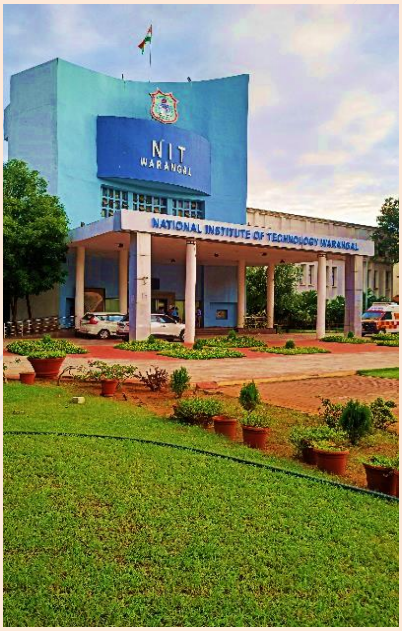
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BEACON RAY

A quarterly newsletter of NIT Warangal







PROF. N. V. RAMANA RAO

Director

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Director's Foreword



Dear Friends,

Greetings!

Hope you all and your family members are doing well. With the support of all the stakeholders, the Institute has done reasonably well on all fronts in the current academic year 2022-23. The physical mode of the academic activities has been going well in the Institute during the second semester of this academic year with the receding of the corona waves. The initial fears of the corona threats were surpassed with the enthusiasm shown by the faculty and staff members, and of course the students. I congratulate the Dean (Academic) and his team for their untiring efforts in seeing to it that the academic year is successfully continued as per the academic calendar despite the odd difficulties faced during the transition of the academic activities from the online to offline mode. It's indeed very happy to note that our Institute is doing exceedingly well in arranging the campus placements for the current academic year 2022-2023. A record number of UG and PG students are selected with attractive packages in the academic year 2022-2023 with the highest package of 88 lakhs per annum. I congratulate the Head, CCPD and his team for this appreciable achievement.

Some of our faculty colleagues were sanctioned prestigious R&D projects worth Rs. 2.75 crore from different external agencies in the recent past. Congratulations to all these faculty colleagues. Similarly, a few more patents have been filed and published. Special congratulations to all these faculty colleagues. I am sure this will definitely make an impact on the NIRF ranking of NITW to move forward in the forthcoming NIRF rank-list when compared to the previous rank among the engineering colleges of the country in the recently announced NIRF-2022 rankings.

The Institute is giving lot of importance in strengthening the human resources by periodic recruitments. I am happy to inform that nearly 110 non-teaching posts have been filled up in the recent past. I am sure with the addition of these non-teaching staff, the laboratory teaching and research in the Institute will be further strengthened. I congratulate the Registrar and his team for successfully completing this long–due

recruitment process of the Non-Teaching Staff. I am extremely happy to inform that another round of Faculty Recruitment was successfully completed in the last few months. Around 228 internal faculty members are upgraded and 12 new faculty members are recruited in this recruitment process. Currently the faculty strength of the Institute has increased to 316. I congratulate the Dean (Faculty Welfare) and his team for working on the fourth-round recruitment of the faculty members.

I congratulate the Registrar and the Doctors of the Institute Health Center for their efforts in conducting various awareness programs on healthy life style and arranging the visits of specialist doctors.

The new academic year 2022-23 is going well. The end semester examinations were conducted for all the students in physical mode and results were passed by the senate. All arrangements are being made for the smooth conduct of the academic programs as per the academic calendar.

I congratulate the Editorial Board of the Institute Newsletter "BEACON RAY" for compiling all the details and bringing out this edition. Finally, it is important to note the fact that Academics blended with R&D and Patents is the only way to success for any Institute of Higher learning and our Institute is no exception to this. Financial Self-reliance is going to be the order of the day in the near future. Efforts are being made to develop a strategy in this direction for the all-round growth of the Institute and improve the rankings. Let us all resolve to work hard and take the Institute to greater heights.

With best wishes,

Prof. N. V. Ramana Rao

Director

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NITW

PROJECTS

1. **Dr Perugu Shyam** has received a project entitled "Anti – HIV potential of novel compounds as HIV-1 reverse transcriptase inhibitors: a computational approach" worth Rs.26 Lakhs from ICMR-RA

2. 2. **Dr. Hari Prasad Kokatla** has received a project entitled "Transition Metal-Free C(sp2)–H methylenation of Heterocycles by Rongalite: A rapid access to C1-Homologation" worth Rs. 44.0 Lakhs from SEB under the scheme of EEQ); Role: Principal Investigator. Duration: 2022-25.

3. **Dr. Hari Prasad Kokatla** has received a project entitled "Rongalite-induced Consecutive C1-Homologation/Fluorination Strategy for selective fluorination of Organic molecules" worth Rs. 40.0 Lakhs from DST-SEB- under the scheme of Special Call for Proposals (Selective Fluorination Strategies); Role: Principal Investigator. Duration: 2022-25.

4. **Prof. Dr D Haranath** has received a project entitled **"**Development of Rare-Earth Free Long Afterglow Phosphors for Signage and Strategic Road Safety Marking Applications" CRG/2021/007142 worth Rs 32.58 Lakhs from DST-SERB.
5. **Dr. P. Subash Chandra Bose/Dr. K. Madhumurthy/Dr. C. S. P. Rao/ Dr. N. Selvaraj** Laser Assisted Machining of Ceramic, Ceramic Composites and process. Optimization, worth Rs. 45.99Lakhs from ASMREB.
6. **Dr. Y. Ravi Kumar/Dr. S. Srinath/Dr.K.Raghu**, "Development of 3d printable composite thermal shields using photocure short fibre nano hybrid resins through reactive additive manufacturing process" worth Rs. 30.9 Lakhs from SERB.
7. **Dr.P.Vamsi Krishna/ Dr.G.Venkatesh,** "Performance enhancement of orthopaedic implants with Rotary Ultrasonic Assisted Abrasive Flow Machining (R-UAAFF)" worth Rs. 33.63 Lakhs from SERB-CRG.
8. Development of real time hardware in loop model for robust load frequency controller for renewable energy rich interconnected microgrids with V2G control and uncertainties, **Dr. I. Satish Kumar** (PI), DST-SERB, 16 Dec 2022, Grant Amount: 45.98 Lakhs.
9. Development of Smart Electric Grid Laboratory, DST-FIST, Grant amount: 94 Lakhs, 19 Dec 2022, **Dr. I. Satish Kumar (PI)**, Prof. M. Sailaja Kumari, Prof. NV Srikanth, Dr. A. Kirubakaran and Dr. K. Anil Naik are Co-PIs.

PATENTS

1. **Dr. B. Srinivas**, The Patent Application no: 202241053187 titled "A method for synthesis and development of the therapeutic agents in treating tuberculosis using quinolinyl spiro quinazolinone oxidiazole"
2. **Sushil Kumar** Smart cloud-based security and privacy system for preventing collision of automated and self-drive vehicle (patent granted)

Recognition:

3. **Dr. Sanjaya Kumar Panda**, Assistant Professor, Department of CSE is listed in the top 2% of world scientists in a single year impact as per the survey conducted by Stanford University, USA and Elsevier, in October 2022.
4. **Suresh Periyannan, and K. Balasubramaniam,** has obtained an Indian Patent Title: "Integrated Thermocouple Waveguide Sensor System And Method - To Measure Physical Properties Of Waveguide Material And Surroundings" patent number: India, 394597, 2022
5. **Dr. Neerukonda Rama Devi, Dr. D. V. S. S. Siva Sarma, Dr. G. Ravi Kumar and Dr. M V Ramesh** the Patent Application no: 415030 titled "Invention entitled Detection of stator incipient faults and identification of faulty phase in three-phase induction motor" in 21/12/2022
6. **Dr. Srikanth Korla,** Akash Paidalwar, Shubham Awasthi,Saumy Agarwal the Patent Application no: 409487 entitled "Dual Security Pad Lock" 20/10/2015
7. **Prof. M. Heeralal, Dr. M. Shashi, Dr. Sanjit Biswas** and V.P. Gannavaram, has filed patent with application no. 367055-001.
8. **Dr. Manish Pandey** has Filed patent on Sediment flusher (filed); Application no.:371917-001 (Indian Patent); filed date: 10/09/22.
9. **Dr. Manish Pandey** has Filed patent on Airfoil collar (filed); Application no.:370637-001 (Indian Patent); filed date: 02/10/22

