time I turn 20 I can concentrate on my practice and realise my dream of winning an Olympic Gold Medal for the country as well as start preparing for the UPSC exam."

**Inspiring Young Tales #2**  
**TEJASWINI MANOGNA**

Everything in this world has a certain boundary, except for talent.

Most successful people we see in our daily lives are successful only in one specific field. But, Dr. Tejaswini Manogna - MISS EARTH INDIA - 2019 is a doctor, dancer, yoga teacher, NCC cadet, social worker, beauty pageant contestant participant & winner.

She literally reached heights in all the fields she has chosen.

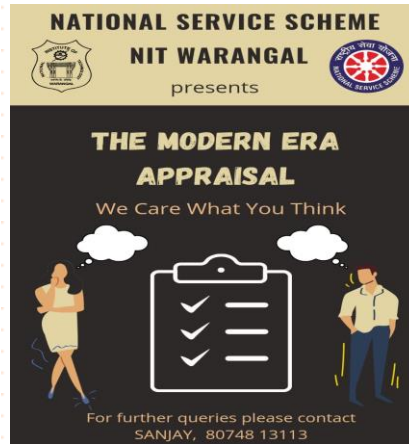
Tejaswini Manogna is from a simple, middleclass family in Hyderabad, has always been a prodigy but has faced her share of lows too.

**Event: National Girl Child Day**

On the eve of "**National Girl Child Day**", "**NSS-NITW**" carried out a series of activities with the central theme, GIRL CHILD.

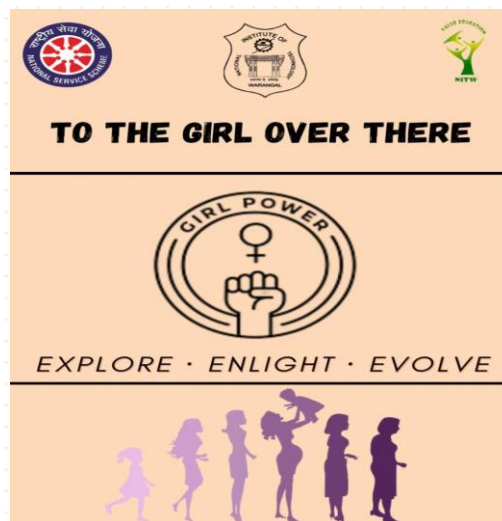
As part of this, a survey named "**The Modern Era Appraisal**" was conducted to know the opinions of the crowd regarding various aspects related to girls society. Nearly 100 members participated in this survey, and the survey results are shared through our social media platforms.

[https://www.instagram.com/p/CZH1UTkhElw/?utm\\_medium=copy\\_link](https://www.instagram.com/p/CZH1UTkhElw/?utm_medium=copy_link)



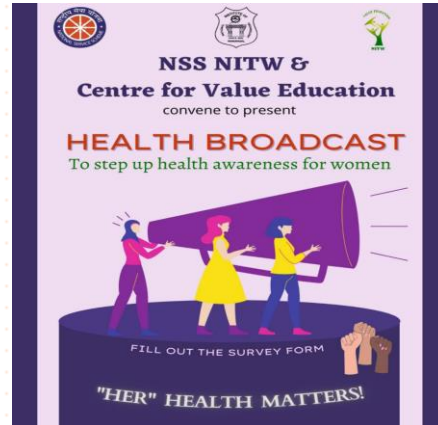
Another blasting event in collaboration with Centre for Value Education, "**To The Girl Over There**", pushed the people to come up with their own way to express the gratitude or the enormous feelings they have, or a message they want to share for a girl in their life. We have received overwhelming responses for this event and we have published them in our social media.

[https://www.instagram.com/s/aGlnaGxpZ2h00jE4MTQ1NzM2NDEzMjE4ODcx?utm\\_medium=copy\\_link](https://www.instagram.com/s/aGlnaGxpZ2h00jE4MTQ1NzM2NDEzMjE4ODcx?utm_medium=copy_link)



Also, NSS-NITW in collaboration with Centre for Value Education, lead a "**Health Broadcast**", a survey creating awareness and addressing the health issues of women to be taken care of. We have posted a thread on our social media including the questions asked by participants.

[https://www.instagram.com/p/CZHmpg1vdXV/?utm\\_medium=copy\\_link](https://www.instagram.com/p/CZHmpg1vdXV/?utm_medium=copy_link)



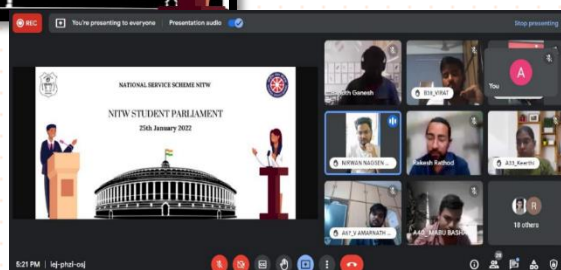
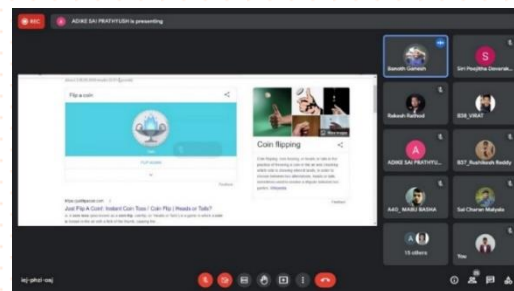
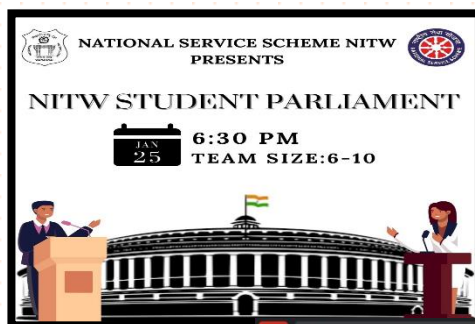
### Event: **REPUBLIC DAY**

This 25th, 26th January, 2022 on account of **Republic Day**, NSS came up with an event "**NITW Student Parliament**", with

- 16 Parties
- 128 Leaders
- 18 Bills
- 20 hours of Session
- 26 volunteers
- 19 WhatsApp groups

An Ultimate show of Knowledge, Fun and Skill!

It brought out the thinking capability of youth towards various national issues.



## Event: **DRUG AWARENESS DRIVE EVENT REPORT**

DRUG IS A BUG

SAY NO TO DRUGS!!!

BE SMART, DON'T START!

The main motto of the event is to spread awareness on "say no to drugs" and educate everyone on the malicious and hazardous effects of drugs. The complete event is of three parts, each part on each day. This event was a three days online event.



