

THE BEACON RAY

A quarterly newsletter from NIT Warangal

FOREWORD



Prof. N V Ramana Rao

Dear friends,

Hope all of you and your family members are doing well and are staying safe. The academic year-2021-22 has started on a smooth note. The admissions for all the PG and PhD programs were successfully completed and the admissions for the UG programs will start soon. It is heartening to note that most of the PG programs at NIT Warangal are well sought after by the student community across the country. This is indicated by the large percentage of seats filled in these programs. However, the admissions into a few PG programs are not up to the expectations. Concerted efforts are being made to strengthen these programs so as to make them also attractive to the students.

Periodic curriculum revision is a regular practice in the institute. The Institute has recently completed a major exercise in revising the curriculum of the all the programs being offered, by incorporating some of the recommendations of NEP-2020. Some of the noteworthy changes in this revised curriculum include "Branch specific curriculum from the first year of the B. Tech. program", "Introduction of Minors and Honors in the B. Tech program and as a consequence scrapping of Branch change at the end of the First year", " Provision for one semester Industry Internship in the Final year of the B. Tech Program" and "provision of exit option for the PG and PhD students". I congratulate all the faculty, HoDs, BOS members, Senators and the Dean (Academic) for their untiring efforts spread over the last few months in drafting this revised curriculum, which

is coming into force from this academic year 2021-22 onwards.

The Institute has been ranked in the top 25 engineering colleges of the country in the recently announced NIRF-2021 rankings. Even though there is a slight fall in the ranking of the Institute despite of the best performance of the faculty and the staff, it is happy to note that the Institute has fared well on many fronts in the ranking parameters. Efforts are being made to develop a strategy for the all-round growth of the Institute and improve the rankings.

The 19th Convocation of the Institute was held on 9th October, 2021. The Institute Gold Medal was awarded to Mr. S. Ganesh, B. Tech (Mechanical Engineering). My special congratulations to him. On this occasion, the NITW-SIEMENS COE and the NITW-HITACHI Smart Power Grid Laboratory were inaugurated in virtual mode by the Hon'ble Minister for Education, GOI, Shri Dharmendra Pradhan Ji. Similarly, foundation stones were also laid by the Hon'ble Minister, for the new academic building blocks of the Civil Engineering Department and the Mechanical Engineering Department and, the Multi-purpose sports complex named after the Indian Hockey legend, Major Dhyanchand.

It is heartening to note that many of our faculty colleagues were awarded prestigious projects from National and International funding agencies. Dr. P. Abdul Azeem and team from the Department of Physics, and, Dr. Shireesh H. Sonawane and team from the Department of

Chemical Engineering were awarded one patent each for their inventions. Similarly, a few more patents have been filed in the recent past. My special congratulations to all these faculty colleagues for their praiseworthy achievements.

The Institute administration is giving lot of importance in strengthening the Human Resources of the Institute. Recently, One Principal Scientific Officer and five Technical Officers have been recruited. I am confident that with the induction of these technical personnel, the R&D infrastructure in the Institute will get a major fillip. Similarly, one Senior Student Activity and Sports Officer and one Student Activity and Sports Officer have also been recruited recently. I am hopeful that with the presence of these SAS personnel, the extracurricular activities in the Institute will get a boost.

The Institute is being opened for the physical classes in a phased manner. All the PhD and PG (except the first year) students are summoned to the campus from November 1st, 2021. The other batches of the students will be permitted to the campus in due course of time. I request all the campus residents to take utmost care in strictly following the standard protocols with respect to the COVID-19 and caution them not to give any scope for complacency.

I congratulate the Editorial Board of the Newsletter for compiling all the details and bringing out this edition. Finally, it is important to note the fact that Academics blended with R&D is the sure path to success for any Institute of Higher learning and our Institute is no exception to this. Let us all resolve to work hard and take the Institute to greater heights.

Prof. N V Ramana Rao

Director, NIT Warangal

19th Convocation Ceremony

The Honorable Union Education Minister **Shri Dharmendra Pradhan Ji** attended the Convocation as the Chief Guest and addressed the students at the 19th Convocation Ceremony of NIT Warangal on 9th October 2021. He inaugurated the NITW-SIEMENS Centre of excellence (CoE), NITW- HITACHY Smart grid Laboratory, laid the foundation stones for Dyanchand Multi-Purpose Sports Complex, new building blocks of the Department of Civil Engineering and Department of Mechanical Engineering of NIT Warangal. **Shri Dr. K. Kasturirangan**, Former Chairman of Indian Space Research Organization (ISRO), and Chairman of New Education Policy (NEP-2020), was the Guest of Honor on the occasion. The Convocation was held through Motion Cap augmented Reality - Virtual Technology with the technical support of M/s. A-Theorem.

Shri Dharmendra Pradhan, Honorable Union Education Minister, Chief Guest of the convocation addressing the 19th NITW convocation 2021 through online mode congratulated the students who received graduation degrees.

The guest of honour of the program **Dr. K. Kasturirangan**, congratulated the Faculty and Staff of NITW for working tirelessly to transform it from REC into an Institute of National Importance. He said that today NITW has turned into a truly multi-disciplinary institution. Speaking of NEP he said that this new policy provides an integrated and flexible approach to education.

Prof. N. V. Ramana Rao, Director NIT Warangal said that at present NIT Warangal offers eight programs at UG level, twenty eight M.Tech programs, five M.Sc., one MCA and one MBA program - totaling thirty five programs at master's level, which is one of the highest among the NITs.

A record number of 1740 students were awarded their degrees in this convocation. Out of this 105 are Ph.D. Degree awardees, 537 are M. Tech. and 215 are other Post-Graduate Degree awardees and 883 are B. Tech. Degree awardees. In each branch of Engineering, topper of the B. Tech. class is awarded Roll of Honour Gold Medal and the topper of all branches put together is awarded the Institute Gold Medal. Mr. Ganesh. S, of Mechanical Engineering received the Institute Gold Medal.



Prof. N V Ramana Rao



Shri Dharmendra Pradhan Ji



Dr. K. Kasturirangan



Mr. S Ganesh, from MED received Gold Medal

Distinguished Alumnus Awards 2018, 2019 & 2020

Alumni Awards

NIT Warangal introduced the Distinguished Alumnus Awards to honour outstanding former students and to celebrate their achievements. From this year Institution has also introduced Distinguished Alumnus Lifetime Achievement Award. The purpose of the Distinguished Alumnus Award is to recognize the institute's alumni, who have made significant contributions to the society, to his/her profession and to the Institute. The Distinguished Alumnus Award will be an exceptional honour to its recipients. These awards will be given for outstanding achievement, Lifetime contributions and there will be no compromise in diminishing the significance of the awards. The Distinguished Alumnus Award were presented on Institute Foundation and Alumni Day i.e. on 10th October 2021. Each award includes a citation and a Memento.

NITW Distinguished Alumnus Awards 2018, 2019 & 2020

- The Notification was released on 22nd September, 2020
- The closing date of receiving Nomination was 30th November, 2020
- A total of 49 applications were received.
- As per the Director's approval Scrutiny Committee was constituted on 16th December, 2020
- The scrutiny committee has been met and thoroughly scrutinized the application in two phases (i.e. 11.01.2021 & 27.01.2021)
- The office of Dean (IRAA) collected nominations which were reviewed, validated by a Scrutiny Committee (SC) chaired by the Dean (IRAA) and submitted to DAA Selection Committee.
- The DAA Selection Committee, as approved by the BOG, NITW, consists of the Director, BOG Member, Eminent Scientist, An Eminent Industrialist, An Eminent Academician / Senior Faculty Member Etc.
- The Selection Committee was met on 27th February, 2021 and finalized the winners for the Distinguished Alumnus Awards for three Years i.e 2018, 2019 & 2020.
- The DAA Awardees have been declared during the Selection committee meeting and the official announcement was published on 1st March, 2021.

Distinguished Alumnus Awards Ceremony

- ✓ On 10th October, 2021 NITW Organised an event on Presentation of Distinguished Alumnus Awards for the winners of 2018, 2019 & 2020 on the auspicious occasion of Institute Foundation Day and Alumni Day
- ✓ The Chief Guest for this event was Dr. BHVS Narayana Murthy, Director General – DRDO's Missile and Strategic Systems.
- ✓ The DAA Award Ceremony was coordinated by the Dean, International Relations & Alumni Affairs.
- ✓ The Ceremony was held in Hybrid mode with You Tube live Streaming
- ✓ From 30 Awardees - 13 Alumnus were awarded physically on the occasion and 17 were present virtually.
- ✓ There was also organised a Textbook donation to the needy poor students studying at NITW which was donated by the 1980 RECW Alumni Batch.

Following are the awardees for **Distinguished Alumni Awards 2018, 2019 & 2020**

National Institute of Technology Warangal

Congratulations to Distinguished Alumni Awardees-2018

Distinguished Alumni Professional Achievement Award- DAPAA



Ch. Anantha Reddy,
B.Tech (MET), 1970
Chairman & MD,
Kartikaya Industries P. Ltd



P. Dwarakanath,
B.Tech (ME), 1978
CMD (Retd.),
BEML Ltd., Bengaluru



Bhasker M. Gorti
B.Tech (EEE), 1988
President,
A&A, NOKIA



MV. Subba Rao
B.Tech (MET), 1984
CMD,
Kudremukh Iron & Steel Co Ltd



Dr. T. Bhaskar
B.Tech (MET), 1990
Senior Vice President,
Usha Martin Ltd, Jamshedpur



KC. Tiwari
M.Tech (CE), 1977
Team Leader/
Road Safety Audit Expert



P.S. Subramanyam
B.Tech (ME), 1973
Program Director
Light Combat Aircraft
, DRDL



P. K. Rath
B.Tech (MMED), 1982
CMD, RINL



Srinivas Veerasuneni
B.Tech (ME), 1986
Senior VP and CTO,
USG Corporation, Chicago USA



T. Satyanarayana Reddy
B.Tech (CE), 1968
Director Grade Scientist,
Central Road Research Institute

Distinguished Young Alumni Professional Achievement Award DYAPAA



Naresh Kumar Dubbudu,
B.Tech (ME) 2004
MD, Abhyaas Edu. Corp



Murali Mohan Gade
B.Tech (EE), 2002
SCIENTIST 'F',
D.R.D.I.

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National Institute of Technology Warangal

Congratulations to Distinguished Alumni Awardees-2020

Distinguished Alumni Professional Achievement Award- DAPAA



B. Balabhaskara Reddy,
B.Tech (CE) 1990
Advisor and Head Portfolio,
Results and Quality Control Unit
PARD, Philippines



Nag Patibandla,
B.Tech (MME), 1983
Vice President,
Engineering Office of the CTO, CA



PRK. Murthy,
B.Tech (CE), 1982
Director Projects,
Mumbai Metropolitan Region
Development Authority (MMRDA)



Baru. Sreenivasa Rao,
B.Tech (ECE), 1981
Operations, Industrialization and
Transformation Leader



Venkat Pulela,
B.Tech (ECE), 1990
Distinguished Engineer / Evangelist,
Broadcom, San Jose



Madhava Rao Yalamanchili,
B.Tech (MET) 1980
Head of Photomask Etch Business group,
USA



Aarthi Subramanyam,
B.Tech (CSE)
Group Chief Digital Officer at Tata Sons Private
Limited

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National Institute of Technology Warangal

Congratulations to Distinguished Alumni Awardees-2019

Distinguished Alumni Professional Achievement Award- DAPAA



A. Narasimha Rao,
B.Tech (ME) 1982
Freelance Consultant,
GTD Trainer,
Career Mentor



Mahendran Balachandran,
B.Tech (ME) 1986
General Partner, Accel,
American venture capital
firm



Mallikarjun Tatipamula,
B.Tech (ECE) 1986
CTO,
Ericsson Silicon Valley



M.S. Raghu Chandra Dev,
BE (ME), 1966
Chairman,
Vidya Bharathi Group of
Institutions



P. Seshu Pasumarthy,
B.Tech (ME), 1984
Director, JIT Dharwad

Distinguished Young Alumni Public Service Award- DYAPSA-



Raghuveer,
M.Sc-Tech, 2006
Manager,
GSS Pvt.Ltd, Hyderabad

Distinguished Alumni Public Service Award- DAPSA



T. Krishna Prasad,
B.Tech (ME), 1983
DGP, Railways and
Road Safety



D. Ramagoalah Shastri,
B.Tech (ME) 1991
Poet and lyricist, Telugu
Film Industry



P. Sridhar,
B.Tech (CE) 1991
Principle Chief Commissioner of
Income Tax of Karnataka and Goa



MD. Imtiaz, B.Tech (CE) 1986
Collector & District Magistrate
Krishna District, AP



G. Muralidhar,
B.Tech (ECE), 1986
Chief Mentor,
Akshara Livelihoods; Co-lead and
Mentor, AP Community-Managed
Natural Farming

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Address by the Dean, IR&AA – **Prof. N. Selvaraj**



Prof. CSRK Prasad, Advisor CRRM to Director
Briefing about Distinguished Alumnus Awards



Address by **Shri. Alapati Prasad**, President NITWAA



Address by **Prof. N V Ramana Rao** Director,
NITW



Inauguration – Lighting Lamp by the Chief Guest
Dr. BHVS Narayana Murthy



Felicitation by the Chief Guest to **Prof. P. Seshu**
For Distinguished Alumnus Professional
Achievement Award – 2018



Felicitation by the Chief Guest to **Shri. MD Imtaiz**,
IAS For Distinguished Alumnus Public Service Award –
2019



Virtually Attended Awardees



Dr. Srinivas Veeramasoneni awarded virtually For Distinguished Alumnus Professional Achievement Award – 2018



Shri. Ramajogaiah Sastry Awarded virtually for Distinguished Alumnus Public Service Award 2019



MS. Arti Subramanyan a first female Awardee awarded virtually for Distinguished Alumnus Professional Award - 2020



Distribution of Text Books to the Poor Students of NITW donated by **1980 Alumni Batch**



Felicitation to the **Chief Guest**



Concluded with vote of thanks by **Dr. P Abdul Azeem** Associate Dean, Alumni Affairs

Teachers Day Celebrations by NITWAA Warangal Chapter

NITWAA Warangal Chapter and GTDTC Organised Teachers Day Celebrations on 05th September, 2021 at Bose Hall, NITW and Chief Guest for the event was **Prof. N V Ramana Rao**, Director NITW & Chief Patron NITWAA 15 Faculty and Director were felicitated on this occasion.