JOURNAL PUBLICATIONS (Peer-reviewed)

1. Jeevanandam, J., Paramasivam, E., **Palanisamy, A**., Ragavendran, S., & Thangavel, S. N. (2022). Molecular insights on bioactive compounds against Covid-19: A Network pharmacological and computational study. Current computer-aided drug design, 10.2174/1573409918666220914092145. Advance online publication. https://doi.org/10.2174/1573409918666220914092145 (I.F.:1.5)
2. Vivek Narisetty, **Ashish A Prabhu**, Rajesh Reddy Bommareddy, Rylan Cox, Deepti Agrawal, Ashish Misra, M Ali Haider, Amit Bhatnagar, Ashok Pandey, Vinod Kumar. Development of Hypertolerant Strain of Yarrowia lipolytica Accumulating Succinic Acid Using High Levels of Acetate, ACS sustainable chemistry & engineering (2022), 10 (33), 10858-10869. (I.F: 9.22)
3. Vivek Narisetty, Nidhi Adlakha, Navodit Kumar Singh, Sudipt Dalei, **Ashish A Prabhu**, Sanjay Nagarajan, A Naresh Kumar, Joseph Amruthraj Nagoth, Gopalkrishnan Kumar, Vijai Singh, Vinod Kuma, Integrated biorefineries for repurposing of food wastes into value-added products, Bioresource Technology, 127856. (I.F: 11.89)
4. Ratan Das, Prahlad Deb, Himanshu Pandey, **Perugu Shyam,** Devendra Singh. Botanical synthesis of silver nanoparticles (AgNPs) and its antifungal effect against Alternaria porri causing purple blotch of onion: An in vitro and natural epiphytic study. Journal of Agriculture and Food Research 10 (2022) 100390. https://doi.org/10.1016/j.jafr.2022.100390.
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6. Momina shanwaz mohammad, **Shyam Perugu**. Synthesis of Silver Nanoparticles from Vitex negundo Plant by Green Method and their Bactericidal Effects. Letters in applied nano bioscience, 12, 2, 2022, 59. https://doi.org/10.33263/LIANBS122.059.
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12. 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

13. 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.

14. Vydehi KV and **Arif Ali Baig Moghal** (2022). Effect of Biopolymer Inclusion and Curing Conditions on the Failure Strain and Elastic Modulus of Cohesive Soil. In: Muthukkumaran, K., Sathiyamoorthy, R., Moghal, A.A.B., Jeyapriya, S.P. (eds) Ground Improvement Techniques. IGC 2021. Lecture Notes in Civil Engineering, Vol 297, pp. 257-264. Springer, Singapore. https://doi.org/10.1007/978-981-19-6727-6_23.

15. "Ground Improvement Techniques". Editor(s) Kasinathan Muthukkumaran, Rajesh Sathiyamoorthy, **Arif Ali Baig Moghal**, S.P. Jeyapriya. Proceedings of the Indian Geotechnical Conference 2021 Volume 3, 2023.ISBN: 978-981-19-6726-9. Publisher: Springer Singapore. https://link.springer.com/book/10.1007/978-981-19-6727-6.

16. "Environmental Hydraulics, Turbulence and Sediment Transport, Volume II" in Fluids (MDPI) Editor(s): Special Issue by Jaan H. Pu, Prashanth Reddy Hanmaiahgari, **Manish Pandey** and, Mohammad Amir Khan.

17. **Polisetty Venkateswara Rao** "Diploma in Smart City Development and Management" published by IGNOU 2022.

18. Sneha A. Korpe, Vividha Landge, Vikas S. Hakke , **P. Venkateswara Rao** , Shirish Hari Sonawane, Shriram S. Sonawane Chapter: 14: Advanced oxidation processes for tannery industry wastewater treatment, Book Title: Novel Approaches towards Wastewater Treatment and Resource Recovery Technologies, Elsevier, 2022. https://doi.org/10.1016/B978-0-323-90627-2.00002-2

19. Vividha K. Landge, Vikas S. Hakke, Sneha A. Korpe, **P. Venkateswara Rao**, Shirish Hari Sonawane, Shriram S. Sonawane, Grzegorz Boczkaj Chapter: 12: Hybrid systems using hydrodynamic cavitation/ultrasound/ Fenton processes for effective treatment of wastewater, Book Title: Novel Approaches towards Wastewater Treatment and Resource Recovery Technologies, Elsevier 2022. https://doi.org/10.1016/B978-0-323-90627-2.00003-4

20. Sridhar Pilli, K. Bella, Y. Manojkumar, Vasam Vinila, **Venkateswara Rao Polisetty** Chapter 6: Anaerobic Digestion of Dairy Industry Wastewater, Book Title: Renewable Energy Technologies for Energy Efficient Sustainable Development, published by Springer 2022. DOI: 10.1007/978-3-030-87633-3_6

21. Sridhar Pilli, Bella Kunnoth, Sagarika Mothe, **Polisetty Venkateswara Rao** Chapter 18: Life cycle assessment of various anaerobic digestate management technologies, Book Title: Anaerobic Digestate Management, IWA publishing 2022. https://doi.org/10.2166/9781789062755_0385

22. Muramreddy Jugal Sukhesh**, Polisetty Venkateswara Rao** Chapter: Anaerobic digestion of solid organic waste to generate biogas, Book Title: Biological/Bio-Chemical Approaches for Solid Waste Management: The way forward – Volume II, CRC Press 2022. https://doi.org/10.1016/j.bcab.2018.08.007

23. **Manish Pandey**, Hazi Azamathulla and Jaan H. Pu. edited book - River Dynamics and Flood Hazards (ISBN: 978-981-19-7099-3) Published by Springer.

Conferences/FDPs/STTPs/Workshops organized

1. **Dr. Perugu Shyam,** Coordinator for the National Conference on Trends in Biotechnology Organized by TAB, Biotechnology on 18.10.2022.

2. **Dr. Surajbhan Sevda and Dr. Soumya Lipsa Rath** Coordinators for the Advances in Biological Wastewater Treatment Methods: Teaching and Learning Strategies Organized by Teaching Learning Centre and Department of Biotechnology, NIT Warangal on Dec 5-9, 2022.

3. **Prof. K. Laxma Reddy organized** Two-Day workshop for students of Journalism and Mass Communication on "Role of the Print and Electronic Media for Science Popularization in AP and Telangana" on 28-29, October, 2022 at Acharya Nagarjuna University, Guntur

4. **Prof. K. Laxma Reddy organized** Two-Day workshop for students of Journalism and Mass Communication on "Role of the Print and Electronic Media for Science Popularization in AP and Telangana" on 4-5, November, 2022 Osmania University, Hyderabad

5. **Prof. K. Laxma Reddy organized** Two- Day workshop on "Science Popularization through Community Radio" on 15-16, December, 2022 at SV College of Engineering, Tirupati