### 14-02-2022: PRESENTATION ON DRUGS

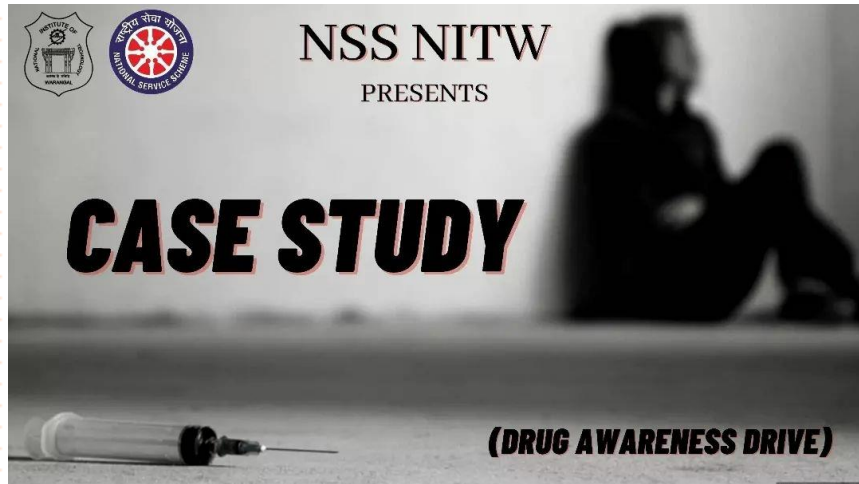


The first day of the event was a presentation on drugs on emerging and important topics like **youth and drugs, drug classifications, how drugs affect our health, statistics on drug abuse** and in the end **how to overcome the usage of drugs**.

The main objective of the presentation is to create awareness on drugs for the betterment of society.

### 15-02-2022: CASE STUDY

The second day of the event is about case study of HARRY (a drug addict and victim) as a part of drug awareness drive for the betterment of society. In the case study we covered topics like how did it get started and how did he overcome it.

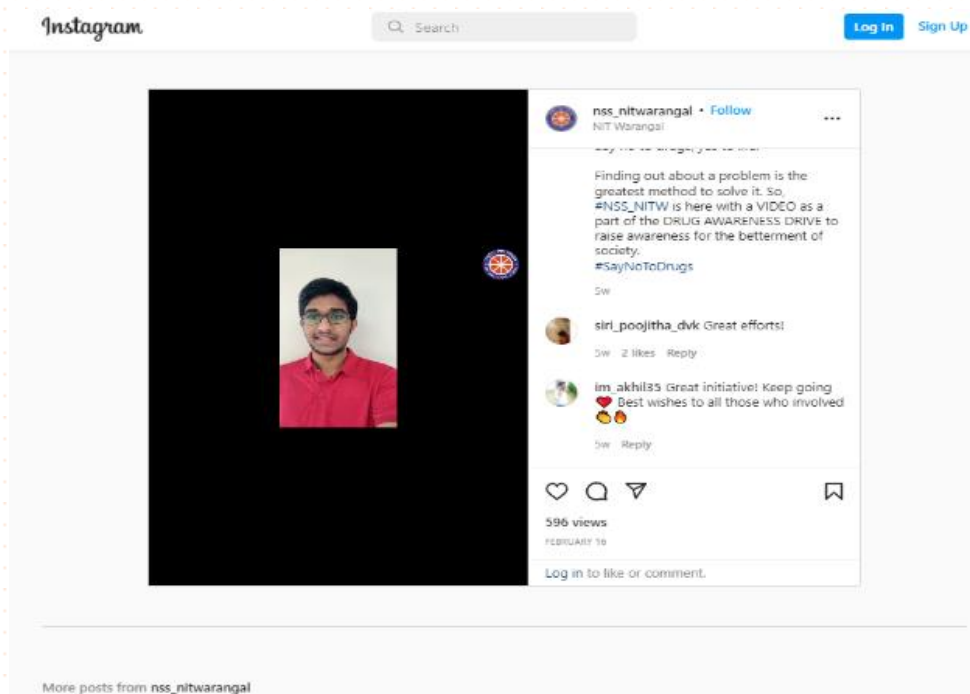


### 16-02-2022 : Video on drug awareness from members of NSS NITW

The last day of the event was a video which is about harmful effects of drugs which show massive effect in our lives.

The link for the video:

[https://www.instagram.com/tv/CaCygDAFkLB/?utm\\_medium=copy\\_link](https://www.instagram.com/tv/CaCygDAFkLB/?utm_medium=copy_link)



**Event: HOLI HUNT – 18-02-2022**

As you all know, under Holi Celebrations in campus, NSS NITW held a fun event – HOLI HUNT. We saw an overwhelming involvement from about 120 students and we are happy to hear that you enjoyed the event.



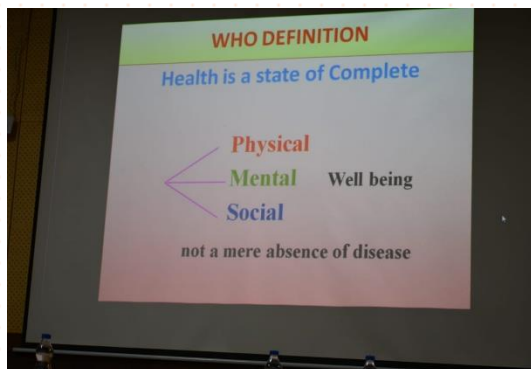
**Event: Mental Health Awareness – 22.03.2022**

We all have experienced being in a different state of mind some day or other, reason being unknown sometimes.

It's always suggestible to get to some professionals to learn better and be better.

Providing such a chance, NSS in collaboration with Springsree 2022, held a Mental Health Awareness Programme on 22-03-2022. As part of this, Dr. Bandari Jagadeesh Babu, psychiatrist, delivered peaceful of information to the students about one's mental health and is very much patient enough in clarifying all the doubts raised.

He shared several experiences from his field of work and gave many suggestions that are worth taking in.



## Research Highlights



Dr. K. Hari Prasad, Assistant Professor, Department of Chemistry and his research scholars has developed Rongalite-Induced Transition-Metal and Hydride-Free Reductive Aldol for the synthesis of biologically active 3,3'-Disubstituted Oxindoles. This work is accepted in a reputed journal "*Organic & Biomolecular Chemistry*" (Royal Society of Chemistry).

Rongalite-Induced Transition-Metal and Hydride-Free Reductive Aldol Reaction: A Rapid access to 3,3'-Disubstituted Oxindoles and Its Mechanistic Studies

Sivaparwathi Golla, Naveenkumar Anugu, Jalagam Swathi, Hari Prasad Kokatla\*,

*Organic & Biomolecular Chemistry*, 2021, accepted, [Impact Factor: 3.876]

DOI <https://doi.org/10.1039/D1OB02284A>

A transition-metal and hydride-free reductive aldol reaction has been developed for the synthesis of biologically active 3,3'-disubstituted oxindoles from isatin-derivatives using rongalite. In this protocol, rongalite plays the dual role of hydride-free reducing agent and C1 unit donor. This transition metal-free method enables the synthesis of a wide range of 3-hydroxy-3-hydroxymethyloxindoles and 3-amino-3-hydroxymethyloxindoles with 79-96% yields. One-pot reductive hydroxymethylation, inexpensive rongalite (ca. \$0.03/1g),

mild reaction conditions and short reaction time are some of the key features of this synthetic method. This protocol is also applicable to gram scale synthesis.