Get Together NITWAA Warangal Chapter

NITWAA Warangal Chapter Organised Family Get Together of Warangal Chapter was held on 03rd October, 2021 and the following members were the guest for the event.

- Chief Guest - Prof. N V Ramana Rao, Director NITW
- Honorable Guest - Er. Shri. Ravi Naik, IAS, Collector Jagityal
Er. Shri. B. Shankar Naik, MLA Mahabubabad
- Distinguished Guests - Prof. PG Sastry, Former Principal, RECW , Director Ramky Group
Prof. M. Pandu Ranga Rao, Convenor INTACH & Kakatiya HeritageTrust.



Curriculum Revisions and Introduction of New Programs

This year NITW stands in awe and takes the distinction of implementing National Educational Policy 2020 guidelines. In compliance with several guidelines enshrined in NEP 2020 to promote multi-disciplinary research and holistic education the Institute has successfully completed revision of the scheme and syllabus of all the UG/PG /Ph. D programs with effect from current academic year 2020-2021. As part of the revised curriculum One- Year Diploma programs and Five-year Integrated programs are offered to students at UG and PG Levels.

Department of Civil Engineering:

Details of New programmes (Effective from AY 2021-22):

- ONE-YEAR PG DIPLOMA in Prefabricated Construction
- ONE-YEAR PG DIPLOMA in Engineering Structures
- ONE-YEAR PG DIPLOMA in Transportation Engineering
- ONE-YEAR PG DIPLOMA in Water Resources

- Engineering
- ONE-YEAR PG DIPLOMA in Geo-Technical Engineering
- ONE-YEAR PG DIPLOMA in Environmental Engineering
- ONE-YEAR PG DIPLOMA in Remote Sensing and GIS
- ONE-YEAR PG DIPLOMA in Waste Management

Total Summary of Credits (Semester wise) for a Representative Course

TOTAL SUMMARY OF CREDITS (Semester Wise)

Category	I	II	Total
PCC	13	13	26
PEC	9	9	18
SEM	1	0	01
CVV	0	1	01
Total	23	23	46

Nomenclature:

- Program Core Courses (PCC)
- Program Elective Courses (PEC)
- Seminar(SEM)
- Comprehensive Viva-Voce(CVV)

Self-Financed seats in existing M.Tech Courses:

- Engineering Structures Geo-Technical Engineering
- Transportation Engineering
- Water Resources Engineering Remote Sensing &
- Geographic Information Systems Environmental Engineering
- Construction Technology and Management
- Waste Management



Prof. Rathish Kumar, Head
Department of Civil Engineering

Department of Electrical Engineering:

The NEP 2020 and its implementation was discussed at the institute and the Institute Senate circulated a few guidelines and framework for the curriculum revision which was due from AY 2021-2022. In line with these directives, the Department constituted a core committee and Sub-committees to look into the curriculum revision of BTech (Electrical & Electronics Engineering) program, MTech (Power Electronics & Drives, Power Systems Engineering and Smart Electric Grid) programs, Minor in Electrical Engineering and BTech Honors Program on 17th May 2021. Each sub-committee was chaired by a professor and other faculty members. A series of meetings were held within the committees and the chairmen presented the revised scheme of allocated domain of programs and these recommendations and suggestions regarding scheme and syllabi were discussed and finalized in several all faculty meetings held over a period of time.

Subsequent to several rounds of All Faculty meetings the scheme and syllabi of the programs offered by the department were finalized and the said draft of curriculum revision was shared with external members of BoS composed of experts from academia and industry.

The BoS meetings for the UG program was held on 30th July 2021 with HoD as Chairman and Prof. H. M. Suryawanshi from VNIT Nagpur, Prof S Srinivas from IIT Madras as External academic Experts and Sri B Kondal Rao as Industry expert from Hitachi ABB power grids. Prof N V Umamahesh from Department of Civil Engineering NIT Warangal was an allied department member. All faculty of the department are members of the BoS.

The PG BoS was held on 2nd August 2021 with HoD as Chairman and Prof Kishore Chatterjee, from IIT Bombay as External academic Expert and Dr M .Mohan Rao as Industry expert from BHEL R & D Hyderabad for MTech (PED) program. Prof. B Kalyan Kumar from IIT Chennai and Dr T Bhavani Shanker from CPRI Bangalore are BoS external members for MTech (PSE) program. Prof. Debapriya Das from IIT Kharagpur and Dr P Balakrishna from GE Renewable Energy Hyderabad are external BoS members for MTech (SEG) program. Prof N V Uma mahesh from Department of Civil

Engineering NIT Warangal was an allied department member. All faculty of the department are internal members of the BoS.

The UG BoS and PG BoS External members appreciated the efforts of the department for redesigning the curriculum, to suit the needs of the current research areas of electrical industry. The highlights of the curriculum revision are presented below.

BTech I Year (EEE)

BTech I year is made branch specific. Students start the basic electrical engineering courses like Basic Electrical circuits and Electric & Magnetic fields at first year level. Induction program is made a mandatory non- credit course at the institute level. English for oral communication and report writing is made specific for EEE students. Engineering Physics, Chemistry and Problem solving and computer programming are introduced as 4 credit courses. A course on Thermodynamics for Electrical Engineering and workshop practice for Electrical Engineering are introduced.

BTech II Year (EEE)

Python Programming Theory & Lab course is introduced to give exposure to the latest problem solving techniques and tools. In this Course theory related to Python data structures – lists, tuples and dictionaries are discussed in detail and practice to develop code related to various engineering problems in general and electrical engineering related problems in particular are incorporated in laboratory sessions. Power Economics & Accountancy course is introduced to give exposure to the Macro Economic Environment at National Level, contemporary electricity act and its implications on power markets, various methods of Economic Analysis, costs and their role in pricing. So that exposure of deregulated electricity, markets trends, option for selecting various service providers etc will be developed. Analog Electronics and Data Structures, Electrical Measurements & Instrumentation are introduced as 4 credit

Courses. B.Tech. III Year (EEE)

Synthesis of Digital Systems (3 credits) and Digital Synthesis Lab (2 credits) are introduced as Professional Core Courses and will be handled by the Electronics and Communication Department. As a Department Elective, Energy Analytics (3 credits)

and Basics of Internet of Things (3 credits) are introduced, these courses will be handled by the School of Management and Electrical Engineering department, respectively.

Smart Grid Technologies (3 credits) and DSP lab (2 credits) are introduced as Professional Core Courses, these courses will be handled by the Electrical Engineering Department. Analog & Digital Communication systems (3 credits) is introduced as a Professional Core Course and will be offered by the Electronics and Communication Department. Swarm Intelligence Techniques (3 credits) and Introduction to Internet of Things (3 credits) are introduced as an Open Elective course by the Electrical Engineering Department.

BTech IV Year:

Numerical Optimization techniques is introduced as department electives and will be offered by the Mathematics department. The II semester is dedicated to Elective courses and Project work. A student can opt for a semester-long industry internship. Bio Inspired algorithms & applications is introduced as an elective and will be offered by the department.

Minor in Electrical Engineering:

The department has introduced a minor program in Electrical Engineering for non- electrical students. The students are given an opportunity to explore the core topics in the field of Electrical Engineering by studying Electrical Circuits & Energy Conversion systems, Electrical Measurement Techniques, Elements of Electrical Power Systems, Industrial Applications of Electrical Energy, Power converters & Applications and Energy Conservation & Audit as

part of the minor program. The courses are offered starting from III semester to VIII semester for non-electrical students.

Honors in Electrical & Electronics Engineering:
The BTech (EEE) students are given an opportunity to study high level and research-oriented courses towards the Honors program. This will allow them to choose any research area for their higher studies in electrical engineering, right at BTech level. The students are exposed to Instrumentation & Automation, Digital Control Systems, High Power Inverters, Advanced Computational Methods in Power Systems, Power Quality Improvement Techniques, Digital Protection of Power Systems as part of the Honors program. These subjects are offered starting from V semester to VIII semester of the BTech program.

MTech (PED, PSE, SEG)

The PG curriculum was revised to suite the modern-day electrical industry needs. Numerical Optimization techniques (PSE & PED) is introduced as a prerequisite for the Evolutionary Algorithm Applications in Power Engineering (PSE, PED & SEG). Restructured Power Markets (SEG), Data Science applications in Power Engineering (PSE) are introduced as core courses and Machine Learning & Applications (PSE & SEG) is introduced as an elective course. State of the art professional elective courses introduced in the PED program are Advanced Control Techniques for Power Converters, Power Converters & Control Techniques for Microgrids, Predictive Control of Power Converters & Drives



Dr. M Sailaja Kumari, Head
Department of Electrical Engineering

Department of Mechanical Engineering:

The department of mechanical Engineering has restructured the syllabus as per NEP guidelines 2020. The modified syllabus is expected to make the student ready with full-fledged skillset as per the present-day and future requirements. The content of the core courses has been updated and new courses are added. As per the guidelines the minimum credits to be earned by the student has been modified from 173 to 160 for BTech program and for MTech program from 75 to 80. The faculty of Mechanical Engineering along with the experts from Academia and Industry have made the following changes:

Highlights:

- The basic science courses have been fine tuned to meet the requirements of Mechanical Engineering and allied areas.
- To develop communication and writing skills of the student a new course "Communication Skills and Report Writing" has been implemented and the course "Engineering Economics and Costing" is updated.
- Pertaining to professional core courses to develop the skill set required for a Mechanical Engineer the syllabus of the core courses is updated and the following courses are introduced.
- **Design Thinking and Design Studio Courses:** A couple of out-of-the-box courses in the very beginning of the UG program i.e. I Sem and II Sem are introduced which are aimed to enthuse, excite, and create interest towards engineering in the students by exposing them to a systematic process of designing and development of a product. These two courses (on Design Thinking and Design Studio) are unconventional as the emphasis is not on lectures and exams. With minimal input, students are expected to go through a process of a empathetic need identification, problem definition, ideation, prototyping and product realization. Such a process is expected to make the students experience the joy of learning and they are likely to become intense learners of engineering courses and continue to work on the projects of their choice beyond needs of the curriculum.
- Engineering Graphics: The syllabus is restructured so that student has the exposure of both conventional and AutoCAD based drawing.