6. **Prof. K. Laxma Reddy, Chaired a session at the National Conference on** "Recent Advances in Chemical and Environmental Sciences' ' (RACES-2022) at Kakatiya Government Degree College, Hanumakonda on 21.09.2022.
7. **Dr. M. Raghasudha, Chaired a session at the National Conference on** "Recent Advances in Chemical and Environmental Sciences' ' (RACES-2022) at Kakatiya Government Degree College, Hanumakonda on 22.09.2022.
8. **Dr Manjaiah M** International organized 1st International Conference on Sustainable Technologies and Advances in Automation, Aerospace and Robotics (STAAAR) Mechanical engineering department on 16-12-2022.
9. **Dr. Gangadharudu Talla** organized 2nd Indian International Conference on Industrial Engineering and Operational Management (IEOM India 2022) Mechanical engineering department on 16-08-2022.
10. **Dr. A. Benerji Babu, Dr. R.S. Selvaraj, Dr. E. Satyanarayana** and **Dr. Y. Sreenivasa Rao** organized a FIVE Day ONLINE National Workshop (Self-finance) on Computational Number Theory and Mathematical Analysis (CNTMA-2022) 22-26th Dec 2022

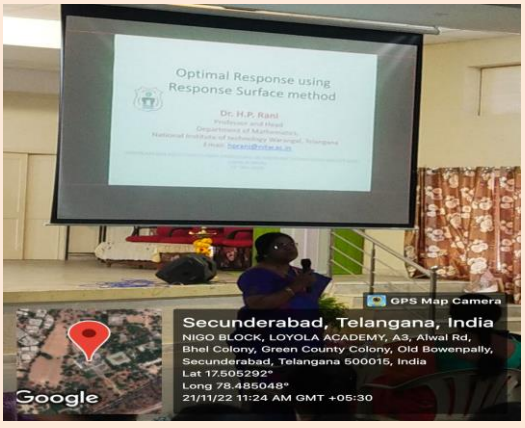








11. **Prof. H.P. Rani coordinated** the International Multi-Disciplinary Conference on "Emerging Technologies" (Hybrid Mode), 21st - 25th November 2022 In Collaboration With Loyola Academy Degree and PG College, Alwal, Secunderabad and delivered a talk on “Optimal Response using Response Surface Method”





12. Bhavana Kalidindi, Jagadish Gaddam, Deepti Kumari, Lakshmi Priya, **V. Kohila**. Computational design of a multi-epitope vaccine against Clostridium sordellii: An immunoinformatics approach. International Conference on Recent Advances in Biotechnology

(icRAB-2022), [Poster Presentation], 02-04 December 2022, Dr. B R Ambedkar National Institute of Technology Jalandhar, Punjab, India.

13. Kriti Sharma, **V. Kohila**. Immunoinformatics approach for multi-epitope vaccine design against Naegleria fowleri. International Conference on Recent Advances in Biotechnology (icRAB-2022), [Poster Presentation], 02-04 December 2022, Dr. B R Ambedkar National Institute of Technology Jalandhar, Punjab, India.
14. Prof P Ramlal, delivered a Lecture as resource person on the Topic "Course Restructuring at the Undergraduate, Post Graduate and Research levels. In Two Day National Workshop on Higher Education in the NEP – 2020. Emerging Challenges and Perspectives on Implementation organized by Department of Business Management, Satavahana University Karimnagar on 28 Nov. 2022.
15. Prof P Ramlal Chaired a Track- Human Resource & OB in Digital Era, in International Conference on Business, IT, and Enterprise Architecture (ICBIT 2022) 16th December, 2022 in online mode by Management Development Institute, Mushirabad.
16. Dr. Altaf Q. H. Badar delivered a keynote address in International Conference on Emerging Trends in Smart Grid, Renewable Energy and Electric Vehicle Technologies - 2022, held at KL University on 29th Dec 2022. The topic of the talk was Evolutionary Optimization Techniques for Optimal Demand Response.
17. Chinna Karasala, Rakesh Rao Lekkala, Siva Kumar Ganjikuna, "Variable DC-Link Voltage Control Strategy for Split-Capacitor DSTATCOM Operating in Voltage Control Mode", IEEE Second International conference on Power, Control and Computing Technologies (ICPC2T-2022), organized by NIT-Raipur and technically co-sponsored by IEEE IAS society, IEEE Bombay section, and IEEE student branch NITRR.
18. Neelesh Pratap Singh, Aniket Ramendrakumar Joshi, and Mahamad Nabab Alam, "Short-Term Forecasting in Smart Electric Grid using N-BEATS" IEEE Second International conference on Power, Control and Computing Technologies (ICPC2T- 2022), organized by NIT-Raipur and technically co-sponsored by IEEE IAS society, IEEE Bombay section, and IEEE student branch NITRR, on 1-3 March 2022. (Won the Best Paper Award).
19. D. Sivacharan Reddy, S. Porpandiselvi, Bhavin Salvi, "A GMPPT Algorithm for PV Systems Using Current Reference and P-I Curve Under Partial Shading Conditions", IEEE International conference on "Power Electronics, Smart Grid and Renewable Energy (PESGRE 2022), 2nd - 5th January 2022, Trivandrum, Kerala, India, DOI: 10.1109/PESGRE52268.2022.9715816

20. Nuruddin Mohammad, **Arif Ali Baig Moghal** and Romana Mariyam Rasheed (2022). Efficacy of EDTA Enhanced Electrokinetic Technique on Metal Spiked Soils. In the Proceedings of Indian Geotechnical Conference 2022 held at Kochi, Kerala from December 15-17, 2022.

21. Harshit Harsh, **Arif Ali Baig Moghal** and Romana Mariyam Rasheed (2022). Geotechnical Benign Characterization of Nano Amended CLS Stabilized Soil. In the Proceedings of Indian Geotechnical Conference 2022 held at Kochi, Kerala from December 15-17, 2022.

22. Mansi Gandhi, **Arif Ali Baig Moghal** and Romana Mariyam Rasheed (2022). Mathematical modeling of bioremediation of Benzene contaminated soil by Biopile method. In the Proceedings of Indian Geotechnical Conference 2022 held at Kochi, Kerala from December 15-17, 2022.

23. Gudla Amulya and **Arif Ali Baig Moghal** (2022). Effect of Granite dust and Calcium Lignosulphonate on Shrinkage Characteristic of Black Cotton Soil. In the Proceedings of Indian Geotechnical Conference 2022 held at Kochi, Kerala from December 15-17, 2022.

24. Rambabu, Sai Sampreeth Reddy Jannepally, Varsha Bonagiri, M Ashok Kumar and **Arif Ali Baig Moghal** (2022). Analysis of Case Studies on Landfill Failures – Lessons Learnt. In the Proceedings of Indian Geotechnical Conference 2022 held at Kochi, Kerala from December 15-17, 2022.

25. M Ashok Kumar, **Arif Ali Baig Moghal**, Jagadeesh Bommisetty and Nuruddin Mohammad (2022). Efficacy of Cross-linking of Biopolymers in Soil Stabilisation. In the Proceedings of Indian Geotechnical Conference 2022 held at Kochi, Kerala from December 15-17, 2022.

Invited Talks delivered

1. **Dr. Rama Raju B** Session chaired in International Conference on Recent Advances in Biotechnology (icRAB -2022) conducted by Department of Biotechnology & Department of Chemical Engineering in association with Science Technology & Innovation (STI) Hub from 2nd to 4th December 2022
2. **Dr Perugu Shyam**, Chaired the session "Parallel Technical Session Track-16 (Computational Biology and Bioinformatics) December 03, 2022" International Conference on Recent Advances in Biotechnology (icRAB-2022) December 02-04, 2022 Organized by Department of Biotechnology, Department of Chemical Engineering in association with Science Technology & Innovation Hub (STI Hub) Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab-144027, India.
3. **Dr. Onkara Perumal** chaired a session in the International Conference on Recent Advances in Biotechnology (icRAB -2022) conducted by Department of Biotechnology & Department of Chemical Engineering in association with Science Technology & Innovation (STI) Hub from 2nd to 4th December 2022
4. **Dr. Asim Bikas Das** chaired a session in the International Conference on Recent Advances in Biotechnology (icRAB -2022) conducted by Department of Biotechnology & Department of Chemical Engineering in association with Science Technology & Innovation (STI) Hub from 2nd to 4th December 2022
5. **Dr. Soumya Lipsa Rath** chaired a session in the International Conference on Recent Advances in Biotechnology (icRAB -2022) conducted by Department of Biotechnology & Department of Chemical Engineering in association with Science Technology & Innovation (STI) Hub from 2nd to 4th December 2022
6. **Dr Perugu Shyam,** delivered an expert lecture on "Statistical Inference-II using R with real-time data (hands-on)" on December 17, 2022 "Seven-Day SERB High End Workshop on "Tools for Research and Technologies for Researchers using R/Python/Matlab" from 12-18, December, 2022. Indian Institute of Information Technology Dharwad Campus, Ittigatti Road, Near Sattur Colony, Dharwad, Karnataka – 580009.
7. **Dr Perugu Shyam,** delivered an expert lecture on "Scientific Temper" TSWRS/JC(G)-COE, Madikonda on 25th November 2022.
8. **Dr Perugu Shyam,** delivered an expert lecture on "Research Methodology" scope, NIT Warangal on 25th November 2022.