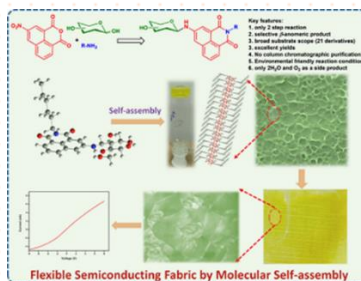
Dr. S. Nagarajan, Assistant Professor, Department of Chemistry and his team has Fabricated flexible semiconductors from amphiphilic N-glycosyl naphthalimides using molecular self-assembly. This work is accepted in a reputed Royal Society of Chemistry publishing journal "Green chemistry".

### A Facile Synthesis of Amphiphilic N-glycosyl naphthalimides and Fabrication of Flexible Semiconductor using Molecular Self-Assembly

Arun Kumar Rachamalla, Vara Prasad Rebaka, Tohira Banoo, Ravinder Pawar, Mohammad Faizan, Krishnamoorthy Lalitha, Subbiah Nagarajan\*

Green Chem., 2022, 24, 2451, [Impact Factor: 10.18]

DOI <https://doi.org/10.1039/D1GC04509A>



Using natural processes as a guiding tool, the scientific community is actively involved to achieve substantial advances at the interface of supramolecular chemistry and materials design. In this report, we have synthesized a series of amphiphilic N-glycosyl naphthalimides using environmentally benign protocols in good yields. For the first time, an exclusive formation of beta-anomeric product using ammonium sulfate catalyst, FDA approved GRAS chemical has been thoroughly investigated. To explore the potential of N-glycosyl naphthalimides in the field of supramolecular materials, molecular self-assembly studies were systematically performed in a wide range of solvents and found to form hydrogel, organogel and oleogel. The existence of molecular level interactions and assembly patterns were identified using FT-IR, NMR, SAXRD, UV-vis and Fluorescence spectral methods and proposed a suitable assembly mechanism. Morphology of supramolecular architecture with respect to the molecular structure was identified using optical microscopy and scanning electron microscopy. Rheological studies clearly disclose the strength of soft material and processability. Conductivity measurements on assembled thin films developed by drop casting of N-glycosyl naphthalimides reveals the semiconducting behavior. Interestingly, highly flexible semiconducting material derived by anchoring of gelator on cotton fabric through hydrogen bonding displayed enhanced conducting properties than the assembled thin film. The demonstrated flexible organic semiconducting material obtained via a more sustainable pathway would provide an opportunity to fabricate green electronics.



### వాలీ పోస్టర్ ఆవిష్కరణ

నవతలంగాణ-కాజీపేట

అజాదీ కా అమృత్ మహోత్సవంలో భాగంగా నిర్వహిస్తున్న వైజ్ఞానిక వారోత్సవాల వాలీపోస్టర్ను శనివారం నిట్ డైరెక్టర్ ఎస్వి రమణారావు ఆ క్యాంపస్ ప్రాంగణంలో ఆవిష్కరించారు. దేశానికి స్వాతంత్రం వచ్చి 74 ఏండ్లు పూర్తి చేసుకుని 75వ వసంతంలోకి వస్తున్న సందర్భంగా శాస్త్ర సాంకేతిక వ్యవస్థల్లో దేశ పురోగతి గురించి ప్రజలకు తెలియజేయడానికి ఈ వారోత్సవాలను నిర్వహిస్తున్నట్లు చెప్పారు. ఫిబ్రవరి 22 నుంచి 28 వరకు ఈ కార్యక్రమాన్ని జాతీయ స్థాయిలో 75 కేంద్రాలలో నిర్వహించనున్నట్లు పేర్కొన్నారు. తెలుగు రాష్ట్రాలలో నిట్ వరంగల్, తిరుపతి, విజయవాడ, విశాఖపట్నం, హైదరాబాద్ లలో స్కాప్ ప్రాజెక్ట్ ఆధ్వర్యంలో ఈ వారోత్సవాలు నిర్వహించనున్నట్లు తెలిపారు. విద్యార్థులు నేరుగా నిట్ వరంగల్ కి ఈ కార్యక్రమాన్ని తిలకించవచ్చని ఆయన పేర్కొన్నారు. ఈ కార్యక్రమంలో లోకల్ సెంటర్ కో-ఆర్డినేటర్ కష్టాసంద్, కో కో-ఆర్డినేటర్ ఆంజనేయులు, రామ చంద్రయ్య తదితరులు పాల్గొన్నారు.

### సాంకేతికతే.. దేశ ప్రగతి



**కాజీపేట, ఘంటారావమ:** దేశానికి స్వాతంత్ర్యం వచ్చి 75 సంవత్సరాలు గడిచిన సందర్భంగా ఆ సువర్ణ చరిత్ర ఘట్టాన్ని దేశం మొత్తం 'అజాదీ కా అమృత్ మహోత్సవం' సందర్భంగా జరుపుకోనున్నట్లు నిట్ కళాశాల యాజమాన్యం తెలిపింది. శనివారం కాజీపేట నిట్ కళాశాల లో నిట్ డైరెక్టర్ అధ్యక్షతన ఏర్పాటు చేసిన సమావేశంలో ఆయన మాట్లాడు తూ.. ఏ దేశ ప్రగతికి అయిన ఆ దేశం సాధించిన శాస్త్ర సాంకేతిక ప్రగతే ప్రధాన చోడక శక్తిగా మారుతుందని డైరెక్టర్ తెలిపారు. ప్రపంచంలో గొప్ప ఆర్థిక శక్తిగా భారత్ వెలిగిందని అన్నారు. అజాదీ కా అమృత్ మహోత్సవ సందర్భాలలో భాగంగా దేశంలోని శాస్త్ర సాంకేతిక వ్యవస్థలు ఫిబ్రవరి 22వ తేదీ నుండి 28వ తేదీ వరకు జాతీయ స్థాయిలో 75 కేంద్రాలలో "శాస్త్ర విజ్ఞానం సర్వత్రా ఘోషింయం" అనే నినాదంతో వైజ్ఞానిక వారోత్సవాలను జరుకుంటున్నట్లు నిట్ యాజమాన్యం తెలిపింది. వారం రోజుల పాటు జరిగే కార్యక్రమానికి పాఠశాలల, ఇంటర్ మరియు డిగ్రీ కళాశాలల విద్యార్థులు పాల్గొననున్నారని నిట్ యాజమాన్యం తెలిపింది. వైజ్ఞానిక వారోత్సవాలలో వారం రోజుల పాటు పుస్తక ప్రదర్శన, మేజిక్, సైన్స్ ఆధారిత చలన చిత్రాలు, సైన్స్ ప్రయోగాలు, ఛార్ట్ ఎగ్జిబిషన్, జాతీయ సంస్థల ప్రదర్శనలు ఉంటాయని అన్నారు. వారోత్సవాలకు చూడకునే వారు తప్పనిసరిగా కోవిడ్ నిబంధనలను పాటించాలని కోరారు.