- Engineering Computational Laboratory: A new computational laboratory is introduced in the 1st year to give the students exposure to MATLAB and Python programming environment. The course is expected to help the students to apply machine learning and deep learning strategies in Mechanical Engineering applications like scheduling, supply chain management, forecasting, autonomous vehicles navigation and other Industry 4.0 applications.
- ✓ Electrical machines and controls: As the automobile industry is expected to experience a phase shift from petrol/diesel powered to battery powered. A new course is tailored as per the requirement.
- ✓ Operations Planning and Control: To get a bird's eye view of a factory environment, this subject was introduced with topics on Forecasting, Aggregate planning, MRP, ERP, Scheduling, Factory physics, Just-in-time production systems and Theory of Constraints.
- ✓ CFD Laboratory: To meet the requirements of the industry a CFD lab is introduced where the students develop expertise in a commercial CFD package.
- ✓ Robotics: A course on broad area of robotics is one of the thrust areas and a key element of industry 4.0. Robotics course is made as a core course which ensures every UG student of the department gets familiarized with this thrust area. The course includes topics on kinematics, dynamics, path planning, robot simulation etc.
- The electives list is updated so that the student has the choice of selecting as per the domain of interest. The course content of these electives are restructured in line with the requirement of industry.
- To meet the requirements of allied departments the mechanical engineering department will be offering 16 service courses which are tailored made as per the requirement.
- The department will be offering a new program "PG Diploma in Additive Manufacturing" effective from AY 2021-22.
- **Self Financed seats in existing M.Tech Courses**
 - ✓ Thermal Engineering
 - ✓ Manufacturing Engineering
 - ✓ Computer Integrated Manufacturing
 - ✓ Machine Design
 - ✓ Automobile Engineering
 - ✓ Materials and Systems Engineering Design
 - ✓ Additive Manufacturing

➤ **Honors in Mechanical Engineering:** The BTech (Mechanical Engineering) students are given an opportunity to pursue masters level /research-oriented courses towards honors program. The following areas are provided as a part of honors program

- ✓ Honors in Thermal Engineering
- ✓ Honors in Advanced Materials
- ✓ Honors in Design Engineering
- ✓ Honors in Smart Manufacturing

➤ **Minor in Mechanical Engineering:** The students of other departments are given an opportunity to have an insight of core Mechanical Engineering courses. The program is expected to inculcate the students to work in interdisciplinary areas. The following subjects are proposed under the minor program

- ✓ Fluid Mechanics and Heat Transfer
- ✓ Applied Thermal Engineering
- ✓ Manufacturing Engineering

- ✓ Kinematics and Dynamics of Machinery
- ✓ Solid Mechanics and Machine Design
- ✓ Operations Management
- ✓ Measurements & metrology
- ✓ Robotics
- ✓ Total Quality Management



Prof. Adep Kumar, Head
Department of Mechanical Engineering

Department of Electronics and Communication Engineering:

The Department offers Bachelors in Technology in Electronics and communication engineering and Master in Technology programs in three specializations – Electronic Instrumentation and embedded systems (EI&ES), VLSI system design (VLSI), and Advanced communication systems (ACS). Several meeting have been conducted within the department and industry experts to revise the syllabus as per NEP policy. Most of the course syllabuses have been revised with inclusion of advanced topics of interest for industry to increase the employability of the students. Several new state of art courses have been introduced in new curriculum of B. Tech and M. Tech programs as given below.

B. Tech: Programming using Python, Signals and Systems with MATLAB, Introduction to AI & Machine Learning, Design Thinking/Tinkering Lab, FPGA Design, Intelligent CAD, secured communications, industry internships and Engineering projects in community services (EPICS) etc.

M. Tech (EI & ES): Electronic system design, computer vision and pattern recognition, advanced DSP techniques and applications, Machine learning

for speech and Image processing, Bio-medical signal processing and deep learning techniques for signal processing, etc.

M. Tech (VLSI): Power management IC design, Electronics systems packaging, advanced VLSI interconnects, organic electronics, etc.

M. Tech (ACS): Advanced communication networks, IoT and sensor networks, FPGA system design, cyber and network securities, Embedded real time operating systems, etc.



Prof. L. Anjaneyulu, Head
Department of Electronics and communication
Engineering

Department of Metallurgical and Materials Engineering:

The syllabus of basic science courses tuned to suit the requirements of metallurgical and materials engineering. Further the courses are renamed as Physics for metallurgists and Chemistry for metallurgists.

A new course Introduction to Materials Science has been introduced in the first semester to develop an awareness and interest in the branch specific subjects.

An introductory course on Mineral Processing is being offered in the second semester to provide substantial knowledge on extractive metallurgy.

Polymer Technology course is offered as a core course to strengthen the materials aspect of the BTech curriculum.

To enhance the job opportunities, a hands-on course on Non-destructive testing has been introduced in the seventh semester.

To strengthen the curriculum with current trends in engineering, a course titled AI & ML for materials scientists was added in the electives basket.

The branch specific course contents were updated with the advanced topics in materials engineering e.g. additive manufacturing, meta materials, high entropy alloys etc.

Department of Chemical Engineering:

The syllabus of basic science courses tuned to suit the requirements of Chemical Engineering with its names renamed accordingly (Example: Biology for Chemical Engineering, Physics for Chemical Engineering, Physics for Chemical Engineering, Integral calculus and Laplace Transforms, etc.)

A new course Introduction to Materials Science and Engineering has been introduced in the first semester to strengthen the materials aspects

To meet current industrial practices, advanced technologies and sustainable process developments led to introduce additional electives (Energy Management, Mechanical design and drawing, Fuel and combustion,

The credit requirement of the final semester is lightened so as to facilitate the student for industrial training.

Students are permitted to undergo elective courses of their choice in MOOC platforms.

The department is offering a Minor in Materials Engineering with a focus to impart required and current knowledge on materials for engineers of different branches. We strongly believe this course may be attractive for students of mechanical, civil, electrical, chemical engineering and biotechnology.

The newly introduced Honors program will give a chance for toppers to achieve the highest level of competency in the branch



Dr. Asit Kumar Rana, Head
Department of Metallurgical and Materials
Engineering

Energy Technologies, Analytical Techniques for chemical Engineers, Biomass and Biofuels Technology, Biochemical Engineering Fundamentals, Waste water treatment, Advanced control systems, Plant utilities, etc.) All the courses are revised accordingly covering sustainability concepts wherever needed To strengthen the aspects of circular economy a course on "Process integration" has been added "Scientific computing with Python and R" has been introduced to utilize this platform for understanding and implementation of Artificial Intelligence/Machine Learning to process industries

Minor course on "Chemical Engineering" is introduced for all other branch students Honors in "Chemical Engineering" has been introduced to further enhance understanding of the domain knowledge for industry/research ready Domain expertise led to offering service courses to other departments ("Polymer Technology" to MME department, and "Bioprocess Engineering Economics" to Biotechnology)



Dr. S. Srinath, Head
Department of Chemical Engineering

Department of Computer Science and Engineering:

As per NEP guidelines 2020, the Department of Computer Science and Engineering has revised the existing curriculum and has designed new scheme and syllabus for both UG and PG programs. As part of curriculum revision, the department has started offering one Minor program in CSE and B. Tech. Honors in CSE from 2021-2022 academic year onwards. Core Computer Science subjects need strong mathematical background and computational knowledge, and thus the department added a good number of mathematics subjects related computer science, besides Computational Thinking Practice, in the revised curriculum of UG and PG programs. Additional lab and tutorial hours are also included so that the students can spend more time in practicing the concepts. Since

advances in the Computer Science extending its horizons in both depth and breadth manner, new courses such as Deep Learning, Reinforcement Learning, Microprocessor, Internet of Things, Blockchain Technologies and Software Defined Network are introduced in the new curriculum.



Prof. P. Radha Krishna, Head
Department of Computer Science and Engineering

Department of Biotechnology:

The UG and PG curriculum of Biotechnology were revised in line with the Institute guidelines. The Director had nominated Prof. A. Venu Vinod, Professor, Department of Chemical Engineering as our Chairman, Board of Studies. Under the leadership of the Chairman, BoS the HOD, has constituted a curriculum revision committee, for both the UG and PG programs and nominated the faculty coordinators for curriculum revision. Dr. P. Sreenivasa Rao and Dr. Onkara Perumal P were nominated as PG and UG coordinators respectively. Three workgroups namely biological engineering, biological sciences and computational biology were constituted with a convener for each workgroup. Dr. V. Kohila and Dr. P. Shyam were nominated as conveners for PG program workgroups. Dr. B. Rama Raju, Dr. Amitava Bandhu and Dr. Asim Bikas Das were nominated as conveners for UG program workgroups.

A series of meetings were held within and across the workgroups. The recommendations and suggestions regarding the scheme and syllabi were discussed in several all faculty meetings held over a period of time. Subsequent to several iterations

of all faculty meetings the scheme and syllabi of the programs were shared with external members of BoS composed of experts from academia and industry.

The BoS meetings for the PG and UG programs were held on 05th & 06th August 2021 under the leadership of Chairman, BoS and HOD. Prof. Sathyanarayana N. Gummadi, Department of Biotechnology, IIT Madras, External Member, (Academic), Prof. V. Venkata Dasu, Department of Biosciences & Bioengineering, IIT Guwahati, External Member, (Academic), Dr. K. Srinivasa Babu, GE Life Sciences, Hyderabad, External Member, (Industry). All faculty of the Department are members of the BoS.

The BoS external members have given their valuable inputs and appreciated the efforts of the Department for revising the curriculum, to suit the needs of the current research areas of Biotech R&D and industry. The highlights of the curriculum revision are presented below.

B. Tech. I Year (BT)

B. Tech. I year is made branch specific. Engineering Physics, Chemistry and Problem solving and computer programming are introduced as 4 credit

courses (theory & laboratory). A Professional Core Course (PCC) Bioprocess calculations is introduced.

B. Tech. II Year (BT)

Python Programming and SQL (Theory & Lab) biocomputing course is introduced to give exposure to the latest problem solving techniques and tools. Academic laboratory safety practices is introduced to give exposure to the students on safety and will be offered by Chemistry Department. Enzyme Technology course is introduced along with an array of elective courses in biological engineering, biological sciences and computational biology have been introduced.

B. Tech. III Year (BT)

Structural Biology, Analytical Biotechnology and Systems Biology courses are introduced as Professional Core Courses.

B. Tech. IV Year (BT)

Bioprocess Engineering Economics is introduced as Engineering Science Course and will be offered by the Chemical Engineering department. Computational Methods in Drug Discovery is introduced as a Professional Core Course. The II semester is dedicated to Elective courses and Project work. A student can opt for a semester-long industry internship. An array of electives course including PG level electives are introduced and will be offered by the department.

Minor in Biotechnology:

The department has introduced a minor program in Biotechnology for non- biotechnology students. The students are given an opportunity to explore the core courses (theory & laboratory) in the field of Biotechnology & apply the concepts in their respective core branch of study. The courses are offered starting from III semester to VIII semester for non- biotechnology students.

Honors in Biotechnology:

The B. Tech. (BT) students are given an opportunity to study higher level and research-oriented courses towards the Honors program. This will allow them to choose any research area for their higher studies in Biotechnology, right at B. Tech. level. The students are exposed to M. Tech. level courses (only theory) as part of the Honors program. These subjects are offered starting from V semester to VIII semester of the B. Tech. program.

Service Courses (offered to other Engineering Departments):

The Department offers tailor made service courses to Civil Engineering, Computer Science and Engineering, Chemical Engineering and Electronics and Communications Engineering Departments.

M. Tech. I Year (BT)

The PG curriculum was revised to suite the modern-day Biotech industry needs.

M. Tech. II Year (BT)

The II year is dedicated to Dissertation work. A student can opt for a year -long industry internship.



Dr.K.Narasimhulu, Head
Department of Biotechnology

Department of Mathematics:

- Introducing a 5-Year Integrated MSc course in Mathematics from the AY 2021-'22 where students are to be admitted through JEEMAINS
- Introducing a Minor Program in Applied and Computational Mathematics comprising of six subjects, viz., (i) Mathematical Foundations for Machine Learning, (ii) Statistics for Data Science, (iii) Computational Methods and Design of Experiments, (iv) Search Methods in

Artificial Intelligence, (v) Fuzzy Logic and Applications, (vi) Mathematics with Applications in Finance



Dr. P. Muthu, Head
Department of Mathematics

Department of Physics:

From the academic year 2021-2022, a 5-year Integrated MSc in Physics will be offered, with candidates admitted through JEE MAINS. This course is based on the NEP 2020 standards. The first three years of the curriculum are shared by the math, physics, and chemistry departments. The course's major goal is to develop competent science teachers, scientists, and researchers. There are two options for departure. One at the end of three years for B.Sc Engineering Physics, and the other at the end of the fourth year for B.Sc honours.

The structure and syllabi of M.Sc.Tech Engineering physics have been changed for the 2021-22 academic year. Several new elements, such as Program Educational Objectives (PEO), Program

Articulation Matrix, Program Outcomes (PO), Course Objectives (CO), and course articulation matrix, have been added, similar to engineering departments. This will ensure that the institute's structure and syllabi are consistent throughout all courses. New electives are added with cutting edge technologies. One departure is suggested at the end of the third year.



Prof. Dinakar D., Head
Department of Physics

Department of Chemistry:

INTEGRATED M.Sc. IN CHEMISTRY FROM 2021-2022 AY ONWARDS

- 1) As per the NEP-2020 Policy, Department of Chemistry is offering a new **Integrated M.Sc. programme in Chemistry with intake of 20** through **JOSAA based on JEE Rank**.
- 2) It is a 5 year program, after 5 years M.Sc degree is awarded in concern branch. However, students have an option to exit after THREE years, then B.SC degree is awarded.
- 3) Students will be trained towards Research and Teaching using the Infrastructure available at NITW.
- 4) The unique feature of the program is there are few Engineering subjects in curriculum besides several elective subjects.