9. **Dr Perugu Shyam,** delivered an expert lecture on "Protein Structure Prediction" NAARM, Hyderabad on 22nd November 2022.
10. **Dr Perugu Shyam,** delivered an expert lecture on "Role of machine learning and artificial intelligence for Gene and protein structure prediction". KL University, Hyderabad. International Conference on Cyber Security Trends (ICCST-2022) November 10-12, 2022 organized by the Department of Computer Science and engineering. Delivered on 12-11-2022
11. **Dr Perugu Shyam,** presented poster in International Conference on Drug Discovery - 2022 (ICDD-2022) organized by Schrödinger and BITS Pilani K. K. Birla Goa Campus. Potential drug candidate against ovarian cancer from phytocompounds from vitex negundo, molecular docking and dynamic studies. From 10 - 11 November 2022.
12. **Dr Perugu Shyam,** delivered an expert lecture on "Prediction of Gene and Protein structures using Machine Learning Approach", Machine Learning in Biological & Medical Sciences" between 27-28 October 2022, organized by the Dept. of Bioinformatics, Pondicherry University.
13. **Dr Perugu Shyam,** delivered a expert lecture on "Trends in DNA, Protein sequencing" in Online Refresher Course in Nanobiochemistry and Bioinformatics Organized by UGC-HRDC Osmania University from (11.10.2022 to 24.10.2022)
14. **Dr. Thyageshwar Chandran** chaired a session in the International Conference on "Education 5.0 – role of Institution, Industry and Society – 2022 (ERIIS-2022)" held from 14th-15th October, 2022 at NIT Warangal.
15. **Dr. Soumya Lipsa Rath** chaired a session in the International Conference on "Education 5.0 – role of Institution, Industry and Society – 2022 (ERIIS-2022)" held from 14th-15th October, 2022 at NIT Warangal
16. **Dr. Surajbhan Sevda** chaired a session in the International Conference on "Education 5.0 – role of Institution, Industry and Society – 2022 (ERIIS-2022)" held from 14th-15th October, 2022 at NIT Warangal
17. **Dr Ashish A Prabhu,** delivered a talk on Yeast as a potential source for lipid production In the Faculty Development Program On "Microbes' Potential to Bail out the Energy Crisis" is being organized by the Department of Biochemical Engineering, School of Chemical Technology, Harcourt Butler Technical University Kanpur, from 15th to 20th December, 2022
18. **Dr Ashish A Prabhu**, Delivered a talk on Yeast cell factories as an attractive platform for hemicellulose-based biorefineries in Five-Day Online FDP on " Advances in Biological Wastewater Treatment Methods:

19. National Mathematics Celebrations and National SCoPE Review Meeting" on 22, 23, December at Tamilnadu Science Center, Chennai

20. Expert lecture delivered at Govt. B. Ed College, Hanmakonda on "Science-Society" on 22-11-2022

21. Expert Lecture delivered at Govt High School, Thorrur, Mahabubad District on "Carrier Opportunities in Science Education and Research" on 27-11-2022

22. Expert lectures delivered at Govt Tribal Welfare High School, Maripeda on "Environmental Issues and Challenges" on 13-12-2022

23. Expert lectures delivered at Govt Tribal Welfare High School, Korivi on "Environmental Issues and Challenges" on 14-12-2022

24. **Dr. Hari Prasad Kokatla**. "Recent Advances in Chemical and Environmental Sciences" (RACES-2022) at Kakatiya Government College, Hanmakonda on 22.09.2022.

25. Science Articles written Vijnanavani Monthly Science Magazine

26. Science articles on "Chemistry of Elements" written in Vijnana Vani Magazine in October, November and December issues

27. "Cutting Edge Technologies for Physics Students" by **D. Haranath** on One Day Seminar on Emerging Research & Technologies for Career Planning of Physics Students, organized by Physics Association of NITW during 21-11-2022.
28. "Fabrication and Studies on Luminescent ZnS Nanosheet based Novel Triboelectric Nanogenerator for Sensing and Self-Powered Digital Systems" by **D Haranath** in International Seminar on Luminescent Materials, Allepey, Kerala during 09 & 10-12-2022
29. "Intellectual Property Rights for Science Faculty" (online) by **D. Haranath** in Refresher Course in Physical Sciences-2022, organized by Pt Ravishankar Shukla University, Raipur during 12-12-2022
30. "Unveiling Superoleophobic and Hydrophilic Properties of Novel Aluminum Hydroxide Nanoflakes" by **D. Haranath** in International Conference on Advances in Materials: Engineering & Technology, organized by JD College of Engineering & Management, Nagpur during 19 & 20-12-2022

31. "Step by Step Procedure for filing Intellectual Property Rights" (online) by **D. Haranath** in in Refresher Course in Physical Sciences-2022, organized by Pt Ravishankar Shukla University, Raipur during 20-12-2022
32. **Dr. Chandramohan V.P** has delivered an expert lecture on Research Methodology Scheduled conducted by Department of Mechanical Engineering Kakatiya Institute of Technology & Science, Warangal & NIT Warangal from 05-12-2022 to 09-12-2022
33. **Dr. Manjaiah M** has delivered an expert lecture on Overview of 3D printing Scheduled conducted by 1st International Conference on Sustainable Technologies and Advances in Automation, Aerospace and Robotics (STAAAR 2022) on 16-12-2022
34. **Dr. Ujendra Kumar Komal** has delivered an expert lecture on Advanced Composite Materials for Product Design Applications Scheduled conducted by Lovely Professional University, Phagwara on 09-11-2022
35. **Dr. Gaurav Kumar Sharma** has delivered an expert lecture on Digital Manufacturing: Robotic Simulation Scheduled conducted by Indian Institute of Science, Bangalore on 16-10-2022
36. 10 Days GiAN Course on Magnetohydrodynamics in the Light of Astrophysical Dynamos' Analytic, Asymptotic and Numeric Applications 19-29 September 2022, International Faculty Prof. Sergey V. Starchenko Head of Main Geomagnetic Field laboratory of IZMIRAN, Russia. Course Coordinator - **Prof. H.P. Rani.**



37. **Dr. Rajmohan KS** was a resource person for One-Week Online Short-Term Course (Faculty Development Program) on "Advances in Nanomaterial Fabrication, Characterization and Applications" organized by UGC-Human Resource Development Centre, JNTU Hyderabad Kukatpally, Hyderabad from 31-10-2022 to 05-11-2022 and delivered two lectures on 1. Recent Trends in Sustainable Nanofiber Production Techniques for Medical Biotextiles and 2.

Functional nanomaterials for Energy Generation & Energy Storage Devices on 04-11-2022 (Friday).