### సైన్స్ వీక్ ఫెస్టివల్ ప్రారంభం

**వైజ్ఞానిక వారోత్సవం** అంశంగా నిట్ వరంగల్ లోని వాలీపోస్టర్ను 75 కేంద్రాలలో ఆవిష్కరించారు. దేశానికి స్వాతంత్ర్యం వచ్చి 74 ఏండ్లు పూర్తి చేసుకుని 75వ వసంతంలోకి వస్తున్న సందర్భంగా శాస్త్ర సాంకేతిక వ్యవస్థల్లో దేశ పురోగతి గురించి ప్రజలకు తెలియజేయడానికి ఈ వారోత్సవాలను నిర్వహిస్తున్నట్లు చెప్పారు. ఫిబ్రవరి 22 నుంచి 28 వరకు ఈ కార్యక్రమాన్ని జాతీయ స్థాయిలో 75 కేంద్రాలలో నిర్వహించనున్నట్లు పేర్కొన్నారు. తెలుగు రాష్ట్రాలలో నిట్ వరంగల్, తిరుపతి, విజయవాడ, విశాఖపట్నం, హైదరాబాద్ లలో స్కాప్ ప్రాజెక్ట్ ఆధ్వర్యంలో ఈ వారోత్సవాలు నిర్వహించనున్నట్లు తెలిపారు. విద్యార్థులు నేరుగా నిట్ వరంగల్ కి ఈ కార్యక్రమాన్ని తిలకించవచ్చని ఆయన పేర్కొన్నారు. ఈ కార్యక్రమంలో లోకల్ సెంటర్ కో-ఆర్డినేటర్ కష్టాసంద్, కో కో-ఆర్డినేటర్ ఆంజనేయులు, రామ చంద్రయ్య తదితరులు పాల్గొన్నారు.

☰ **మనం** 4/12 📶 📅 ⋮

### నిట్ వరంగల్ లో అంగరంగ వైభవంగా సైన్స్ వీక్ ఫెస్టివల్ ప్రారంభోత్సవ వేడుకలు

నిట్ వరంగల్, ఫిబ్రవరి 22, వసం పాస్టర్ 75 సంవత్సరాల భారత స్వాతంత్ర్య సమరాల సందర్భంగా అజాదీ కా అమృత్ మహోత్సవం అనే నినాదంతో ఈ 75 సంవత్సరాల ప్రధాన అంశంగా యెక్కి అభివృద్ధిని చిత్తం చేసుకుంటున్నాం. స్వతంత్ర దేశంగా అలాగే దేశ శాస్త్ర సాంకేతిక రంగా గురించి తెలుగు ప్రజల్లో చాలా ప్రాచీన భావన కలిగి ఉంది. అందుకే ఈ కార్యక్రమం నిట్ వరంగల్ లోని వాలీపోస్టర్ను 75 కేంద్రాలలో ఆవిష్కరించారు. దేశానికి స్వాతంత్ర్యం వచ్చి 74 ఏండ్లు పూర్తి చేసుకుని 75వ వసంతంలోకి వస్తున్న సందర్భంగా శాస్త్ర సాంకేతిక వ్యవస్థల్లో దేశ పురోగతి గురించి ప్రజలకు తెలియజేయడానికి ఈ వారోత్సవాలను నిర్వహిస్తున్నట్లు చెప్పారు. ఫిబ్రవరి 22 నుంచి 28 వరకు ఈ కార్యక్రమాన్ని జాతీయ స్థాయిలో 75 కేంద్రాలలో నిర్వహించనున్నట్లు పేర్కొన్నారు. తెలుగు రాష్ట్రాలలో నిట్ వరంగల్, తిరుపతి, విజయవాడ, విశాఖపట్నం, హైదరాబాద్ లలో స్కాప్ ప్రాజెక్ట్ ఆధ్వర్యంలో ఈ వారోత్సవాలు నిర్వహించనున్నట్లు తెలిపారు. విద్యార్థులు నేరుగా నిట్ వరంగల్ కి ఈ కార్యక్రమాన్ని తిలకించవచ్చని ఆయన పేర్కొన్నారు. ఈ కార్యక్రమంలో లోకల్ సెంటర్ కో-ఆర్డినేటర్ కష్టాసంద్, కో కో-ఆర్డినేటర్ ఆంజనేయులు, రామ చంద్రయ్య తదితరులు పాల్గొన్నారు.



## AZADI KA AMRIT MAHOTSAV: SCIENCE WEEK FESTIVAL COMMENCES AT NIT WARANGAL

Dr Srinivas Vooradi

Warangal, Feb 22: To celebrate and commemorate the glorious history of people, culture and achievements of progressive India as well as to create awareness among the Telugu people in their mother tongue about the fields of science and technology, Science Week Festival has commenced at the National Institute of Technology (NIT), Warangal.

This programme came into reality as a part of mission project "Science Communication Popularization and Extension (SCOPE)" by Vignan Prasar under the Department of Science and Technology (DST), Vignan Prasar has chosen NIT, Warangal to monitor the project headed by Prof. K. Lakshma Reddy, a senior professor of Chemistry at NITW. Prof. A Ramachandrababu, a retired professor of Chemistry, as the coordinator of the Project. The programme is being held as a part of the 'Azadi Ka Amrit Mahotsav'. Prof. B J Rao, Vice-Chancellor of Central University of Hyderabad, who was the chief guest, inaugurated the Science Week Festival here on Tuesday. Addressing the students of schools and colleges on the occasion, he



said the lifestyle of human beings had been completely transformed by technology. "As students and young minds you should acquire the skills, deep knowledge and don't limit yourself and expand your understanding and learning which occurs outside the class rooms," he added. Later, B J Rao inaugurated the EXPO exhibition, book exhibition, science experiments exhibition by various school students and forest department exhibition. He appreciated the effort of NITW for taking the responsibility of popularization of

science among the students. Emphasizing the importance of science and its impact on Indian economy, culture and society NITW Director Prof NV Ramana Rao said that the technological development seen in diverse fields was because of advancement of science which had a specific role and variety of functions for the benefit of the society. He pointed out that public understanding and engaging with science and citizen participation including the popularization of science would be essential to equip citizens to make informed personal and

professional choices. He said that in this connection NITW had taken an initiative as an outreach and community service under SCOPE to translate many scientific ideas into local language to distribute to the masses and to arrange Expo exhibitions on Science and scientists. He invited all the students from different schools and colleges to make use of the wonderful opportunity to understand the essence of science and technology in nation building. Prof K Lakshma Reddy presented a detailed overview of the importance and purpose of Science Week

Festival consisting of many expert lectures ranging from the annals of the history of Indian science to the milestones of modern Indian science and technology and scientific future of India in next 25 years. The event highlighted science movies, science magic and science experiments demonstration, poster exhibition of biography of scientists at NITW. Prof. A Ramachandrababu described that the main objective of the project was to inculcate scientific temper, spirit of inquiry and environmental awareness among the people through science communication in local language. Students from various schools and colleges visited the exhibitions and witnessed the beauty of science and were overwhelmed with joy. Students were enlightened with the science experiments demonstrated by NITW faculty of various departments. Visitors to the exhibition said that programmes were designed to enhance students' interest in science. In the afternoon, the students watched the online live inaugural function of Science Week Festival from Delhi. Prof Krishnanandam, Prof. Anjaneyulu, Dr. Kashinath, former DPO Parusubotham, Prof. Rajeshwar Rao and others were present at the event.