2^{yr} M.Sc. PROGRAMME (ORGANIC AND ANALYTICAL CHEMISTRY)

- 1) As per the guide lines, Department has been thoroughly modified the syllabi and bring down to 80 credits comprises of PCC 51 credits, PEC 15 credits and Seminar/Comprehensive Viva/Project 14 credits.
- 2) The intake for 2^{yr} M.Sc. programme is 60 (30 in Organic and 30 in analytical Chemistry) through JAM Entrance Exam.
- 3) Students are well trained to carry forward the Research as well as Teaching.

BRANCH SPECIFIC CHEMISTRY COURSES FOR B.TECH. PROGRAMME

- 1) As per the guide lines, Department has designed branch specific chemistry courses to suite their programme.
- 2) Except CSE Department, all the department felt chemistry course is essential for the 4^{yr} B.Tech. programme.
- 3) Department is offering two open elective courses, Fundamental Methods of Chemical Analysis for 3rd year B. Tech. Students and Chemistry of Nanomaterials for 4th year B. Tech students.

MINOR PROGRAMME FOR B.TECH. STUDENTS

- 1) As per the guide lines, Department has designed minor programme in Industrial Chemistry.
- 2) With minor degree, students can explore good opportunity in chemical Industry.



Dr. Vishnu Shanker, Head
Department of Chemistry

School of Management:

In the contemporary world of rapidly changing global business, which are technology intensive and consumer oriented, the acumen needed for managers is being revolutionized. The school of Management updated a well-balanced combination of academic and practical business oriented content by considering the National Education Policy (NEP) objectives. The updated curriculum with its wide range of video materials, databases like proweess, case studies, research projects and other tools aim at enhancing the understanding of the business reality and imbibing problem-solving skills. New Courses and labs such as Social Impact Lab, Business Analysis, Behavioural Lab, Simulation Lab and many new courses at each specialization level are included. Mandatory noncredit courses like positive wellbeing, Human Values and Ethics,

corporate grooming are included. In addition, a contemporary elective is offered every quarter to help them understand the latest trends in Business.



Prof. M. Ravindar Reddy, Head
School of Management

Department of Humanities and Social Sciences:

As per NEP guidelines 2020 the Department of Humanities and Social Sciences has revised the syllabi of existing courses and has designed 16 new courses at UG/PG/PhD levels. As part of curriculum revision the department has been offering a Minor program titled 'Professional Communication Skills forSTEM



Dr. Madhavi Reddy Kesari, Head
Department of Humanities and Social Sciences

Superannuation



Prof. A. Ramachandraiah, Professor (HAG), Department of Chemistry retired from the service after attaining the age of superannuation on 31-07-2021. Prof. Ramachandraiah joined the Department of Chemistry in 1985 and has served in various capacities over the last 35 years. Prof. Ramachandraiah has more than 35 publications and over 40 conference proceedings. He has authored 6 books and have guided a dozen of researchers for their doctoral degree.



Prof. RLN Sai Prasad, Professor, Department of Physics retired from the service after attaining the age of superannuation on 31-07-2021. Prof. Sai Prasad has joined the Department of Physics in 1986 and has served in various capacities over the last 35 years. Prof. Sai Prasad has more than 45 publications and over 50 papers published in conference proceedings. Prof. Sai Prasad was granted 8 projects and has guided several research students.

Independence Day Celebrations



Prof. NV Ramana Rao, Director NIT Warangal Addressing the staff and students on the occasion of 75th Independence Day

National Open Athletics at NIT Warangal

The 60th Open Nationals Race Walking Event, which has been, organized at our Campus in 20kms, 35kms, 50kms Men and Women events. Our Beloved Director has flagged off the event and distributed the Medals to the winners. Registrar also gave away the Medals for the winners. The events took place during 16th-18th September 2021 from morning 5.00am to 11.30 am.



Patents

Patri, Srilakshmi V, Ravula Venkatesh, Process For Preparing Farnesol-Based Cationic Lipids For Carrying Nucleic Acids In To Desired Cell Lines, 2021106376, Date:2021-08-21, Asian Patent, Filed

B.K.N. Srinivasarao, Electronic Jacquard Machine for Handloom Sector, Application No: 202141041502, Date: 15/09/2021, Filed

Mohamamd Farukh Hashmi, A System for Prediction and Alert Of Local Rainfall For Tribal Areas Using Ai And IoT, Application No.202141027509 A, Date: 09/07/2021, Filed

Dr. P. Abdul Azeem, P. Srinath, KVG Reddy, S Rajkumar, Sushil Patel, Krishnam Raju and M Bramanandam for an invention entitled "Calcium Silicate Based Nano Crystalline Ceramics: A Costeffective Method For The Preparation Using Natural Resources" application number 201941036738 for the term of 20 years from the 12th day of September 2019 in accordance with the provisions of the Patents Act,1970, Patent No. : 376586, granted



SCOPE

The Vigyan Prasar, a sub-wing of the DST, Govt. of India, has sanctioned us a 92 lakh rupees worth 3-year Project, entitled, Science Communication, Popularisation and Extension, acronymically, SCOPE, with **Prof. K. Laxma Reddy**, the Nodal Officer, Rashtriya Avishkar Abhiyan and Professor of Chemistry as the Principal Investigator and with **Prof. A. Ramachandraiah**, a recently retired Professor of Chemistry, as its Coordinator. Its mandate, as per the guidelines of the National Education Policy, NEP-2020, is to popularise breakthroughs in science and technology and to showcase them in the form of periodicals, booklets, webinars, etc in regional languages. Just a couple of days back, the August issue and the first of the monthly periodical, Vijnana Vani were released. The team expressed its thanks to the Govt of India for expanding our outreach activities, by sanctioning this Project, SCOPE with a wide scope to make S&T communication in Telugu in both Telangana and Andhra Pradesh states.

Projects

Dr. Balaprakash Rao received a project grant along with Dr.Rakesh Tripathi (Dept. of IT, NIT Raipur) titled "Blockchain-Enabled Digital Identity and Authentication for Dynamic KYC (Know Your Customer) in Banking and Finance" from PRAYAS scheme of Technology Incubation Hub (TIH) of National Mission on Interdisciplinary Cyber Physical Systems, IIT Bhilai for INR 8.3 Lakhs.



A project under "Student innovation program" by ARTPARK team of IISC Bangalore was granted to Mr. Vivek Dalai, MTech student under the guidance of **Dr. K V Kadambari**. The title of the project is "Masked face detection". Project is granted for 5.8 lakhs.

Dr. M. Srinivas received a grant to conduct an online skill development program from SERB under Advance for Accelerate Vigyan track.



Dr. V. Jayalakshmi, Department of Physics has received a grant of **Rs. 37.4** Lakhs from DBT to work on "Design and Development of cost-effective Label-free detection of Alzheimer's biomarkers using liquid crystals".

Dr. R. Vennela, Department of H&SS, NITW is sanctioned a Project titled "Developing a Pilot English-Telugu bilingual pedagogic picture dictionary resource and teacher resource book for low resource ESL contexts", Funded **Rs.5.16 lakhs** (Hornby Trust, United Kingdom): 28.07.2021.



S. Srinath & Prof Shirish H Sonawane Received India Govt Of Mint (Igm) Hyderabad Sponsored R&D Project " Development Of Technology For Color-Coated Coins/Blank/Medallions And Tokens For Atma Nirbhar Bharat "**10.4 Lakhs**, September 2021.



Books and Book Chapters

- **Kalpana Naidu**, et al. (2021), Optimal Resource Allocation Based on Particle Swarm Optimization. In: T. Laxminidhi, Prof. JyotiSinghai, Dr. Sreehari Rao Patri, V. V. Mani (eds) Advances in Communications, Signal Processing, and VLSI. Lecture Notes in Electrical Engineering. Springer, Singapore, 10.1007/978-981-33-4058-9 17
- **Kalpana Naidu**, et al, Automated Bayesian Drowsiness Detection System Using Recurrent Convolutional Neural Networks. In: T. Laxminidhi, Prof. JyotiSinghai, Dr. Sreehari Rao Patri, V. V. Mani (eds) Advances in Communications, Signal Processing, and VLSI. Lecture Notes in Electrical Engineering. Springer, Singapore.
- Naga Ramesh Korasikha, Thopudurthi Karthikeya Sharma, **Gaddale Amba Prasad Rao** and Kotha Madhu Murthy (2021) Recent Advancements in Thermal Performance Enhancement in Microchannel Heatsinks for Electronic Cooling Application in the Book-Heat Transfer - Design, Experimentation and Applications edited by Dr. Miguel Araiz:Licensee Intech Open DOI:10.5772/intechopen.97087.
- **Rebeka Vara Prasad**, Rachamalla Arun Kumar, Devendra Sharma, Atul Sharma, Subbiah Nagarajan, Chapter 21 - Sophorolipids and rhamnolipids as a biosurfactant: Synthesis and applications, Editor(s): Inamuddin, Charles Oluwaseun Adetunji, Abdullah M. Asiri, Green Sustainable Process for Chemical and Environmental Engineering and Science, Elsevier, 2021, Pages 423-472, ISBN 9780128233801, <https://doi.org/10.1016/B978-0-12-823380-1.00014-9>. (<https://www.sciencedirect.com/science/article/pii/B9780128233801000149>)
- **Saikumar Manchala**, Vijayakumar Elayappan, Hai-Gun Lee, Vishnu Shanker Chapter-7 Plasmonic photocatalysis: an extraordinary way to harvest visible light, Editor(s): Mohan Sakar, R. Geetha Balakrishna and Trong-On Do, Photocatalytic Systems by Design Materials, Mechanisms and Applications, Elsevier, 2021, Pages 187-216, ISBN: 978-0-12-820532-7 <https://doi.org/10.1016/B978-0-12-820532-7.000151> (<https://www.sciencedirect.com/book/9780128205327/photocatalytic-systems-by-design>)

- K Koteswara Reddy, K Yugender Goud, M Satyanarayana, Shekher Kummari, V Sunil Kumar, Harshad Bandal, Tippabattini Jayaramudu, Radha Devi Pyarasani, Hern Kim, John Amalraj, **K Vengatajalabathy Gobi**, Chapter-4 "Metal oxide-metal nanocomposite-modified electrochemical sensors for toxic chemicals" pp. 79-137 in Metal Oxides in Nanocomposite-Based Electrochemical Sensors for Toxic Chemicals, Eds. A. Pandikumar, P. Rameshkumar, 2021, Elsevier, ISBN: 978-0-12-820939-4, 0128209399
- R. Ramarajan, **D. Paul Joseph**, K. Thangaraju, and M. Kovendhan, "Role of Defects on the Transparent Conducting Properties of Binary Metal Oxide Thin Film Electrodes", Metal Oxides book series published by Elsevier Woodhead Imprint. The title of the book: Metal Oxide Defects: Fundamentals, Design, Development and Applications, ISBN:0323903592 Edited by Vijay Kumar, Sudipta Som, Vishal Sharma and Hendrik C Swart. (In Press).
- Putha Kishore, **Dantala Dinakar** and Manchineellu Padmavathi, "Fiber Optic Vibration Sensors", OPTO ELECTRONICS book published by Intech Open Book Series. DOI: 10.5772/intechopen.94013.



- **Altaf Q. H. Badar**, Evolutionary Optimization Algorithms, CRC Press, 2021, ISBN 9780367750541 (First Edition). (To be released on 12/10/2021)
- **M. Jerold**, A. Santhiagu, Rajulapati Sathish Babu and Narasimhulu Korapatti, Sustainable Bioprocessing for a Clean and Green Environment: Concepts and Applications, CRC Press, Boca Raton, United States (Taylor and Francis Group), 2021, ISBN No: 978-0367459086 (First Edition).
- S. Chakravarthi, G. Raj Kumar and **Shankar S.** (2020) Application of Cement in Pavement Engineering, Open Access peer reviewed chapter, Intech opens.doi:10.5772/intechopen.94062. (172 Downloads)

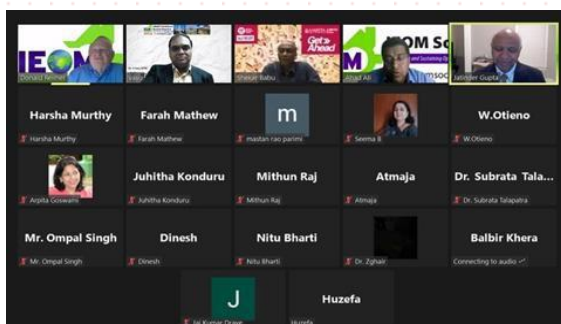
Awards, Outreach, Achievements and Distinctions

- **Central Library** received the award of Recognition of Excellence 2020 from Taylor & Francis Group for adapting and contributing towards the growing needs of online education in India.
- **Prof. K. V. Gobi** participated as External Academic Audit Committee member for the Academic courses of the Department of Applied Chemistry, Karunya Institute of Technology and Sciences, Coimbatore, Tamilnadu.
- **Dr. D. Kashinath and Dr. Ms. Raghasudha** are inducted as Members of the Core Committee of DST-VP-SCoPE Core Committee with Pof. K. Laxma Reddy as its Convener
- **Prof Debashis Dutta** has conducted TWO PhD Viva-Voce Examinations. One at Dept Mathematics of NIT-Puducherry (Online) on July 20. 2021. The second one at Dept Mathematics of GRI-Dindigul, (Online) on Aug 04. 2021.
- **Prof Debashis Dutta** has Conducted Phd Comprehensive Viva-Voce Exam (Online) of a student at Dept Mathematics of VIT-Vellore on Sept 06, 2021
- **Prof Debashis Dutta** has been appointed as a Member in the Editorial Board of the "Journal of Applied Mathematics and Statistical Analysis" by HBRP Publication Pvt Ltd, New Delhi on Sept 7, 2021
- **Prof Debashis Dutta** has Conducted Faculty Ratification Interviews at KLEF - Vijayawada on Sept 13, 2021.