38. **Dr. Rajmohan KS** was a resource person for "AICTE Training and Learning (ATAL) Academy sponsored Faculty Development Program on "Waste to Wealth: Emerging Trends in Green Energy for Sustainable Development" " from 05/12/2022 to 16/12/2022 at Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai and delivered a lecture on "Algal biofuels - current prospects and future perspectives & Microalgae as a source for energy and nutraceuticals" on 09th December 2022(Friday).
39. **Dr. Altaf Q. H. Badar** delivered a keynote address in "International Conference On Emerging Trends In Smart Grid, Renewable Energy And Electric Vehicle Technologies – 2022", held at KL University on 29th Dec 2022. The topic of the talk was "Evolutionary Optimization Techniques for Optimal Demand Response".

NITW

Guest Lectures by Foreign Experts

1. **Dr. Suresh Gadde,** Assistant Professor, Department of Cellular and Molecular Medicine, University of Ottawa, Canada delivered a Lecture cum Interactive Session by "Nanotechnology Based Therapeutic Approaches in Healthcare Applications" in Chandrasekhar Hall, Seminar Hall Complex on 11-07-2022
2. **Dr. Prashanth K. Poddutoori**, Assistant Professor, University of Minnesota Duluth, Minnesota, U.S.A., delivered Lecture cum Interactive Session on "Main Group Porphyrin Chemistry" in Ramanujan Hall, Seminar Hall complex on 10-08-2022 and described the opportunities at University of Minnesota Duluth, Minnesota
3. Online expert lecture on MHD dynamo in planets by Foreign Expert: Prof. Sergey V. Starchenko Chief Scientist & Head of "Main magnetic field of the Earth" lab Pushkov Institute of Terrestrial Magnetism, Ionosphere and Radio Wave Propagation, Russian Academy of Sciences (IZMIRAN), Russia on 27th September 2022.
4. Offline expert lecture by world renowned expert on mechanics and numerical simulation, Prof J.N. Reddy, Department of Mechanical Engineering, Texas A&M University, USA. The title of talk - Dual Mesh Control Domain Method for the Solution of Differential Equations in Engineering and Applied Sciences. December 19, 2022.



5. Guest lecture on "Future trends in power flow controllers – opportunities and Challenges" by Kalan K. Sen (20-10-2022)

EEA along with IEEE Power and energy society (IEEE-PES) Student Branch NITW along with IEEE PES/IAS-jt Chapter, Hyderabad Section organised a seminar by Dr. Kalan K. Sen, who's working as CTO for Sen Engineering Solutions. Dr. Sen is an IEEE PES distinguished lecturer president and a Fulbright scholar (U.S)





The seminar is hosted in Bose Hall with over 110 students attending the lecture and interacting with the speaker over several topics and questions regarding the lecture. The event concluded with felicitation to the speaker.

Awards, Outreach, Achievements & Distinctions

1. **Prof.Laxama Reddy** has been received the best Science Researcher Award-2018 from NIT Warangal on 9-10-2022

2. **Prof. Ramachadraiah** has been received best Teacher award from NITW on 9-10-2022



3.**Shirish H. Sonawane**, Design and fabrication of polymer electrolyte membrane (PEM) fuel cell stack and its components, E-101/CHE/22190/2017. **[Patent].**

4.**Shirish H. Sonawane**, Excellent innovation idea to tackle the plastic issue with polyurethane in the Green Polyol IDEAthon, Workshop on Circular Systems Innovation for Plastic Waste, organized by AIT Thailand and University of Cambride **[Prize].**


AIT Asian Institute of Technology

IfM Centre for Industrial Sustainability

UNIVERSITY OF CAMBRIDGE Department of Engineering

CERTIFICATE OF AWARD

Workshop on Circular Systems Innovation for Plastic Waste

Winner

This certificate is presented to

Shirish Sonawane

for the excellent innovation idea to tackle the plastic issue with polyurethane in the **Green Polyol IDEAthon** on 2nd November 2022 at the Novotel Bangkok on Siam Square Hotel, Bangkok, Thailand

T Bora

Dr. Tanujjal Bora Director
Center of Excellence in Nanotechnology
Asian Institute of Technology, Thailand

Dr. Curie Park Lead Researcher
Centre for Industrial Sustainability, Institute for Manufacturing
Department of Engineering, University of Cambridge, UK

10. Optica publishing group(USA) had selected the work of **Dr. Vijay Kumar** on "Speckle based-recognition of OAM modes" for "Optics in 2022" published in december 2022 issue of Optics and Photonics News which highlights the best works done in Optics in the year 2022. [Link]
11. Optica publishing group(USA) had published in december 2022 issue of Optics and Photonics News, **Dr. Vijay Kumar's** look ahead: Optics in 2023 & Beyond, on his interesting research area **"AI Optics"** that might advance in 2023. [Link].
12. Hydrothermally Grown NiO Doped ZnO Nanorods Immersed in Nitrogen doped Carbon Quantum Dots (NCQDs) N-CQDs/Ni-ZNRs Hybrid Thin Films for UV Photodetector Applications by **Prof. K.Thangaraju** received Best paper award in International conference on Education 5.0 Role of Institution, Industry and Society (ERIIS-2022) .
13. **Prof. Debashis Dutta** was awarded "The Distinguished Professor Award" by *Novel Research* Academy, Puducherry, India, on September 10, 2022
14. **Prof. Debashis Dutta** conducted a faculty selection interview for the Dept. of Basic Science and Humanities (Mathematics), IIIT-Bhagalpur on Dec 28,2022.
15. **Prof Debashis Dutta** reviewed a paper (ID: ANOR-D-22-01332) in the journal Annals of Operations Research (Springer) on Sept 1, 2022
16. **Prof Debashis Dutta** reviewed a paper (ID 9628) at the 5th International Conference on Intelligent Computing & Optimization 2022, held online during October 27 – 28, 2022, which was organized by Optimization Conference Resources, Kedah, Malaysia.
17. **Prof. Debashis Dutta** conducted a Ph.D. VIVA-VOCE Examination (ONLINE) of Mr. Admasu, KIIT-Bhubaneswar, ON Sept 22, 2022, as an external examiner.
18. **Prof. Debashis Dutta** chaired a session at the Congress on Smart Computing Technologies (CSCT2022) (Held Online) Organized by SAU Center for Research and Innovative Learning, South Asian University, New Delhi, and Soft Computing Research Society on Dec 12, 2022
19. **Prof. Debashis Dutta** chaired a session at the 2nd International Conference on Intelligent Vision and Computing (ICIVC2022) (Held Online) Organized by NIT-Agartala and Soft Computing Research Society on Nov 27, 2022
20. **Dr J Pranitha,** as a Member of Internal Complaints Committee conducted an Awareness program on Sexual Harassment of Women at Workplace on the occasion of International Day for elimination of violence against women on 25th November 2022.
21. **Dr. R. S. Selvaraj** was part of the selection panel for HPSC, during Sept 2022.
22. **Prof. H.P. Rani** acted as Judge for SCUDEM VII 2022— SIMIODE (Systemic Initiative for Modeling Investigations & Opportunities with Differential Equations) Challenge Using

Differential Equations Modeling is a 3-student group modeling challenge around the globe that runs over multiple days culminating in a 10minute video which is reviewed by at least 3 judges.

23. **Prof. H.P. Rani** was part of Induction Program-2022, Universal Human Values sessions (OFFLINE) for around 1100+ students of first year B.Tech. and Integrated M.Sc. Students, during 21-26 Nov 2022
24. **Prof P Ramlal,** is Appointed as External Subject expert to the PG BOS in Commerce and Management, Krishna University, Machilipatnam for two years.
25. Dr. **Arif Ali Baig Moghal** received "**Springer Best Paper Award**" for the paper titled "Geotechnical Benign Characterization of Nano Amended CLS Stabilized Soil" for Theme – Soil Stabilization, awarded during the Indian Geotechnical Conference 2022, held at Kochi from 15th to 17th Dec 2022.
26. **Dr. Arif Ali Baig Moghal** received "**Springer Best Paper Award**" for the paper titled "Analysis of Case Studies on Landfill Failures – Lessons Learnt" for Theme – Geo-environmental Engineering, awarded during the Indian Geotechnical Conference 2021, held at NIT Trichy from 15th to 17th Dec 2022.
27. **Dr. Arif Ali Baig Moghal** was the recipient of "**Reviewer of the Year 2021**" for the Indian Geotechnical Journal.
28. **Dr. Arif Ali Baig Moghal** was listed among the **top 2% cited scientists** compiled by Stanford University for September 2022.