## సాంకేతిక మహోత్సవానికి వేళాయె

నెల 19 నుంచి టెక్నోజియాన్-22



కాజీపేట అధ్యక్షుడు: నిట్లో ప్రతి ఏడాది నిర్వహించే సాంకేతిక మహోత్సవం టెక్నోజియాన్ ను ఈ నెల 19 నుంచి 21వ తేదీ వరకు నిర్వహించనున్నట్లు నిట్ డైరెక్టర్ ఎన్.వి.రమణారావు తెలిపారు. స్థానిక నిట్ డైరెక్టర్ కార్యాలయంలో గురువారం ఏర్పాటు చేసిన సమావేశంలో టెక్నోజియాన్-22 పోస్టర్, వెబ్సైట్ ను నిట్ డైరెక్టర్ ఎన్.వి.రమణారావు ఆవిష్కరించి మాట్లాడారు. రెండేళ్లుగా కరోనా నేపథ్యంలో టెక్నోజియాన్ నిర్వహించలేదని, ఈ ఏడాది తొలిసారిగా వర్చువల్ పద్ధతిలో నిర్వహించనున్నట్లు తెలిపారు. 'టెక్నోజియాన్-22 టెక్ స్టేషన్' పేరిట నిర్వహించనున్నట్లు తెలిపారు. డీన్ స్టూడెంట్ వెల్ఫేర్, ప్రొఫెసర్ రవికుమార్, ప్రొఫెసర్ నర్సయ్య, విద్యార్థులు పాల్గొన్నారు.

## 19న 'నిట్' టెక్నోజియాన్ వర్చువల్ మోడల్ నిర్వహణ

కాజీపేట, ఫిబ్రవరి 10: ప్రతి ఏటా ఎంతో ఉత్సాహంగా జరుపుకునే నిట్ సాంకేతికోత్సవం (టెక్నోజియాన్ - 2022) ఈ నెల 19, 20 తేదీల్లో కరోనా నేపథ్యంలో వర్చువల్ మోడల్ నిర్వహించనున్నారు. ఇందుకుగాను గురువారం టెక్నోజియాన్ - 22 ఉత్సవ్ పోస్టర్ ను నిట్ డైరెక్టర్ ఎన్.వి.రమణారావు క్యాంపస్ లో ఆవిష్కరించారు. కరోనా కారణంగా రెండేళ్లుగా ఈ ఉత్సవం కొనసాగించలేకపోయామని, ఈ సారి వర్చువల్ గా 'టెక్ స్టేషన్' థీమ్ తో నిర్వహిస్తున్నామని డైరెక్టర్ తెలిపారు. కార్యక్రమంలో నిట్ స్టూడెంట్ డీన్ ప్రొఫెసర్ పులి రవికుమార్, టెక్నోజియాన్ ఫ్యాకల్టీ అడ్వయిజర్ ప్రొఫెసర్ ఎన్.నర్సయ్య, స్టూడెంట్స్ పాల్గొన్నారు.



పోస్టర్ ఆవిష్కరిస్తున్న దృశ్యం

## In a nutshell

Warangal

## NITW techfest to go virtual

The annual technical fest Technozion of the National Institute of Technology (NIT), Warangal, will be conducted on February 19 and 20 virtually. NITW Director, Prof N V Ramana Rao released a poster and launched website at the campus here on Thursday. "Due to Covid-19, the annual technical and cultural fests were not conducted during last two years," he said and added that the theme of this techfest is "Techstasy" which means "Euphoric Pursuit of Ideation."

**ఎలక్ట్రానిక్ మెటీరియల్స్ లో సహకార పరిశోధన కోసం సీమెట్(ఎంకాటి) - నిట్ (ఎన్ఐటి) వరంగల్ మధ్య అవగాహన ఒప్పందం**

నిట్ క్యాంపస్, ఏప్రిల్ 18, మనం మార్గం కేంద్రం వద్ద, సహకార పరిశోధన మొత్తం కాలం (మొత్తం 2) అధ్యయనం నిర్వహించబడుతుంది. ఈ ఒప్పందం ద్వారా, ఎలక్ట్రానిక్ మెటీరియల్స్ లో సహకార పరిశోధన కోసం సీమెట్ (ఎంకాటి) మరియు నిట్ (ఎన్ఐటి) మధ్య ఒప్పందం చేయబడింది. ఈ ఒప్పందం ద్వారా, ఎలక్ట్రానిక్ మెటీరియల్స్ లో సహకార పరిశోధన కోసం సీమెట్ (ఎంకాటి) మరియు నిట్ (ఎన్ఐటి) మధ్య ఒప్పందం చేయబడింది. ఈ ఒప్పందం ద్వారా, ఎలక్ట్రానిక్ మెటీరియల్స్ లో సహకార పరిశోధన కోసం సీమెట్ (ఎంకాటి) మరియు నిట్ (ఎన్ఐటి) మధ్య ఒప్పందం చేయబడింది.



**నైపుణ్యాల అభివృద్ధికి నిట్ ఒప్పందం**

సవతెలంగాణ-కాజీపేట ఎలక్ట్రానిక్ మెటీరియల్స్ లో సహకార పరిశోధన కోసం సీ మేట్ తో అవగాహన ఒప్పందం కుదుర్చుకున్నట్లు నిట్ డైరెక్టర్ ఎన్వీ రమణ రావు తెలిపారు. ఈ మేరకు ఆయన శనివారం సీ మేట్ డైరెక్టర్ జనరల్ డాక్టర్ బీబీ కాలేలు ఒప్పంద పత్రాలపై సంతకాలు చేశారు. ఈ కార్యక్రమంలో నిట్ డైరెక్టర్కు సలహాదారుడు సీఎన్ఆర్ కే ప్రసాద్, రిజిస్ట్రార్ ఎన్ గోవర్ధన్ రావు, భౌతిక శాస్త్ర విభాగం ప్రొఫెసర్ దినకర్, డాక్టర్ టీవీ అప్పారావు , డాక్టర్ అజీమ్, రాజీ తదిరులు పాల్గొన్నారు.

**సీ-మెట్ తో నిట్ ఒప్పందం**

నిట్ క్యాంపస్, మ్యూన్ టూటో: సీ-మెట్ సంస్థలో నిట్ కళాశాల విద్యార్థుల పరిశోధన నిమిత్తం పరస్పర ఒప్పందం (ఎంకాయా) కుదుర్చుకుంది. ఈ మేరకు శనివారం సీ-మెట్ సంస్థ ప్రతినిధులకు నిట్ సంచాలకులు ఆచార్య ఎన్.వి.రమణారావు ఒప్పంద పత్రాలు అందజేశారు. సీ-మెట్ సంస్థ ప్రతినిధులు టీవీ.కాళే, త్రినాథ్, డాక్టర్ ఎన్.రమణ, నిట్ డైరెక్టర్ సలహాదారులు సీఎన్ఆర్.ప్రసాద్, రిజిస్ట్రార్ ఆచార్య గోవర్ధన్ రావు, పలు విభాగాల ప్రొఫెసర్లు దినకర్, అజీమ్, రాజీ తదిరులున్నారు.