- **Prof J V Ramana Murthy** has conducted PhD Viva-Voce examination at JNTU Anantapur on 16-06-2021.
- **Dr. Mohammad Farukh Hashmi**, Upgraded IEEE Senior Member
- **Prof. Debashis Dutta**, Dept. of Mathematics, has been awarded LIFETIME ACHIEVEMENT AWARD in the international scientist awards on Engineering, Science and Medicine on 21 & 22 May 2021, Chennai, India, Organized by VDGOD Professional Association.
- **Dr. B.K.N.Srinivasarao** audited the Academic activities of Dept. of Electronics and Instrumentation, VR Sidhartha Engineering College, Vijayawada On 17/09/2021 as External Academic Audit Member.
- **Dr. Mohammad Farukh Hashmi** Ph.D. Oral Viva Examinations Expert, Centre of Research, Anna University Chennai. On 20/09/2021
- **Dr. K. Madhavi** is nominated Member Core Steering Committee of RAA- Vigyan Prasar, DST, Govt of India., for Science Communication in Telugu Language, sanctioned project entitled "Science Communication, Popularization and Extension" SCoPE from 30 September 2021.
- **Dr.K.Madhavi** was invited as Member BOS at KSRM College of Engineering Ananthapuram on 22 Sept, 2021.
- **Dr. V Vasu**, Associate Professor, MED received "Outstanding Engineering Service 2021" from Institute of Engineers India (Jaipur Chapter) on the occasion of 75th Independence day on 15th August 2021.



- **Dr. V Vasu**, Associate Professor, MED acted as Co-chair for "The First Indian International Conference on Industrial Engineering and Operations Management"(IEOM India 2021)"Bengaluru , Karnataka, India August 16 - 18, 2021 - A Virtual Conference.

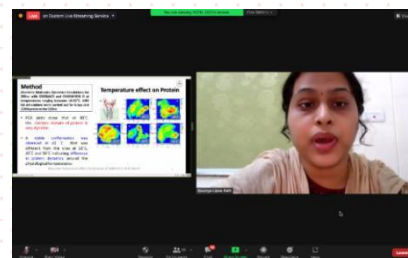


- On the occasion of 54th Engineers' Day, **Prof. Anand Kishore Kola** was awarded "The Engineer of The Year -2021" (For Teaching) by The Institution of Engineers (India), Telangana State Center on 15th September 2021.



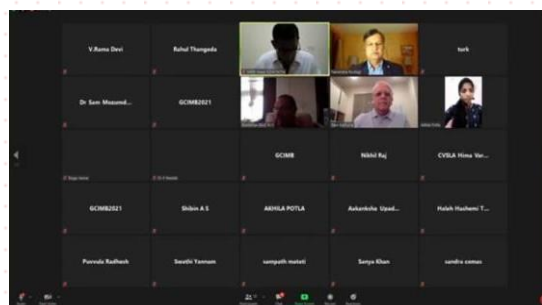
- Cover Image on Vol 125, No. 32, Journal of Physical Chemistry B (ACS Publications) was selected from a published article titled "Accelerating COVID-19 Research Using Molecular Dynamics Simulation" by **Dr. Soumya Lipsa Rath** from the Department of Biotechnology.

- **Dr. Soumya Lipsa Rath** gave a Flash talk on "How does temperature affect the dynamics of SARS-CoV-2 M proteins? Insights from Molecular Dynamics Simulations" on 28.09.2021, at the Physical Chemistry Physical Biology (PCPB), an online conference (held from 24-28th September, 2021) organized by IIT Tirupati, SNBNCBS Kolkata, IIT Bombay and IISc Bangalore (Sponsored by DST, GOI).



Conference Organized

- **School of Management**, NIT Warangal along with Chapman University and Howard University USA have organized a Global conference on Innovations in Management and Business during 27th and 28th July. The conference attracted over 260 participants from over 25 countries. A series of pre-conference workshops were also organized by eminent researchers to inculcate research practices in young scholars. The virtual event was well received and around 91% of the participants rated the conference as a great experience and around 97% would want to attend similar programs in the future.



- **Dr. D. Kashinath and Dr. Raghu Chitta** (As conveners) organized a 3 days International Conference on "Conventional and Digital Methods of Chemical Education" during 29-31 July 2021

Publications

- S Mamidala, SR Peddi, RK Aravilli, PC Jilloju, V Manga, **RR Vedula**, Microwave irradiated one pot, three component synthesis of a new series of hybrid coumarin based thiazoles: Antibacterial evaluation and molecular docking studies, Journal of Molecular Structure 1225, 129114, 2021
- Srikanth Mamidala, R Kowshik Aravilli, Gondru Ramesh, Shaik Khajavali, Raju Chedupaka, Vijjulatha

Manga, **Rajeswar Rao Vedula**, A facile one-pot, three-component synthesis of a new series of thiazolyl pyrazole carbaldehydes: In vitro anticancer evaluation, in silico ADME/T, and molecular docking studies, *Journal of Molecular Structure* 1236, 130356,2021

- Srikanth Mamidala, Venugopal Vangala, Saikiran Reddy Peddi, Raju Chedupaka, Vijjulatha Manga, **Rajeswar Rao Vedula**, A facile one-pot, three component synthesis of a new series of 1, 3, 4-thiadiazines: Anticancer evaluation and molecular docking studies, *Journal of Molecular Structure* 1233, 130111, 2021
- Parameshwara Chary Jilloju, Perugu Shyam, Ananthula Sanjeev, **Rajeswar Rao Vedula**, Four-component, one-pot synthesis of (E)-N-benzylidene-3-(benzylthio)-5-(3, 5-dimethyl-1H-pyrazol-1-yl)-4H-1, 2, 4-triazol-4-amines and their DNA binding and molecular docking studies, *Journal of Molecular Structure* 1225, 129140,2021
- Parameshwara Chary Jilloju, Leentje Persoons, Sathish Kumar Kurapati, Dominique Schols, Steven De Jonghe, Dirk Daelemans, **Rajeswar Rao Vedula**, Discovery of (±)-3-(1 H-pyrazol-1-yl)-6, 7-dihydro-5 H-[1, 2, 4] triazolo [3, 4-b][1, 3, 4] thiadiazine derivatives with promising in vitro anticoronavirus and antitumoral activity, *Molecular diversity*, 1-15, 2021

Parameshwara Chary Jilloju, Perugu Shyam, Chedupaka Raju, **Rajeswar Rao Vedula**, An Efficient One-Pot Synthesis of 6-Phenyl-3-(1 H-Pyrazol-1-yl)-[1, 2, 4] Triazolo [3, 4-b][1, 3, 4] Thiadiazole Derivatives and Their Antimicrobial Evaluation and Molecular Docking Studies, *Polycyclic Aromatic Compounds*, 1-15,2021

- Ravula, Venkatesh; Lo, Yu-Lun; Wang, Li-Fang; **Srilakshmi V. Patri**, Gemini Lipopeptide Bearing an Ultrashort Peptide for Enhanced Transfection Efficiency and Cancer-cell-specific Cytotoxicity. *ACS Omega* 2021, 6, 35, 22955–22968.
- Nitesh Bhalla, Nitin Ingle, **Srilakshmi V. Patri**, Haranath, Phytochemical analysis of Moringa Oleifera leaves extracts by GC-MS and free radical scavenging potency for industrial applications. *Saudi Journal of Biological Sciences*. 2021, In Press.
- Venkatesh Ravula, Yu-Lun Lo, Yi-Ting Wu, Chien-Wen Chang, **Srilakshmi V. Patri**, Li-Fang Wang. Arginine-Tocopherol Bioconjugated Lipid Vesicles for Selective pTRAIL Delivery and Subsequent Apoptosis Induction in Glioblastoma Cells. *Materials Science & Engineering C*, 2021, 126, 112189.
- Mallikarjun Gosangi, Venkatesh Ravula, Hithavani Rapaka, **Srilakshmi V Patri**. alpha-Tocopherol-anchored gemini lipids with delocalizable cationic head groups: Effect of spacer length on DNA compaction and transfection properties. *Organic & Biomolecular Chemistry*, 2021, 19, 4565 – 4576.
- Venkanna Muripiti, Brijesh Lohchania, Venkatesh Ravula, Shireesh Manturthi, Srujan Marepally, Amarnath Velidandia and **Srilakshmi V. Patri**. Dramatic influence of the hydroxy functionality of azasugar moiety in the head group region of tocopherol-based cationic lipids on in vitro gene transfection efficacies. *New J. Chem.*, 2021,45, 615.
- Shankar Barapati, **M. Raghassudha**, P. Veerasomaiah, Effect of Al Doping on Magnetic Properties of Co-Mn Nanoferrites Synthesized via Citrate-Gel Method, *Asian Journal of Chemistry*, Vol. 33, No. 5 (2021), 1125-1132.
- T. Pavithra, E. S. Devi, S. Nagarajan, V. Sridharan, C. U. Maheswari, Sulfur Catalyzed Metal- and Solvent-Free ABB'C Four-Component Synthesis of N-Arylidene-2-aryl-imidazo[1-2-a]azin-3-amines via Strecker Reaction, *ChemistrySelect*, 2021, 6, 3548.
- Patrycja Lach, Maciej Cieplak, Krzysztof R. Noworyta, Piotr Pieta, Wojciech Lisowski, Jakub Kalecki, **Raghu Chitta**, Francis D'Souza, Wlodzimierz Kutner, Piyush Sindhu Sharma. "Self-reporting molecularly imprinted polymer with the covalently immobilized ferrocene redox probe for selective electrochemical sensing of p-synephrine" *Sensors & Actuators: B. Chemical* 344 (2021), 130276.
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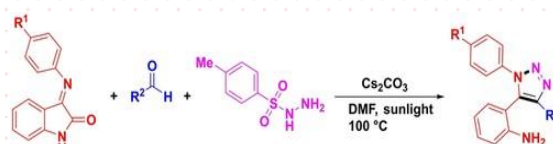
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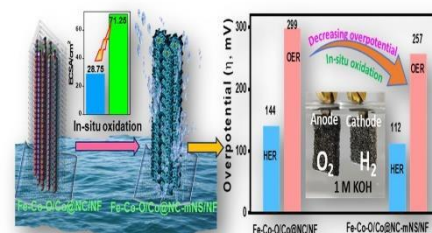
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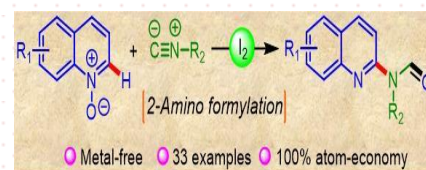


- One pot three component
- Transition metal free
- Azide free
- Broad substrate scope
- High regioselectivity

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Expert Lectures

- **Prof. K. Laxma Reddy** delivered an expert lecture on "Environmental Issues and Challenges" on 8-8-2021 by online: Organized by Social Welfare Govt Degree College for Women, Khammam.
- **Prof. K. Laxma Reddy** delivered an expert lecture on "Universal Human Values" through SCoPE Project to Degree College students and Faculty on 26-8-2021 by online
- **Prof. K. Laxma Reddy** delivered an expert Lecture on "Group Theory-Applications" on 2-9-2021 by online: Organized by Free Coaching Camp, Kakatiya Degree College, Hanamkonda.
- **Prof. K. Laxma Reddy** delivered an expert lecture on "Chemistry- in Our Daily Life" on 3-9-2021 through SCoPE project to students and teachers of Jangaon District by online
- **Prof. K. Laxma Reddy** delivered an expert lecture on "Science and Society" on 5--9-2021 by online. Organized by Navodaya Residential School, Mamaunur, Hanamkonda District
- **Prof. K. Laxma Reddy** delivered an expert lecture on "Ozone Layer-Depletion: Consequences and Remedies" on 16-9-2021 by online: Organized by JVV, Kazipet Mandal Committee
- **Prof. K. Laxma Reddy** delivered an expert lecture on "Environmental Issues and SCoPE project Activities" on 19-9-2021 at Vagdevi College, Hanamkonda: Organized by JVV, Hanamkonda District