Superannuation

Prof. N. Subrahmanyam (Professor in Electrical Engineering) retired from service on 31st December 2022 on superannuation. Prof. N. Subrahmanyam joined RECW in 1981 as a Teaching Assistant after completing his graduation and two post-graduations from RECW itself and over a period of 41 years of service he rose to the position of Professor.

During his long and distinguished service at RECW/NITW, Prof. N. Subrahmanyam executed several administrative positions in addition to his teaching responsibilities. To name a few, he served as Head of the Department, Warden of student hostels, Staff Advisor of Technical Association, Member – organizing Committee of several Alumni meets, Faculty In-charge Alumni affairs, Dean –International Relations and Alumni Affairs.

The department of Electrical Engineering organized a lecture series in association with Hitachi Energy India Ltd., starting from 15 December 2022. Starting from 15 Dec 2022 by Mr Nihar Raj, Vice President (O&M), Adani Transmission, 19 Dec 2022 by Sri Akilur Rahman, CTO - India,

Hitachi Energy, 21 Dec 2022 by Alexandre Oudalov, Manager - Power Systems of the Future, Hitachi Energy, Switzerland.

On the concluding day on 30th December 2022, the Department of Electrical Engineering has organized a one-day online seminar at NITW to mark the superannuation of Prof. N. Subrahmanyam. Mr. N Venu, MD & CEO – India & South Asia, Hitachi Energy, a 1988 alumnus of Electrical Engineering, NITW attended as the guest of Honor and delivered the Keynote address on 'Sustainable Energy Future needs Smart Electric Grid'. Following this was a lecture by Mr RamKumar, Manager, Real Time System Operation, SRLDC, Grid India and Lecture by Mr Srinivasa Reddy, NITWAAH- TEC Chair and vice president.



The program was well attended by his students and well-wishers physically and virtually. A Felicitation function was organized in the AN of 30th December 2022 in which several of his students, classmates and well-wishers expressed the unique qualities of Prof. N. Subrahmanyam and all his contributions to the department in terms of development of new laboratories, infrastructure development in the labs and the institution were appreciated.

29. Faraday Memorial Lecture followed by Inaugural Ceremony (22-09-2022)

The Faraday Memorial Lecture was delivered by Murali Mohan Gade Sir, who has done his Btech from Electrical Department from NIT Warangal and Mtech from IIT Bombay who is currently working as a scientist of grade "F" in directorate of systems in DRDL, DRDO at Dr. APJ Abdul Kalam Missile Complex, Hyderabad.

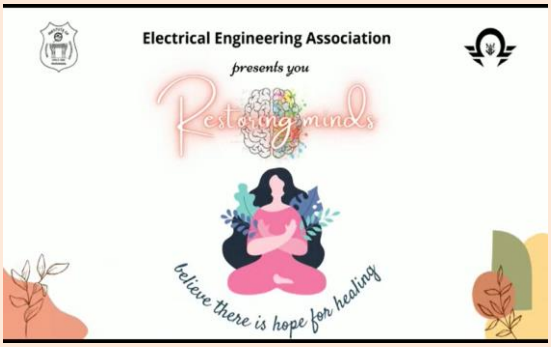




The EEA Inaugural was graced with the presence of Prof. N.V. Ramana Rao sir, director NIT Warangal and Prof. Ravi Kumar Puli sir, Dean Student welfare, NIT Warangal along with Prof. M. Sailaja Kumari Madam, HOD Electrical Department. The event was hosted at BOSE hall with over 150 students and faculty of the department.

30. Restoring Minds (10-10-2022)

Restoring Minds is an Initiative by EEA for helping out people who are in need of little help for their mental health well-being. This event is online where students who are suffering or facing issues with mental health perspective like depression, anxiety etc can contact us and we will guide them or escalate the issue or help in any way possible to aid them out of the situation.



This initiative is kept open throughout the year and students can opt in to fill the form for help the need.

31. Know our faculty. (18-10-2022)

EEA organised a session named “KNOW OUR FACULT” with Prof. N. Subrahmanyam sir of Electrical Department to provide students with a chance to interact with the professors they learned subjects from and professors of their parent department about their life experiences, hardships they faced, the advancements in methodologies and technologies they witnessed and their career. The event started with introduction of professor with brief video to explain the audience about the details the probably students aren’t aware of followed by one to one discussions with sir and we concluded by felicitating the professor.





Over 120 students actively participated in this programme and got many insights from the professor.

Students Achievements & Research Appreciations

1. **Nabanita Mandal**, PhD scholar from the Department of Biotechnology presented a poster titled "Identifying a PAN inhibitor for SARS-CoV-2 RBD/ACE2 complex" at BESCON 2022, held at Bose Institute, Kolkata from 04.11.2022 to 06. 11.2022. **[Conference Poster]**
2. **Srividya.A,** PhD scholar from the Department of Biotechnology presented an oral presentation on "Elicitation-An Effective Strategy for Enhanced Secondary Metabolite Production'' at Global Biotech-2022 Hyderabad, collaborate with Bioangels (BIRAC) from September 16-17,2022 [**Conference Proceedings**]
3. **Chandukishore T, Satwika Das** and Ashish A Prabhu. Effective valorization of starchy food waste using fungal cell factory: A Biorefinery approach for green synthesis of chemicals (poster presentation). BESCON 2022. Organized by - IIT Kharagpur and Bose Institute, Kolkata on behalf of Biological Engineering Society, India (BESI), 4th-6th November 2022.
4. **Chandukishore T, Satwika Das** and Ashish A Prabhu. Ecofriendly And Sustainable Production of Value Added Bioproducts Using Food Waste through Fungal Cell Factory (poster presentation). ICRABES VIT, International conference organised by Vellore Institute of Technology, Vellore conducted from December 16 th to 18 th 2022.
5. **Satwika Das**, Chandukishore T and Ashish A Prabhu. Enhanced hydrolysis of starch-based food waste from newly isolated filamentous fungi: A sustainable approach towards bioeconomy (oral presentation). BESCON 2022. Organized by - IIT Kharagpur and Bose Institute, Kolkata on behalf of Biological Engineering Society, India (BESI), 4th-6th November 2022 **[Conference Proceedings]**
6. **Miss. Gorle Kavyanjali** has recieved a merit scholarship from the institute for securing the highest grade in the 1st year (Int M.Sc. in chemistry)



7. **Mr Siju Mishra**, a PhD Scholar working under the guidance of Prof D. Haranath and Dr R Rakesh Kumar has published a research paper in a very High Impact Factor journal called "Nano Energy", having a 2021 impact factor of 19.069.
8. **Shreya M.** (3rd year B.Tech. (Civil)) has received merit internship from IIT Bombay, from November 2022 to January 2023.

Event : Teaching to Tribal Students
Year long Event

NSS_NITW has taken the initiative to visit the Tribal School to help them in improving their studies and extra-curricular activities every weekends. Under this program, NSS_NITW student volunteers not only help in studies but also to imbibe values and morals in the students.

As a part of the tribal school visit, NSS_NITW student volunteers interacted with each and every student to clear their ambiguities in academics. Moreover, weekly progress is going on and plan of action is being strategized accordingly to bring solutions to their problems in the future visits.





Event: Fit-India Freedom Run 3.0 and Unity Run
Date: 30-10-2022

It was aptly said by the Iron man of India Shri Vallabh Bhai Patel “Manpower without Unity is not a strength unless it is harmonized and united properly, then it becomes a spiritual power.” On this note, promoting Unity and fitness, National Service Scheme and Fitness Club units of National Institute of Technology Warangal, organized Fit-India Freedom Run 3.0 and Unity Run on 30-10-2022.