పలు ఈవెంట్లు వర్చువల్ గా ప్రారంభమయ్యాయి. టెక్నోజీ అనే టీం (అత్యంత ఉత్సాహం సాంకేతిక ఉత్సాహం) ఎంకాటి చేసుకొని సాంకేతిక స్పృహ అభివృద్ధిని సాధించాలి అని నిర్ణయించుకుంది. ఈ టీం సభ్యులు నిట్ క్యాంపస్ లో నిర్వహించబడుతున్న అభివృద్ధి కార్యక్రమంలో పాల్గొంటారు. ఈ కార్యక్రమంలో నిట్ క్యాంపస్ లో నిర్వహించబడుతున్న అభివృద్ధి కార్యక్రమంలో పాల్గొంటారు.

సాంకేతిక ఉత్సాహం-22(టిక్నోజీయన్)లో భాగంగా

**టెక్నోజీయన్ తో కొత్త ఆవిష్కరణలు**

- ▶ నిట్ డైరెక్టర్ ఎన్వీ రమణారావు
- ▶ వర్చువల్ గా ముగిసిన నిట్ టెక్నోజీయన్



కాజీపేట, ఏప్రిల్ 20: టెక్నోజీయన్ తో విద్యార్థులు కొత్త ఆవిష్కరణలు చేపట్టే అవకాశాలు ఎక్కువగా ఉంటాయని నిట్ డైరెక్టర్ ఎన్వీ రమణారావు అన్నారు. కొవిడ్ ధృష్ట్యా ఈ ఏడాది వర్చువల్ గా రెండు రోజులుగా నిర్వహించిన నిట్ టెక్నోజీయన్ - 2022 ఆదివారం ముగిసింది. ముఖ్య అతిథిగా హైదరాబాద్ ఐఐటీ డైరెక్టర్ టీఎన్ మూర్తిలు ప్రారంభించి మాట్లాడారు. ఈ యేడాది టెక్నోజీయన్ టెక్నోజీ టీమ్ తో పాటు పాఠశాలలో సాంకేతికోత్సవం అనే అర్చన నిర్వహించామన్నారు. ఇది సాంకేతిక ఔత్సాహికులకు మంచి అవకాశం అన్నారు. ఆన్లైన్ ఈవెంట్ లో నిట్, ఐఐఐఐఐఐ ఇతర సాంకేతిక సంస్థలకు చెందిన వారు పది వేల మంది పాల్గొన్నారు. ఆన్లైన్లో హాజరైన తెలుగు గాణ ఉన్నత విద్యా మండలి చైర్మన్ ఆర్ లింబూద్రి మాట్లాడుతూ... మార్పులను స్వాగతించడంతోపాటు వాటిని అనుకరించడానికి విద్యార్థులు సిద్ధంగా ఉండాలన్నారు. ఈ కార్యక్రమంలో ప్రొఫెసర్ ఫులి రవికుమార్, రిజిస్ట్రార్ ఎన్. గోవర్ధన్ రావు, ఆసిస్టియేట్ డీన్ ఎం.హీరాలాల్, స్టూడెంట్ కో-ఆర్డినేటర్ ఆర్. ప్రశాంత్ పాల్గొన్నారు.

**‘Never give up on your goals’**

**STATE BUREAU Warangal**  
Director, IIT Hyderabad, Prof BS Murthy urged students to have a focused goal with clarity on achieving it. He asked them not to give up the goal due to difficulties in the journey.  
“The mantra to achieve one’s goal is to have a dream, belief in himself/herself, and have a habit of inquisitiveness at every stage,” he said ad-

ressing the students at the valedictory ceremony on the last day of the Science Week festival held from February 22 at the National Institute of Technology (NIT) campus here on Monday.  
The ceremony commenced with garlanding the portrait of Dr CV Raman on the occasion of his birth anniversary. Nearly 40,000 students visited NIT Warangal during the science festival.

**Thin Film Tech centre at NIT-W**

SPECIAL CORRESPONDENT HYDERABAD

The National Institute of Technology, Warangal, and Gaussian Optix Pvt. Ltd., Pune, have signed a Memorandum of Understanding (MoU) for academic and research cooperation.

This was disclosed by NITW Director N V Ramana Rao and Gaussian Optix director Kishore Kumar Aitha.

NITW professor and advisor CRRM CSRK. Prasad; NITW Registrar S. Goverdhan Rao, professor D. Dinakar were among those present.

Gaussian Optix is into research, development and manufacturing of precision optics and electro optics and is serving industries like defence, aerospace, medical and research. Mr. Ramana Rao said the MoU will help in establishing an incubation centre for Thin Film Technology in NITW campus. It will also cover academic and research collaborations in the mutually interested areas, academic interactions and support leading to higher qualifications, exchange of academic and scientific information, exchange of students and faculty.



# 12<sup>th</sup> edition of CURA held at NIT Warangal



HANS NEWS SERVICE  
WARANGAL

THE 12th edition of CURA, the national level management meet of School of Management, National Institute of Technology, Warangal inaugurated on Friday, by the chief guest Prof. NV Ramana Rao, Director NITW.

Guest of honours Prof. P. Ravi Kumar, Dean students' affairs, N. Jayaram Vice president, TCS and Prof. M. Ravinder Reddy, Head of the Department, SOM.

Prof. NV. Ramana Rao, Director, addressed about the event, followed by Prof. P. Ravi Kumar and Mr. N. Jayaram. The head of SOM described the philosophy as well as the history of CURA during his address and Dr. Rahul Thengada took the event further



with his perspective about how CURA has evolved with time.

CURA consists of more than 10 management competitions, workshops and plethora of keynote speakers who share their experience with students from all walks of life and has been an integral part of NITW fests from

the past 12 years.

The event kicked off at 9 am hold in a virtual mode in line with the Covid 19 guidelines. The inaugural event lasted till 9:30 am and was celebrated with gaiety. Over 250 participants were present from different corners of the country.

శనివారం మార్చి 26, 2022

## వర్చువల్ మీట్ లో 'క్యూరా' ప్రారంభం

**నిట్ క్యాంపస్, న్యూస్ టుడే:** స్కూల్ ఆఫ్ మేనేజ్మెంట్, వరంగల్ నిట్ జాతీయ స్థాయి కార్యక్రమం 'క్యూరా' శుక్రవారం వర్చువల్ మీట్ ద్వారా ప్రారంభించారు. నిట్ సంచాలకుడు ఆచార్య రమణారావు ముఖ్య అతిథిగా పాల్గొని మాట్లాడారు. మేనేజ్మెంట్ విద్యార్థులు తమ పరిజ్ఞానాన్ని పొంపొందించుకోవడానికి ఆసక్తిగా ఉండాలన్నారు. విద్యార్థి వ్యవహారాల డీన్ ఆచార్య రవికుమార్, టీసీఎస్ వైస్ ప్రెసిడెంట్ జయరామ్, క్యూరా కోఆర్డినేటర్ రాధేష్, దేశంలోని 37 విద్యాసంస్థల నుంచి 250 మంది పాల్గొన్నారు. నేటితో ఈ మీట్ శనివారంతో ముగియనుంది.

# Telangana boy secures top rank in GATE '22

EXPRESS NEWS SERVICE  
@ Hyderabad

A B.Tech Chemical Engineering student from National Institute of Technology (NIT), Warangal, T Mani Sandeep Reddy has secured all India first rank in Graduate Aptitude Test in Engineering (GATE) 2022. The Indian Institute of Technology (IIT), Kharagpur declared the GATE 2022 results on Thursday.