- **Prof. K. Laxma Reddy** delivered an expert lecture on "Chemistry-A Inseparable Bond in Our Life" on 25-9-2021 through SCoPE project to students and teachers of ZPHS, Kamareddygudem and ZPHS, Dharmapuram, Jangaon District by online
 - **Prof. V. Rajeswar Rao** delivered a lecture on (28-9-21) Advanced Synthetic Methods in Organic Chemistry in the Faculty development Programme on "COMPUTATIONAL TECHNIQUES IN CHEMICAL ANALYSIS AND QUANTITATIVE BIOLOGY" during 20-09-2021 to 29-09-2021".Organised by E & ICT Academy, NIT Warangal in association with IQAC, Vaagdevi Degree & PG College, Hanumakonda, Telangana.
 - **Prof. V. Rajeswar Rao** delivered a lecture on (6-9-21) Synthesis of Organic molecules :Planning and Execution in the "One week short term course on modern methods in Organic synthesis and Analytical Techniques" during 30-9-21 to 6.9.21 .Organized by JNTU ,Hyderabad.
 - **Prof. V. Rajeswar Rao** delivered a lecture on(26-7-21) Recent Advances in MCRs Chemistry in the ICQR international webinar on Advances in Chemistry organized by Govt. Gajanand Agarwal P.G.College Bhatapara(C.G).
 - **Prof. V. Rajeswar Rao** delivered a lecture on MCRs as tools for Drug Discovery(18-3-21) in a two day International Conference Emerging Trends in Medicinal Chemistry (ETMC -2021) during 18to 19 March 2021 Organized by SVNIT, Surat.
 - **Prof. V. Rajeswar Rao** delivered a lecture on Organic Synthesis (28-1-21) in a two day National Conference on "Advances in Chemistry and Chemical Engineering (NCACACE-21) during 28-29-2021" organized by JNTUHyderabad.
 - **Prof. P. V. Srilakshmi** delivered an expert lecture in International Conference on "Current Trends in Advanced Chemistry" (CTAC-2021). Topic "Tocopherol Based Cationic Lipids for Non-viral Gene Delivery" on 21.09.2021 organized by the Department of Chemistry, Saranathan College of Engineering, Tiruchirappalli-620012,Tamil Nadu, India during September 20th to 21st 2021.
- Dr. S. Nagarajan** served as a resource person in the One week Online Faculty Development Programme on "Green Technology and Sustainable Engineering in Chemistry" and delivered a talk on "Green Technology in Chemical Synthesis" on 06.08.2021 organized by the Department of Chemistry, Adhiyamaan College of Engineering, Hosur, Tamil Nadu from 02.08.2021 to 06.08.2021.
- **Dr. Raghu Chitta** delivered an expert lecture on "Organometallic Chemistry of Transition Metals" at Kakaraparti Bhavanarayana College, Vijayawada on 04/09/2021.
 - **Dr. Vishnu Shanker** delivered a lecture on Nanomaterials: Synthesis and Applications in the Faculty Development Programme on "Computational Techniques in Chemical Analysis and Quantitative Biology" during 20-09-2021 TO 29-09-2021 Organised by E & ICT Academy, NIT Warangal in association with IQAC, Vaagdevi Degree & PG College, Hanumakonda, Telangana.
 - **Dr. K. Hari Prasad** delivered an expert lecture at the FDP on Advances in Synthetic Organic Chemistry and their Applications in Medicinal Chemistry during 23rd– 27th August 2021, organized by the Department of Chemistry, NIT Calicut.
 - **Dr. D. Kashinath** delivered an invited lecture on "Organic Chemist's perception to Modern Drug Discovery Process" in a Five Days Faculty Development Program on Advances in Synthetic Organic Chemistry and Their Applications in Modern Medicinal Chemistry conducted by the Department of Chemistry, NIT Calicut during 23rd– 27th August 2021
 - **Dr. D. Kashinath** delivered an invited lecture on "Modern Approaches for Improving Bioavailability of Drugs" in a National Seminar on Insoluble Drugs: Drug Delivery Challenges and Advances in Bioavailability Enhancement Techniques St. Peter's Institute of Pharmaceutical Sciences, Vidya Nagar, Hanamkonda (Dist), TS on August 17, 2021
 - **Dr. D. Kashinath** delivered an invited lecture on "Synthesis of 3-hydroxy-2-oxindole-pyridine and bis-indolyl-2-oxindoles via sp³ C-H functionalization, alkynylation and Friedel-Crafts reactions using Iron and Copper-based nanoparticles" in 4th National Conference in Chemistry (NConC-2021), Discipline of Chemistry, IIT Gandhinagar, 6-7 Aug 2021

- **Dr. D. Kashinath** delivered an invited lecture on "Organo Copper and Magnesium Reagents" in an outreach activity of the Department of Chemistry, Khalsa College, Mumbai University on 21st April 2021
- **Prof. K. V. Gobi** delivered an Invited Lecture on "Versatile Nanocomposite Materials for Biosensors and Fuel Cells" in the Faculty Development Programme on "Multifunctional Materials and their Applications (MFMA)" organized by the Department of Chemistry, Mepco Schlenk Engineering College, Virudhunagar, Tamilnadu from 20-24 Sept 2021.
- **Dr N. Venkatathri**, delivered an Invited Lecture on Development of Selected Multi-Valent Metal ions functionalized Mesoporous Materials and their Applications in a National Webinar organized by Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai, 02-07-2020.
- **Dr. Kashinath and Dr. B. Srinivas** have delivered Webinar talks from the aegis of SCoPE.
- **Dr. AMARJIT KUMAR**, Realization of microwave/Millimetre-wave/THz devices for 5G wireless communication technology, Electronics & ICT Academy, NIT Warangal Date- 08.08.2021, Time: 3 PM - 5PM
- **Dr. Kalpana Naidu**, Heterogeneous Networks (HetNets) Vignana's deemed University Guntur, 4th Sep 2021 in ICVSComs-2021 International conference
- **Dr. Md. Farukh Hashmi**, Invitation as Expert on Fundamentals of TV engineering and Composite Video Signals Department of ECE, GHRIET, Nagpur (M.H.) 18 and 25 September 2021
- **Dr. Md. Farukh Hashmi**, Computer Vision and Its Applications Department of CSE, R.V.R. & J.C. College of Engineering, Guntur (A.P.) 29 September 2021
- **Dr. Gande Arun Kumar**, Microstrip patch antenna design and reconfigurability using HFSS Two day workshop on Microwaves, antennas and electromagnetic fields at G. Pulla Reddy College of Engineering, Kurnool 07th August, 2021
- **Dr. Gande Arun Kumar**, Millimeterwave front-end and component design FDP on Recent Trends in Wireless Communication (E&ICT Academy) 13th Oct., 2021
- **Dr. Gande Arun Kumar**, Microwave front-end design for mobile handset FDP on 4G/5G Technologies (E&ICT Academy) 13th Sept., 2021
- **Prof. V.T. Somasekhar** delivered a webinar on 17th July 2021 on the topic "Open-End Winding Motor Drives for fault-tolerant EV applications" in one week AICTE sponsored online short term training program titled "Recent Advances in EV Technologies", organized by Matrusri Engineering College during 12th -17th July 2021, Osmania University, Hyderabad
- **Dr. Debasmita Panda** delivered two expert lectures on topics 'Electricity Market' and 'Transactive energy Market' to the PG students of Electrical Engineering Department, College of Engineering Pune during 16-17th September 2021.
- **Dr. G Siva Kumar** delivered a webinar on 24th September 2021 on the topic "Power quality improvement and reactive power control in RESs" in TWO WEEKS ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP) ON "Power Electronics Applications in Renewable Power Generation Systems" during 21-30, SEP 2021 by Indian Institute of Information Technology Design and Manufacturing Kancheepuram in association with E & ICT Academy, National Institute of Technology, Warangal.
- **Dr. Mahamad Nabab Alam**, delivered an expert lecture on "Optimization Techniques Using MATLAB" in one week (13-17 September 2021) AICTE sponsored an online Faculty Development Programme in "Advanced MATLAB for Scientific Computing", organized by Civil Engineering Section, University Polytechnique, Aligarh Muslim University, Aligarh-202002, India.
- **Prof. Sydulu Maheswarapu**, on 19-7-21 delivered an expert lecture titled "Fuzzy Logic Case Studies", 5 day FDP on "Meta-Heuristic Techniques for Engineering Applications", organised by E & ICT NITW and KITS Warangal
- **Prof. Sydulu Maheswarapu**, on 30-7-21 delivered an expert lecture titled "Best Practices Learned from Gurus and Parents", 5 day(27-31st July 2021) FDP on "Smart Grid Markets : Key Trends-Challenges and Opportunities", sponsored by E & ICT NITW and organized by EEE

- **Prof. Sydulu Maheswarapu**, on 9-9-21 delivered an expert lecture titled "Optimal Placement of Capacitors and DG Units" AICTE - QIP sponsored Short Term Course on "Computational Intelligent models for electrical engineering applications" from 06th to 10th September 2021, organised by Department of Electrical Engineering of NIT Arunachal Pradesh
- **Prof. Sydulu Maheswarapu**, on 11-9-21 delivered a guest lecture titled "ELECTRICITY AND MODERN SOCIETY" , organised by SCoPE project, NIT Warangal
- **Prof. Sydulu Maheswarapu**, on 15-9-21, Engineer's day, delivered a guest lecture titled "ENERGY AND POWER PROJECTS" , organised by SCoPE project, NIT Warangal
- **Dr. Vinay Kumar T**, delivered a guest lecture on 19th August 2021 titled "Advanced speed control schemes for Electric vehicle applications," in a Five-Day Online Faculty Development Programme (FDP) entitled "Challenges and Opportunities in Integration of Electric Vehicles with Smart Electric Grids" which is scheduled from 16th to 20th August 2021 under AICTE Training and Learning (ATAL) Academy, NIT Goa.=
- **Prof M Sailaja Kumari** delivered a lecture on 27th July 2021 on ' Basic Principles of Smart Grid Markets' in the FDP on "Smart Grid Markets: Key Trends, Challenges and Opportunities" during 27th-31st July 2021.
- **Prof Debashis Dutta** has delivered an invited talk(Online) on "Machine Learning -An introduction and its developments" in the National Webinar organized by KLEF-Vijayawada on Aug 27, 2021
- **Dr. Y. Sreenivasa Rao** has delivered a Webinar on "Mathematical Tools in Data Communication", organized by Dept. of Mathematics & Statistics, Ch.S.D. St. Theresa's College for Women (A), Eluru, Andhra Pradesh, on 24-07-2021.
- **Dr. R. S. Selvaraj** has delivered an Invited talk on "Post-Quantum: Code-based Cryptography" in the ATAL Academy Sponsored 5-Day FDP on "The Impact of Quantum Computing on Cryptography and Blockchain Technology" held at GITAM University, Hyderabad during 13-17 September 2021
- **Dr. R. S. Selvaraj** has delivered an Invited Talk on "Algebraic Codes for Reliable and Secure Communication" in the International e-conference on Recent Trends in Mathematical Sciences, held at Andhra Loyola College, Vijayawada during 28 July 2021
- **Prof J V Ramana Murthy** has delivered a Webinar on "Bharatiya Ganitham-oka dhrukpadham" in Telugu for DST-VP sponsored project Science Communication, Popularisation and Extension SCOPE at NITW on 21-09-2021 for High School and Junior College students.
- **Dr Srinivas Jangili** has delivered a Webinar on "Applications of Order Differential Equations in Real World Phenomena" to BSc students of St. Francis College for Women, Begumpet, Hyderabad on 28th August 2021.
- **Dr.K.Madhavi**, Delivered Expert talk on 'Extensive Reading Skills: Challenges in Inculcating Reading Habits Among the Students' in the Eight-day online Faculty Development Programme (FDP) on Reading: Back to the Basics conducted by English Language Teachers' Association of India (ELTAI), on 25 th Aug (from 23rd to 31st August 2021).
- **Dr.K.Madhavi**, Delivered Key note on 'English Language, Ethics and Learnability' in the Two-Day International Conference on 'English language, Ethics and Learnability (ICELEL-2021) organized by the department of BS&H/English at BV Raju Institute of Technology (30-31 July 2021)
- **Dr.K.Madhavi**, Delivered expert talk on "Areas of use - VR in Education: training to acquire certain skills", on 27th July, 2021 in a AICTE sponsored Short Term Training Program (STTP) under AQIS on "Augmented Reality and Virtual Reality organized by CSE Department, Maharaj Vijayarama Gajapathiraj College of Engineering, from 26th July 2021 to 31st July 2021 in online mode.
- **Dr.K.Madhavi**, Delivered Expert talk on 'Language and Vocabulary in Writing a Research Paper' in a One Week National Level Faculty Development Programme ` on Research Skills and the Saptha Yoga of Learning' on 20th July 2021, organized by the Dept of HSS, Sreyas Institute of Engineering & Technology, Bandlaguda, Nagole, from 19-24 July 2021.