The event started with a pledge taking ceremony. The students took the pledge to preserve the unity and integrity of the nation and spread this message among the country men.

In the unity run many students enthusiastically participated in a short run around the premise of the college (from NITW Main Gate to the collectorate office). There was an active participation of the students and the staff members in the event. Dean Student Welfare, Prof. Ravi Kumar Puli, Guest of honour for the event flagged off the run. The run ended with the advice to the students

about the unity and integrity of the nation by Ravi Kumar Sir and Circle Inspector of Police (Kazipet), Mahender Reddy sir. This programme will be a great help to unite the country together and make it a superpower.






ఈనాడు
epaper.eenadu.net

నిట్ విద్యార్థుల స్వచ్ఛా ర్యాలీ

Date : 31/10/2022 EditionName : TELANGANA
(HANUMAKONDA) PageNo : 02


ఫిట్ ఇండియా ఫ్రీడమ్ రన్ త్రీ

పాల్గొన్న విద్యార్థులు ప్రొఫెసర్లు



Event: Lantern Night
Date: 24 October, 2022

On the occasion of Diwali, #NSS_NITW organized LANTERN NIGHT on October 24, 2022, with a motive to float away all the worries and fly high with the burning zeal and enthusiasm.

Event promoted the lights of diyas to win over darkness and encouraged the college peeps to celebrate Diwali in a fun and frolic way

The event was set ready at Time Square with all the artificial lights turned off. Students, with a common wish on a great night to spread the spirit of service, burn the evil inside, and spread the happiness of helping, lighted the lanterns at 07:15 pm with Guest of Honour Prof. Ravi Kumar Puli, illuminated the area with the natural lights and celebrated Diwali with their friends as their family.

The event went on until late at night with people chit-chatting and taking photos.

Every student dispersed with a huge smile, and glowing faces in the twinkling lights, which made us smile and glow too.







Event: Happy Hearts
Date: 12-10-2022

A fun-filled event was organized by NSS NITW on the occasion of World Mental Health Day on 12-10-2022. The program 'Happy Hearts' was held in NAB. The event was organized to spread and raise mental health awareness: to not hide behind shame and stigma.

The students expressed their emotions about mental health by painting coloured hearts on the charts where each colour represents mental disorders. Team NSS thank everyone for their participation in the event.







Event : Global Times
Date : Year long event

Global Times is a newsletter that makes work easy by presenting you, monthly glance, which consists of all the current affairs happening in the month! From politics to sports. From Bitcoin to sensex. From Maths to Space!.







Event: Children's Day Celebrations
Date: November 13,2022

A cheerful event was organized by NSS NITW in collaboration with Food and Health club made a memorable day for the students of Vyasa A was on 13th November.

The event was graced by Dean student welfare Prof. Puli Ravi Kumar Sir. The programme had a series of interesting and exciting events, all planned meticulously for complete entertainment. The students were overwhelmed and enjoyed the day. In a way, these little kids made the day very special for everyone there. The happiness in the kids made our day memorable.









Event: Aksharamala
Date: Year long event

We are very excited to announce that NSS NITW in collaboration with SCERT, Govt of Telangana and IIT Hyderabad is involving in the event "AKSHARAMAALA".

Volunteers give coaching in Mathematics/Physical sciences or both as a supplement to school coaching to bring better understanding of tough topics and to improve academics of the government school students of Telangana.

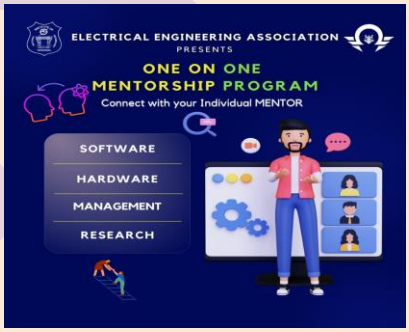
Program is between 5th November 2022 and 5th March 2023, where volunteers take classes twice a week.



9. Mr. G. Sagar Petkar (Roll No. 718120) - "Effective Direct Torque Control and Model Predictive Current Control Schemes of the Permanent Magnet Synchronous Motor Drive," December 2022 under supervision of Dr T Vinay Kumar.
10. Mr. S. Sreekantha Reddy (Roll No. 718117)- “Modelling and Reconfiguration of PV modules to enhance the output power under partial shading condition” December 2022 under the supervision of Dr. Y. Chandrasekhar.

    One to One Mentorship Program (30-10-2022)

11. The one to one mentorship programme by EEA offers second year students of Electrical Engineering Department to have a personal mentor who is already placed in a university or corporate or who grabbed a good rank in the examination/career they wish to pursue to clear their minds from any doubts and other queries and to provide them with resources and guidance they need.



Over 35 students opted for this programme and are being monitored and guided in a cooperative manner.

12. Placement and Internship Experience Series (06-11-2022)

The placement and Internship experience series in collaboration with XPIRIA (a website started last year by students) aims to take details from students who grabbed offers from top companies and industries and organise the data with details others would want to know in the next placement season. At an average, one student experience per week is posted and updated to help students with their planning.



13. Industry Visit (Btech 4th ear) (14-11-2022)

EEA has coordinated with the industry visit for Btech Final ear students where 74 students of Btech Final ear accompanied b 2 faculty have visited CPRI Hyderabad, Ghatkesar Substation for gaining practical experience.



14. Industry visit (Mtech Students) (19-11-2022)

EEA has coordinated with the industry visit for Mtech students where 69 students of Mtech accompanied by three faculty have visited Oglapur Powergrid Substation 400/220KV, TSPNPDCL Mulugu Substation for gaining practical experience.



15. Ode of Gratitude (25-11-2022)

The “Ode of Gratitude” is the initiative started this year by EEA for expressing our gratitude and saying thank you to our HoD ma’am Prof. M. Sailaja Kumari, as ma’am ends her tenure as Head of the department and also welcome our new HOD Prof. Narasimha Raju Sir. The event was organized on behalf of the entire department for all the support and efforts that was put into these years for the well being of the department.

Over 100 students and faculty of the department attended the event and interacted with ma’am. The event was held on 25/11/2022 at Chandrasekhar hall and ended with our small token and felicitation to our ma’am.

16. Freshers’ ROADMAP (14-12-2022)

The freshers roadmap is an event where second year students in the association explain how things in college will be there and break the stigma and fears the have by guiding them and giving them tips from their experience in the college. The academic, co-curricular and extra-curricular activities are discussed in this interactive session hosted at Chandrasekhar Hall in which over 70 students from Btech First ear who newly took admission into college have participated and interacted with seniors.

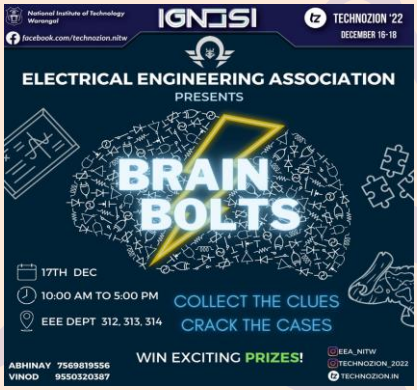




The Electrical Engineering association also had 5 events under Technozion fest during 16-18 December.