Sandeep Reddy

Speaking to *Express*, a delighted Sandeep Reddy said: "I am feeling very happy that I achieved top rank in the national level exam. I prepared myself for GATE with the help

from my professors who guided me in the right way."

He also revealed that during campus selection he got offers from GAIL and other oil and gas companies. "I now have to take a call on whether to go in for masters or accept a job offer to gain experience," he said.

In addition to the GATE 2022 results, IIT Kharagpur also issued stream-specific qualifying and cut-off marks of students who took the examination. The cut-off marks for Chemical, Biotechnology, Computer Science, ECE, Electronics and Communication Engineering Streams are now available at [gate.iitkgp.ac.in](http://gate.iitkgp.ac.in)



న్యూస్ టుడే మాజీ సంపాదకత్వంలోని అధ్యక్షుడు, నిట్ ప్రెజ్డెంట్ ఎన్టీ రమణారావు, ప్రొఫెసర్లు

## వరంగల్ నిట్ స్టూడెంట్ కి 'గేట్' లో ఆలిండియా ఫస్ట్ ర్యాంక్

**మరో విద్యార్థికి 9వ ర్యాంకు**

అనేక విద్యార్థులు, ముఖ్యంగా ఇంజనీరింగ్ గ్రాడ్యుయేట్లు రిజల్ట్ వెంటనే తమ అప్లికేషన్ లో కోసం నిర్వహించే 'గేట్' 2022 పరీక్షలో మన స్టూడెంట్లు ఇండీయా ఆలిండియా 1, 9వ ర్యాంకులు సాధించారు. వరంగల్ నిట్ విద్యార్థి, మణి సందీప్ రెడ్డి గేట్ 2022లో ఆలిండియా మొదటి ర్యాంకు సాధించినట్లు నిట్ అధికారులు తెలిపారు. ప్రారంభానికి ముందు మణి సందీప్ వరంగల్ నిట్ లో టీటికె కెమికల్ ఇంజనీరింగ్ పై సీట్ ఆక్సెస్ చేశారు. అతని తండ్రి ప్రారంభానికి లో ఎంజీకె ఇంజనీరింగ్ పని చేస్తున్నారు. నిట్ ప్రెజ్డెంట్ ఎన్టీ రమణారావు, కెమికల్ ఇంజనీరింగ్ డిప్యూటీ మేనేజర్ డా. క్రీషాన్, ప్రొఫెసర్ శరీష్ సోనివాన్, నిట్ ప్రొఫెసర్లు మణి సందీప్ రెడ్డిని ఆలిండియా, అలాగే, గేట్ 2022 ఫలితాల్లో

మహారాజా లాల్ కిల్లా తో గూఢుడు పెంచిన తర్వాత నిరంజన్ మెటల్లర్జీలో ఇంజనీరింగ్ విభాగంలో ఆలిండియా స్టూడెంట్ 9వ ర్యాంకు సాధించారు. నిరంజన్ తండ్రి శ్రీనివాస్ పైనేలే లెక్చరర్ కాగా, తల్లి నిర్మల తో గూఢుడు అక్రమి, డిప్యూటీ కంప్యూటర్ పని చేస్తున్నారు. నిరంజన్ మహారాజాలోని డాక్టర్ ఎన్.జి.ఎల్.లో ఇంజనీరింగ్ పై సీట్ ఆక్సెస్ చేశారు. అతని తండ్రి రంగుల రమణారావు గేట్ 2022 ఫలితాల్లో ఆలిండియా మొదటి ర్యాంకు సాధించినట్లు నిట్ అధికారులు తెలిపారు. గేట్ 2022 ఫలితాల్లో ఇంజనీరింగ్ ఫస్ట్ ర్యాంక్ (https://gate.iitkgp.ac.in/)లో అందుబాటులో ఉన్నాయి. స్టూడెంట్ క్యాంపస్ లో 21 నుంచి డాన్ లోడ్ చేసుకోవచ్చు. పరీక్ష ఫైనల్ అప్డేట్ కిని మరచాడే ప్రజ్ లో అందుబాటులో ఉంచినట్లుగా అభ్యర్థులు అప్లికేషన్ పోర్టల్ లోకి లాగిన్ అయ్యి గేట్ అప్డేట్ కిని డాన్ లోడ్ చేసుకోవచ్చని తెలియజేశారు.

# Dedication yields good results: GATE-22 topper

**PULI SHARATH KUMAR | DC**  
WARANGAL, MARCH. 17

The All India 229 ranker in Graduate Aptitude Test in Engineering (GATE)-2021 Mani Sandeep Reddy of National Institute of Technology, Warangal, has won laurels and proved that commitment and dedication will yield good results in life. He secured the All India first rank in GATE-2022.

The Indian Institute of Technology announced GATE-2022 topper list for all 27 papers. Mani Sandeep Reddy from Hyderabad pursuing B.Tech fourth year in Chemical Engineering bagged the All India top rank.

Sandeep Reddy who keeps a positive mindset and believes in spontaneity in an interview with *Deccan Chronicle* shares his journey of achieving first rank in GATE-2022.

**DC: Congratulations for your performance in GATE 2022. Tell us about yourself.**

Thank you, I am from Hyderabad. My father is an electrical engineer, mother is a homemaker and my younger brother is studying 12th. I have a strong desire to pursue my Masters programme in one of the top colleges in India and get a good job in Public Sector Companies. So I started to prepare for GATE.

**DC: Was this your first attempt?**

No, this was my second attempt. In the third year of B.Tech in 2021, I made an attempt and got the 229th rank; and now in the second attempt I won the All India first rank.

**DC: What strategies have you adopted to become a top ranker**



**T. Mani Sandeep Reddy in GATE-2022?**

I used to prepare my own notes by searching various sources and mainly focused on the subjects taught by my professors.

**DC: Have you taken any coaching?**

No, I did not take any coaching. I prepared on my own and I took help from my professors whenever I had any doubt.

**DC: Which books did you follow?**

I preferred self-study and did not follow any book. I only concentrated on my regular subjects of the B.Tech chemical engineering course which I am pursuing in NITW.

**DC: How did you relieve yourself from study pressure?**

My family has been very supportive. Whenever time permitted, I used to listen to music and even went out with friends. I never experienced pressure. Since the classes were going online due to Covid-19 pandemic, there was no pressure to attend classes in the college.

**DC : Any advice for future aspirants?**

One should be relaxed and must focus mainly on the B.Tech subjects and avoid social media during the preparation. Pursue your studies with fun and do not take much pressure. Downfalls are part of life and they teach us how to become successful.