- **Dr.K.Madhavi**, Delivered Expert talk on 'Technical Vocabulary and Language in Writing a Research Paper' on 7th July 2021, during the Online Short -Term Training Programme on 'Writing Quality Research Paper and Proposal' conducted by Applied Mathematics and Humanities Department, Sardar Vallabhbhai National Institute of Technology Surat organized from 6-10 July 2021.
- **Dr. R. Vennela**, Resource Person on the topic 'Processing Language Data for Qualitative Analysis' during the Online Refresher Course in English Language Studies (2nd-14th August 2021) organised by UGC Human Resource Development Centre, University of Hyderabad.
- **Dr. R. Vennela**, Resource Person on the topic 'Using software for qualitative analysis', during the Online Refresher Course in English Language Studies (2nd-14th August 2021) organised by UGC Human Resource Development Centre, University of Hyderabad.
- **Dr.P. Ravi Kumar** delivered a lecture on "Health,Wellness & Personal Fitness" in the "International Webinar on Fitness a Way of Life" organised by the Directorate of Physical Education and Sports Science,S.K.University,Anantapur during National Sports Day 2021 Celebrations(29th August 2021)
- "Porous Flow Analysis using Fluid Dynamic Simulators" by **Dr. Raghu Raja Pandiyan Kuppusamy**. ATAL academy sponsored online FDP on "Fluid Flow Analysis using ASPEN HYSYS and ASPEN PLUS for Chemical Engineers", 16-09-2021, Department of Chemical Engineering, VelTech HighTech, Avadi, Chennai, Tamil Nadu
- "Resin Cure Analysis for Composite Manufacturing" by **Dr. Raghu Raja Pandiyan Kuppusamy**. Online FDP on "Emerging Trends in Advanced Production and Industrial Engineering", 23-07-2021, Department of Mechanical Engineering, Federal Institute of Science and Technology, Angamaly, Kerala
- "Process Modelling, Simulation & Optimization in Industrial Amine Production" by **Dr. Raghu Raja Pandiyan Kuppusamy**. Online FDP on "Novel Applications of Chemical Engineering", 19-07-2021, Department of Chemical Engineering, MVGR College of Engineering, Vizianagaram, Andhra Pradesh.
- "Creation of Quiz in Moodle and Delivering online course using Google Classroom" by **Dr. Naresh Thota**. Acted as a resource person in online short-term course on MOOCS, Online Courses & Open educational Resources, 19 - 26, July 2021 conducted by UGC - HRDC, Osmania University, Hyderabad.
- "Chemical Looping Combustion based Coal-Fired Power Plants for Sustainable Thermal power production : 4-E Analyses" by **Dr. Venkata Suresh Patnaikuni** in an online Faculty Development Program on "Exergy and ThermoEconomic Investigation in Power Generation Systems (ETEIPGS - 21)" conducted by Kingston Engineering College, Vellore on 13-08-2021.
- "Flow Field Designs for PEM Fuel Cells" by **Dr. Venkata Suresh Patnaikuni** in an International Online Workshop On 'Advances in Energy Technologies for Renewable-powered Future' Under SPARC Project, 23rd -24th September, 2021, NIT Warangal.
- **Dr. Soumya Lipsa Rath** delivered a lecture on "Molecular Docking-Hands on Session on Protein-Protein and Protein-Ligand Docking" in an Online FDP on Computational Techniques In Chemical Analysis And Quantitative Biology Organised by E&ICT Academy, NIT Warangal In association with IQAC, Vaagdevi Degree & PG College, Hanumakonda (Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI) on 25.09.2021.
- **Dr. Thyageshwar Chandran** delivered a lecture on "Molecular Visualization tools and Cryo-EM" in an Online FDP on Computational Techniques In Chemical Analysis And Quantitative Biology Organised by E&ICT Academy, NIT Warangal In association with IQAC, Vaagdevi Degree & PG College, Hanumakonda (Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI) on 27.09.2021.
- **Dr. Thyageshwar Chandran** delivered a lecture on "Molecular dynamics simulation of biomolecules" in an Online FDP Recent Trends in Biomedical and Biomechanical Engineering: An Interdisciplinary approach Organised by CCE, NIT Warangal In association with Departments of Biotechnology, Electrical and Mechanical Engg. NIT-W on 14.09.2021.

- **Dr. Thyageshwar Chandran** delivered lectures and hands-on sessions on "Creating online video/audio content for e-learning" as part of Online Short Term Course on MOOCS, Online Courses & Open Educational Resources conducted at UGC-HRDC, Osmania University, Hyderabad (Sponsored by UGC, GOI) on 23.07.2021.
- **Dr. Thyageshwar Chandran** delivered lectures and hands-on sessions on "Google Apps for e-learning" as part of Online Short Term Course on MOOCS, Online Courses & Open Educational Resources conducted at UGC-HRDC, Osmania University, Hyderabad (Sponsored by UGC, GOI) on 26.07.2021.
- **Dr. Thyageshwar Chandran** delivered lectures and hands-on sessions on "How to make an asynchronous video, compress and upload the same" as part of a workshop "Effective online teaching and conducting examinations with Moodle LMS" for the faculty members of NIT Silchar on 07.04.2021.
- **Dr.T.P.Tezeswi**, "Safety Considerations in Civil Engineering Projects", Telangana Academy for Skill and Knowledge (TASK), June 12, 2021.
- **Prof. N V Umamahesh**, "Simulation Modelling", ATAL FDP on Engineering Optimization and Applications, held at College of Engineering, Aurangabad on 15.06.2021
- **Prof. N. V. Umamahesh**, "Sustainable Urban Water Management under Changing Climate", Telangana Academy for Skill and Knowledge (TASK), June 2021
- **Prof. N V Umamahesh**, "Concepts of ANN and their applications", ESCI Training Program on Water Resources Development using Artificial Neural Networks, July, 2021
- **Prof. N V Umamahesh**, "Fuzzy Logic and Fuzzy Systems", AICTE Sponsored STTP on Applications of Neuro-Fuzzy Systems in Civil Engineering, MVSREC, Hyderabad, 04.08.2021
- **Prof. N. V. Umamahesh**, "Impacts of Climate Change on Urban Floods", talk delivered at one day webinar on Impacts of Climate Variability on Sustainable Water Resources Planning and Management organized jointly by IIT, Tirupati and SV University, Tirupati, 28.07.2021
- **Prof. N. V. Umamahesh**, "Sustainable Urban Water Management under Changing Climate", ATAL FDP on Environment and Sustainability: Need of the Day, Sri Vidyaniketan College of Engineering, Tirupati, 16.09.2021
- **Prof. N.V. Umamahesh**, "Urban Floods: Issues and Challenges", talk delivered in three day training program on Urban Planning and Management organized by APHRDI, 20.09.2021
- **Prof. C.B.Kameswara Rao, Dr.T.P.Tezeswi**, Poster presentation and Booth at Force Protection 2021 National Virtual Expo, May 22-24, 2021
- **Dr. R. Ramesh Nayaka**, "Sustainable Construction Materials for Low Cost Housing", delivered a talk in Three Day Online Training Programme on Cost Effective and Eco Friendly Building Materials and Technologies organised by Andhra Pradesh Human Resource Development Institute (Govt. of Andhra Pradesh), July 22-24, 2021.
- **Dr. M. Shashi**, "Advanced Surveying: Photogrammetry, GPS (Civil Engg.)", Online webinar on Next Gen Defence Technologies-2021 organized by University School of Information and Communication Technology and University School of Engineering, Gautam Buddha University, Greater Noida, U.P., August 19-20, 2021.
- **Dr. S.Shankar**, delivered a Talk on "Low Volume Roads- Challenges and Issues" during two days' workshop Organized by Tamil Nadu State Rural Road Agency (TNSRRDA) as part of 75th year of Azad ka Amrut ka Mahotsav, Ministry of Rural Development, National Rural Road Infrastructure Development Agency (NRIDA) " during September 17and 18,2021, Tamil Nadu.

- **Dr.S.Shankar**, delivered a Talk on “Marginal Martials for Rural Road Construction” during two days’ workshop Organized by Tamil Nadu State Rural Road Agency (TNSRRDA) as part of 75th year of Azad ka Amrut ka Mahotsav, Ministry of Rural Development, National Rural Road Infrastructure Development Agency (NRIDA)” during September 17and 18,2021, Tamil Nadu



Conference Presentations

- **Dr. R. Vennela**, presented a paper at HoLLT.net Online Colloquium September 17th, 2021 “Women in the History of Language Learning and Teaching”, organized by Universität Bremen and University of Reading, on the topic “Women Teachers and Teachers for Women: a Review of Zenana and Mission Instruction in 19th Century India”.

Workshops Organised

- International Online Workshop On ‘Advances in Energy Technologies for Renewable-powered Future’ Under SPARC Project, 23rd -24th September, 2021, Coordinators: **Dr. Murali Mohan Seepana and Dr. K.S. Rajmohan**
- **Dr. Thyageshwar Chandran**, Department of biotechnology along with **Dr. Palash Mishra** (Department of Electrical) **Dr. Shivraman** (Dept. of Mechanical Engineering) in collaboration with CCE, NIT-W organized a 5-day interdisciplinary virtual FDP on “Recent Trends in Biomedical and Biomechanical Engineering: An Interdisciplinary approach” from 10th September to 14th September 2021.
- **Dr. Debasmita Panda**, Asst. Professor, EED, Dr. Altaf Badar, Asst. Professor, EED, Dr. Y. Chandrasekhar, Asst. Professor, EED Prof. M. Sailaja Kumari, Professor, EED of Department of Electrical Engineering, in association with Center for Continuing Education (CCE), NIT Warangal had organized FDP on “Smart Grid Markets: Key Trends, Challenges and Opportunities” during 27th-31st July 2021.
- **Dr Vinay Kumar T**, Organized one day online training programme for research scholars on “Advanced Electrical Drive Controls and Implementation” organized by the Department of Electrical Engineering, National Institute of Technology Warangal and Sponsored by Science and Engineering Research Board (SERB), Government of India on 09th July, 2021.

Electronics & ICT Academy:

- Deep Learning Algorithms Implementation in Cloud Technology - Online Mode **Dr. M. Srinivas**, Dept. of CSE, NIT Warangal & Dr. G. Jose Moses, Dept. of CSE, Malla Reddy Engineering College (A), Medchal 1st July, 2021 10th July, 2021
- Deep Learning – Foundations and Applications - Online Mode **Prof. R. B. V. Subramaanyam**, Dept. of CSE, NIT Warangal & Dr. Bharadwaja Kumar G, Dept. of CSE, Vellore Institute of Technology, Chennai 5th July, 2021 14th July, 2021
- Artificial Intelligence Applications in Software Engineering - Online Mode **Dr. S. Ravi Chandra**, Dept. of CSE, NIT Warangal & **Dr. Manjubala Bisi**, Dept. of CSE, NIT Warangal, 6th July, 2021- 14th July, 2021
- Data Science and Machine Learning - Online Mode **Prof. R. B. V. Subramaanyam**, Dept. of CSE, NIT Warangal & N MD Jubair Basha, Dept. of CSE, Kallam Haranadha Reddy Institute of Technology, Guntur, 12th July, 2021 - 20th July, 2021