- Quiz Mania (TZ) (16-12-2022)
- Degree in a Day (TZ) (16-12-2022)
- Simulink Master (TZ) (17-12-2022)





Brain Bolts (TZ) (17-12-2022)



Dare to Feel the Chair (TZ) (18-12-2022)

New Equipments Installed

1. BET Surface area analyzer procured under Plan Grant (Chemistry)



2. Gas Chromatograph (GC) (Chemical Engineering)



PUBLIC RELATIONS and MEDIA COVERAGE



నో యువర్ బ్లడ్ గ్రూప్

నిట్ బయో టెక్నాలజీ విద్యార్థులు బ్లడ్ గ్రూప్ టెస్ట్‌పై అవగాహన కల్పించారు. ఇది అత్యంత సులువైన పరీక్ష అని వివరించారు. రక్త పరీక్ష (బ్లడ్‌గ్రూప్) కోసం ల్యాబ్‌కు వెళ్లకుండా ఇంటి వద్దే సులువుగా పరీక్షించుకోవడాన్ని విద్యార్థులు వివరించారు.



బయోటెక్ న్యూ ఇన్నోవేషన్

ప్రపంచ వ్యాప్తంగా బయో టెక్నాలజీలో వస్తున్న నూతన ఆవిష్కరణలపై బయో టెక్నాలజీ విద్యార్థులు సదస్సు నిర్వహించారు. ఈ సదస్సులో విద్యార్థులు ప్రపంచవ్యాప్తంగా బయో టెక్నాలజీ రంగంలో వస్తున్న నూతన ఒరవడులను వివరించారు.











ABN ఆంధ్రజ్యోతి

ఆంధ్రజ్యోతి | హనుమకొండ | HANUMAKONDA | 5

'సాంకేతిక' సొరభం

ఏటీలో ఘనంగా మొదలైన టెక్నోజియాన్ వేడుకలు



సాక్షి

సాక్షి హనుమకొండ

ఆరంభం అదుర్స్

నిట్‌లో టెక్నోజియాన్-22 ప్రారంభం

సాంకేతికం.. సంబ్రమార్ణవం!

అదిరేటి స్టెప్పు మేమేస్తే..



అద్భుతం.. ఆసక్తికరం

- నిట్‌లో ఏమాత్రం తగ్గని ఆదుర్దా
- అదరహో అనిపించిన విద్యార్థుల ఆలోచనలు

వరంగల్ నేషనల్ ఇన్‌స్టిట్యూట్ ఆఫ్ టెక్నాలజీ (నిట్)లో ఘనారంభం టెక్నోజియాన్-22 రెండో రోజూ విద్యార్థుల అద్భుత ఆవిష్కరణలతో అబ్బురపరిచింది. నిట్‌లో ఇవాళ గుసగుసల నగరంలోని పలు సూక్ష్మ విద్యార్థులు తరలివచ్చి తిలకించి టెక్నోజియాన్ గురించి తెలుసుకున్నారు. పలు పాఠశాలల విద్యార్థుల తాము కూడా ఈవెంట్లను అమలుచేసి, బహా అనిపించారు. నిట్‌లోని వివిధ డిపార్ట్‌మెంట్లు ఈవెంట్ల అమలుచేయడంతో సందడిగా మారాయి.

– కాజీపేట రూరల్

జాస్ట్రో వరల్డ్ అదుర్స్

జాస్ట్రో వరల్డ్ ఈవెంట్‌లో పిల్లలకు స్వాగతం చెబుతున్న విద్యార్థి

మెటా కనెక్ట్ ఈవెంట్

మెటా కనెక్ట్ ఈవెంట్‌లో మిలలాకకలే ఆసక్తిగా అడుగుతున్న విద్యార్థులు

ఆస్ట్రో వరల్డ్ ఈవెంట్‌లో ఏర్పాటుచేసిన వివిధ ఆటలు, ఉపగ్రహాలు, నక్షత్రాలు చక్కగా కనిపిస్తాయి. వీటితో పాటు ఏర్పాటుచేసిన ఫొటోబూత్‌లో విద్యార్థులు ఫొటోలు దిగారు. ఇక మెటా కనెక్ట్ ఈవెంట్‌లో ఏర్పాటుచేసిన టేబుల్ టెన్నిస్ ఆకట్టుకుంది. ఇందులో విద్యార్థులు ఆసక్తిగా పాల్గొన్నారు.

జపాజే సూపర్

జపాజే ఈవెంట్

నిట్ టెక్నోజియాన్‌లో (ఐ) మంచి విద్యార్థులు ఫుట్‌బాల్ సాండ్ ఫైట్ జపాజే (చీటీ పడడం) ఈవెంట్‌ను ఆసక్తిగా నిర్వహించారు. బాబర్ పాండిలో సీరు సుల్తానీ ఫైటింగ్, జుయాకలు, ట్రూకింగ్‌తో జపాజే రాంచలు విద్యార్థులు చేశారు. లోతుగా కుంభాలు గ్ లోతే రేంజ్ చేస్తారు. ఈ గేమింగ్‌లో నిట్ మరియు లో నుంచి అరి తక్కువ సమయంలో పడడంతో గమ్యం చేరుకునే వారు విజేతగా నిలుస్తారు. ఈగేమింగ్‌లో మొత్తంగా ఎంపిక చేసి వారికి నగదు బహుమతులు అందజేయనున్నారు. విద్యార్థులకు శివంత, సంతోష్, మస్తాన్, రాహుల్‌లో ఆరిని ఈసీ, డిపార్ట్‌మెంట్ బీ (ఐ) మంది ఫ్యాకల్ వద్దుర్తు విద్యార్థులకు ఈవెంట్‌ను తీసింది.

హనిజ్ నెట్‌వర్కింగ్ ఈవెంట్

హనిజ్ ఈవెంట్‌లో పాల్గొన్న విద్యార్థులు

బ్లడ్ గ్రూపింగ్ ఈవెంట్

బ్లడ్ గ్రూపింగ్ చేస్తున్న విద్యార్థులు

సైకిల్‌లా తొక్కుతూ.. బైక్‌లా రైడ్

ఈ-బైక్ బ్లిక్ అవిష్కర్తలు.. 2014 బ్యాచ్ విద్యార్థులు

నిట్ 2014 బ్యాచ్ విద్యార్థులు ఈ-బైక్ ఎలక్ట్రిక్ బైక్‌ను రూపొందించింది. నిట్ వరంగల్ ఇంజినీర్స్ లర్నింగ్ సెంటర్ ఆదిలోపించింది. తొలిరోజు టెక్నోజియాన్-22 కార్యక్రమాల్లో భాగంగా ఇవాళ్టి విద్యార్థులు. ఈ ఈ-బైక్ ఎలక్ట్రిక్ బైక్‌ను ప్రైవేట్ మాదిరిగా ఇవాళ్టి విద్యార్థులు. ఈ ఎలక్ట్రిక్ బైక్‌ను ప్రైవేట్ లేదా తొలిరోజు ఉంచే బ్యాటరీ ఛార్జింగ్ అవుతుంది. దీంతో కాసేపు తొక్కిన తర్వాత బైక్‌లా రైడింగ్ చేయొచ్చని చెబుతున్నారు. ఈ బైక్ బ్లిక్ అవిష్కర్తలు. ఎకో ఫ్రెండ్లీగా ఈ- బైక్ బ్లిక్ నిలుస్తుందని, ప్రస్తుతం హైదరాబాద్‌లో ఈబిక్ బ్లిక్ అందుబాటులో తెచ్చినట్లు. ఈబిక్ బ్లిక్‌ను తర్వాత నిట్ వరంగల్‌లో బహిరంగంగా ప్రదర్శించనున్నట్లు తెలిపారు.



నమస్తే తెలంగాణ | 5

ఉత్సాహంగా సాంకేతికోత్సవం

- నిట్‌లో ప్రారంభమైన టెక్నోజియాన్
- క్యాంపస్‌లో సందడి చేసిన విద్యార్థులు
- 35 ఈవెంట్లను ప్రదర్శించిన విద్యార్థులు
- ఆకట్టుకున్న సాంకేతిక ప్రదర్శనలు



ప్రతిభకు పదును.. ఆవిష్కరణలకు అదును

నిట్‌లో ముగిసిన సాంకేతిక వేడుకలు

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సాంకేతిక తోటలో ఆవిష్కరణల పండగ

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