## చల్లచల్లని ఇటుకలు..

వేసవిలో ఇంట్లో నాలుగ్గోడల మధ్య ఉండాలంటే భరించలేనంత వేడితో అల్లాడిపోతుంటాం. ఈ నేపథ్యంలో వేసవి పూట ఇళ్ళు చల్లగా ఉండటానికి వరంగల్ ఎన్ఎస్ఐలో సివిల్ ఇంజనీరింగ్ విభాగం ఆసిస్టెంట్ ప్రొఫెసర్ డాక్టర్ శశిరాం ప్రత్యేక ఇటుకలను రూపొందించి లాభత ప్రభుత్వం నుంచి పేటెంట్ను పొందారు. బొగ్గు నుంచి తయారైన బూడిదను తక్కువగా వినయోగించి, వ్యవసాయ వ్యర్థాలు, కలప మిశ్రమం కలిపి తక్కువ ఖర్చుతో వీటిని రూపొందించారు. వీటిని 'కే ఫైర్ బ్రెండ్డ్ యాష్ బ్రిక్స్' అని పిలుస్తారు. సాధారణంగా మట్టితో చేసిన ఎరుపు ఇటుకల్లో ఉష్ణవాహకం మెట్రిక్ టెల్వీన్లో 1.2 వాట్ వరకు ఉంటే.. వీటిలో 0.5 ఉష్ణవాహకం మాత్రమే ఉంటుందని, దీని వల్ల వేడి తగ్గి గది చల్లగా ఉంటుందని ఆసిస్టెంట్ ప్రొఫెసర్ తెలిపారు. ఈ పరిశోధనను నాగ్ పుర్ లోని పీఎన్ఐటిలో తన పీహెచ్.డిలో భాగంగా చేశానని, 2017లో దరఖాస్తు చేసుకుంటే ఇటీవలే పేటెంట్ను వచ్చిందని డా.శశిరాం వివరించారు.

-ఈనాడు, వరంగల్

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## డ్రగ్స్ వాడొద్దు.. సూసైడ్స్ చేసుకోవద్దు

డ్రగ్స్, సూసైడ్స్ నివారణపై వరంగల్ నిక్ స్టూడెంట్లు ఆదివారం అవగాహన ర్యాలీ నిర్వహించారు. 'ప్రింగ్ ప్రి' ఉత్సవాల్లో భాగంగా యాంటీ డ్రగ్స్, యాంటీ సూసైడ్స్ పేరుతో నిక్ నుంచి హనుమకొండ కలెక్టరేట్ వరకు ర్యాలీ తీశారు. నిక్ డైరెక్టర్ ఎన్సీ రమణారావు జిందా ఉపి, ర్యాలీని ప్రారంభించగా సుమారు 120 మంది ఎన్ఎస్ఐవ్ స్టూడెంట్లు పాల్గొన్నారు. మత్తుకు దూరంగా ఉండాలని, నమస్కలు ద్వారా ఎదుర్కోవాలి తప్పా ఆత్మహత్యలు చేసుకోవద్దని సూచించారు.

- కాజీపేట, వెలుగు

# Over 1,000 NIT Warangal students land lucrative jobs

P LAXMA REDDY  
Warangal

A total of 1,016 students from the National Institute of Technology, Warangal (NITW) landed jobs in different companies including multi-national firms this academic year through campus placements. While 839 students bagged jobs in the last academic year, this year the number crossed the 1,000 mark.

Due to the pandemic, the campus drives were conducted virtually. Nearly 250 companies visited the campus this year to hire talented students. In all, over 630 B.Tech and over 370 post-graduate students got placed in different companies. The top job offers were bagged by Gaurav Singh and Priyansh Maheshwari of B.Tech (CSE) final year,

**Two students get placed with DE Shaw for Rs 62.5L each per annum. In all, over 630 B.Tech and 370 PG students got placed**

who got placed with DE Shaw which offered them a salary package of Rs 62.5 lakh per annum each. Debrup Mondal was also offered Rs 57.5 lakh per annum by DE Shaw, while 15 students were placed in Microsoft which offered a salary package of Rs 45 lakh per year. While 50 students secured jobs in Oracle with a package ranging from Rs 27 lakh to Rs 32 lakh per year, 24 students got jobs in Qualcomm with a package of Rs 25 lakh to Rs 32 lakh

per annum. "The number of students who got packages with more than Rs 20 lakh per annum is 220, and the average package is Rs 14.5 lakh per annum," said NITW Director N V Ramana Rao. A total of 630 out of 700 eligible B.Tech students got placed, while 386 out of 677 eligible P.G students (Includes M.Tech, MBA, MCA, M.Sc) got placed, and more than 450 pre-final year students received internship offers from different companies. "The stipend varies from Rs 20,000 to Rs 1.60 lakh," said Centre for Career Planning and Development, Head Dr Kiran Kumar K. Some top recruiters included DE SHAW, Microsoft, Meshoo, Arcesium, Oracle, Service now, Uber, Qualcomm, GoldmanSachs, Amazon, Adobe, among others.

## నిట్లో శిష్టి థీమ్ ఆవిష్కరణ

కాజీపేటమార్చి 20 ప్రభుత్వ న్యూస్...జాతీయ సాంకేతిక విద్యాలయం నిట్ వరంగల్ లో ప్రతి సంవత్సరం విద్యార్థులచే నిర్వహించబడే స్పిర్ట్ స్పీడ్ వేడుకలు ఈ సంవత్సరం అంగరంగ వైభవంగా నిర్వహిస్తుండగా వేడుకల థీమ్ ఆవిష్కరణ కార్యక్రమాన్ని ఆదివారం నిట్ ప్రధాన భవనం ఎదుట నిర్వహించగా ఈ కార్యక్రమానికి ముఖ్యఅతిథిగా నిట్ డైరెక్టర్ ఎన్వి రమణరావు హాజరయ్యారు. ముందుగా విద్యార్థులు నిర్వహించబడిన సాంస్కృతిక కార్యక్రమాలు విద్యార్థులను ఎంతగానో ఆకట్టుకున్నాయి. థీమ్ ఆవిష్కరించిన అనంతరం నిట్ డైరెక్టర్ రమణరావు మాట్లాడుతూ కరోనా విజృంభిస్తున్న నేపథ్యంలో నిట్ వరంగల్ లో ఆన్ లైన్ లో తదితర కార్యక్రమాలను నిర్వహించామని తెలిపారు. రెండు సంవత్సరాల తర్వాత తొలిసారిగా ప్రత్యక్ష కార్యక్రమాలు నిర్వహించడంలో స్పిర్ట్ స్పీడ్ 22 వేడుక కానుందని తెలిపారు. జాతీయ



కార్యక్రమంలో పాల్గొన్న నిట్ డైరెక్టర్

స్థాయిలో వివిధ ప్రాంతాల సంస్కృతి సంప్రదాయాలను పంచుకునేందుకు స్పిర్ట్ ప్రీ వేదిక కానుంది అని తెలిపారు. స్పిర్ట్ స్పీడ్ కార్యక్రమంలో భాగంగా విద్యార్థులు ఆదివారం ఫ్లాష్ మాబ్ నిర్వహించారని తెలిపారు. ఏప్రిల్ 8 9 10 తేదీలలో మూడు రోజులు కార్యక్రమం నిర్వహిస్తున్నామని తెలిపారు. విద్యార్థుల ప్రతిభను వెలికి తీసే కార్యక్రమాలు నిట్ లో నిర్వహించడం ఎంతో సంతోషంగా ఉందని నిట్ డైరెక్టర్ తెలిపారు. ఈ కార్యక్రమంలో ప్రాఫెసర్లు కిరణ్ కుమార్ పులి రవి విద్యార్థులు ఇతరులు పాల్గొన్నారు.