- Machine Learning Tools for IoT Applications - Online Mode **Dr. M. Srinivas**, Dept. of CSE, NIT Warangal & Dr. G. Sucharitha , Dept. of CSE, Institute of Aeronautical Engineering , Hyderabad 12th July, 2021- 22nd July, 2021
- Block chain and IoT - Online Mode **Dr. R. Padmavathy**, Dept. of CSE, NIT Warangal & Dr. T. Adilakshmi, Dept. of CSE, Vasavi College of Engineering (A), Hyderabad 12th July, 2021- 22nd July, 2021
- Metaheuristics Techniques for Engineering Applications - Online Mode **Dr. Manjubala Bisi**, Dept. of CSE, NIT Warangal & S. Nagaraju , Dept. of CSE, Kakatiya Institute of Technology and Science, Warangal 16th July, 2021 23rd July, 2021
- Blockchain Technologies - Online Mode **Dr. R. Padmavathy**, Dept. of CSE, NIT Warangal & Dr. Kalavathi. A, Dept. of IT, Vasireddy Venkatadri Institute of Technology, Guntur 19th July, 2021 29th July, 2021
- Python Programming - Online Mode **Prof. R. B. V. Subramaanyam**, Dept. of CSE, NIT Warangal 26th July, 2021 6th August, 2021
- Deep Learning with AI Applications - Online Mode **Dr. M. Srinivas**, Dept. of CSE, NIT Warangal & Dr. Puja. S. Prasad, Dept. of CSE, Geethanjali College of Engineering and Technology, Hyderabad 2nd August, 2021 9th August, 2021
- Data Science and It's Applications with Python - Online Mode **Dr. M. Srinivas**, Dept. of CSE, NIT Warangal & Dr. D. Kishore Babu, Dept. of CSE, Bapatla Engineering College (A), Bapatla 9th August, 2021 19th August, 2021
- Research Challenges, Issues and Trends in Soft Computing and Machine Learning - Online Mode **Dr. Cheruku Ramalingaswamy**, Dept. of CSE, NIT Warangal & Dr. N. Satyanarayana, Dept. of CSE, CVR College of Engineering, Ibrahimpatan 9th August, 2021 18th August, 2021
- Cognitive Intelligence: Foundations & Applications - Online Mode **Prof. R. B. V. Subramaanyam**, Dept. of CSE, NIT Warangal & Dr. R. Jagadeesh Kannan, School of Computer Science & Engineering, Vellore Institute of Technology Chennai Campus 16th August, 2021 26th August, 2021
- Convergence of Artificial Intelligence, Machine Learning and Data Science for Engineering Applications - Online Mode **Dr. Sanjaya Kumar Panda**, Dept. of CSE, NIT Warangal & Dr. Brojo Kishore Mishra, Dept. of CSE, GIET University, Gunupur, Odisha 16th August, 2021 27th August, 2021
- Contemporary Cryptographic Solutions for IoT based Applications - Online Mode **Dr. R. Padmavathy**, Dept. of CSE, NIT Warangal & Dr. N. Sasikaladevi, Dept. of CSE/SoC, SASTRA Deemed University, Thanjavur 20th August, 2021 - 30th August, 2021
- Artificial Intelligence and Machine Learning - Online Mode, **Dr. M. Srinivas**, Dept. of CSE, NIT Warangal & Pragati Sawant, Dept. of CSIT, Rajarambapu Institute of Technology, Sakharale, Maharashtra 21st August, 2021- 30th August, 2021
- Machine Learning and Data Science for Engineering Applications - Online Mode **Dr. Ilaiah Kavati**, Dept. of CSE, NIT Warangal & Dr B. Madhuravani, Dept. of CSE, MLR Institute of Technology, Hyderabad 23rd August, 2021- 2nd September, 2021
- Deep Learning & Applications (Parallel Architectures) - Online Mode Prof. R. B. V. Subramaanyam, Dept. of CSE, NIT Warangal 23rd August, 2021- 3rd September, 2021
- Deep Learning and AI Applications - Online Mode, **Dr. M. Srinivas**, Dept. of CSE, NIT Warangal & Dr. N. Kalyani, Dept. of CSE, G. Narayanamma Institute of Technology and Science (for Women), Shaikpet, Hyderabad 28th August, 2021- 7th September, 2021
- Machine learning for Data science using Python - Online Mode **Dr. M. Sandhya**, Dept. of CSE, NIT Warangal & Dr. K. S. Balamurugan, Dept. of ECE, Sasi Institute of Technology & Engineering, Tadepalligudem, 1st September, 2021 - 10th September, 2021
- Emerging Technologies: AI, Big Data and Block Chain - Online Mode **Dr. Cheruku Ramalingaswamy**, Dept. of CSE, NIT Warangal & Dr. Shaik Nagul, Dept. of CSE, Lendi Institute of

Technology, Vizianagaram 16th September, 2021 25th September, 2021

- Data Science Using AI and Soft Computing Techniques - Online Mode **Dr. Sujit Das**, Dept. of CSE, NIT Warangal & Dr. Shakeela Sathish, Dept. of Mathematics, SRM Institute of Science and Technology, Ramapuram, Chennai 18th September, 2021 27th September, 2021
- Cyber Crimes and Cyber Security - Online Mode **Dr. E. Suresh Babu**, Dept. of CSE, NIT Warangal & Dr. Bonthu Kotaiah, Dept. of CS & IT, Maulana Azad National Urdu University(MANUU), Hyderabad 20th September, 2021 1st October, 2021
- Artificial Intelligence and Machine Learning - Online Mode **Dr. Sanjaya Kumar Panda**, Dept. of CSE, NIT Warangal & Dr. Naveena. C, Dept. of CSE, SJB Institute of Technology, Bengaluru 27th September, 2021 9th October, 2021

Centre for Continuing Education:

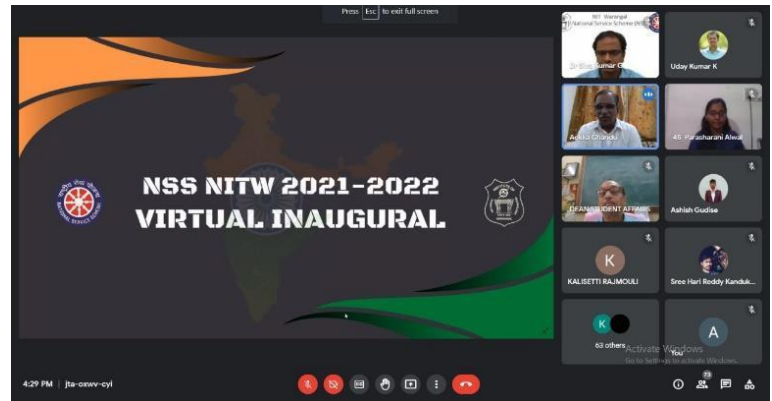
- Python for Machine learning 5 - 9 July, 2021 **Dr.M.Sandhya Dr. K. BalaPrakas Rao**,CSE
- Artificial Intelligence & Machine Learning 5 - 9 July, 2021 **Dr. Raju Bhukya** CSE
- Python for Scientific Computing 12 - 16 July, 2021 **Dr.Balaprakasa Rao Killi Dr. Venkateswara Rao Kagita** CSE
- Python for Machine learning 12 - 16 July, 2021 **Dr. M. Sandhya Dr. Y. Sreenivasa Rao** CSE, Mathematics
- Artificial Intelligence Machine Learning using Python 12 - 16 July, 2021 **Dr. Raju Bhukya** CSE
- Software Testing Tools 19 - 23 July, 2021 **Dr. Sangharatna Godbole** CSE
- Python for Machine learning 19 - 23 July, 2021 **Dr. M. Sandhya Dr. Y. Sreenivasa Rao** CSE,Mathematics
- Machine Learning for Data Science using Python 19 - 28 July, 2021 **Dr. Venkateswara Rao Kagita Dr.Balaprakasa Rao Killi** CSE
- Next Generation Systems – Machine learning & Deep Learning Applications 26 - 30 July, 2021 Dr. D. A. Vidhate **Dr. Raju Bhukya** Information Technology Dr. Vithalrao Vikhe Patil College of Engineering, Ahmednagar, Maharashtra and CSE, NITW
- Soft Computing Techniques for Emerging Applications 26 - 30 July, 2021 **Dr. Manjubala Bisi Dr. Sanjaya Kumar Panda** CSE
- Artificial Intelligence & Machine Learning 26 - 30 July, 2021 **Dr. Raju Bhukya** ,CSE
- Python for Machine learning 26 - 30 July, 2021 **Dr.M.Sandhya Dr.Y.Sreenivasa Rao** CSE,Mathematics
- Cloud and Fog Computing Platforms for IoT Applications 2 - 6 August, 2021 **Dr. Rashmi Ranjan Rout Dr. Sanjaya Kumar Panda** CSE
- Python for Machine learning 2 – 6 August, 2021 **Dr.M.Sandhya Dr. K. Venkateswara Rao** CSE
- Recent trends in Biomechanics and Bioelectrical Engineering: An Inter-disciplinary Approach 2 - 6 August, 2021 **Dr. Palash Mishra Dr. Thyageshwar Chandran Dr. Shivraman** Electrical, Biotechnology, Mechanical
- Python for Machine learning 9 - 13 August,2021 **Dr. M. Sandhya Dr. K. Venkateswara Rao Dr. Balaprakasa Rao Killi** CSE
- Python for Machine learning 16 - 20 August,2021 **Dr. M. Sandhya Dr. K. Venkateswara Rao Dr. Balaprakasa Rao Killi** CSE
- Python for Artificial Intelligence and Machine Learning Applications 16 - 20 August,2021 **Dr. Raju Bhukya** CSE

- Next Generation Computing Artificial Intelligence and Machine Learning Using Python 6 - 10 September, 2021 45 **Dr. Raju Bhukya** CSE
- Python for Artificial Intelligence and Machine Learning 6 - 10 September, 2021 **Dr. Raju Bhukya** CSE
- Artificial Intelligence Machine Learning & Deep Learning 6 - 15 September, 2021. **Dr. Raju Bhukya** CSE
- Python Programming for Artificial Intelligence Applications 20 - 24 September, 2021 **Dr. Raju Bhukya** CSE
- Big Data Analytics with Multi-Criteria Decision Making Methods 24 - 28 September, 2021 Dr. Mohuya Byabartta Kar (HIT-K) **Dr. Sujit Das** (NITW) Heritage Institute of Technology Kolkata (HIT-K) & NITW

National Service Scheme

INAUGURATION

National Service Scheme (NSS) NITW 2021-22 has started its fabulous journey with our very first event, Virtual Inauguration on 1st October 2021. This inspiring ceremony has been marked as the perfect beginning for the NSS team.



- The presence of our Prof. N.V. Ramana Rao, Chief Guest, Director, NIT Warangal has inspired our students and NSS members to strive hard and work too hard to serve the society.
- The Guests of Honor, Secretary of Seva Bharathi, Shri. A. Chandra Shekar, Dean Student Welfare of NIT Warangal - Prof. J.V. Ramana Murthy and faculty advisors of NSS - Dr. Siva Kumar and Dr. Uday Kumar have uplifted the service spirit of students in present virtual conditions.
- The lecture on the topic of "Students, Service and Nation Building" by Shri. A Chandra Shekar has given a great motivation and created interest to serve the people and the developing society.

NON-VIOLENCE WEEK

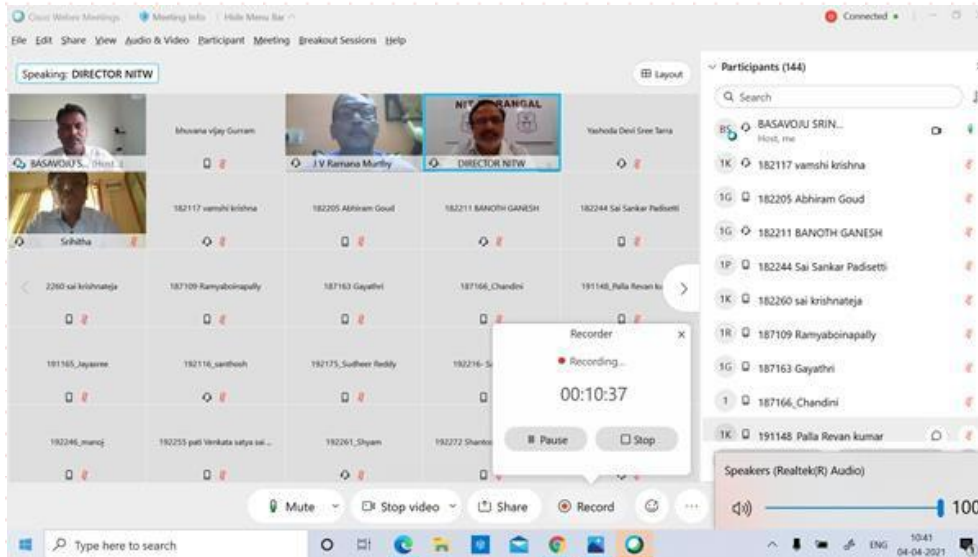
On the occasion of Gandhi Jayanti, NSS NITW celebrated "Non-Violence Week" by conducting different competitions. In five different competitions (singing competition, drawing competition, elocution competition, slogan making competition, and letter writing competition), around 70 entries combining all competitions have come. These events are blessed with many great performances and different perspectives and perceptions of participants. NSS NITW announced 2 winners for each competition. The winners received their respective certificates and INR 2000/- worth Verzeo coupons as appreciation.

Winners:

Singing competition: Nikunj Verma;
Ch. Vaishnavi
Elocution competition: G. Sravya;
Aishwarya Vipin
Letter writing competition: Aviral
Tripathi; Meghana
Slogan making competition: M.
Asritha; B. Krishnaveni
Drawing competition: D. Divya Sree;
Srijit Paul



- Organized a lecture on "Universal Human Values" by **Prof. K. Laxma Reddy** on 04.04.2021 for the benefit of the NSS volunteers and all the NITW students. Prof. N. V. Ramana Rao, Director, NIT Warangal and Prof. J. V. Ramana Murthy, Dean, Student Welfare have addressed the students during the event. More number of NSS volunteers and students have actively participated in the event and made it successful



Student Awards and Achievements

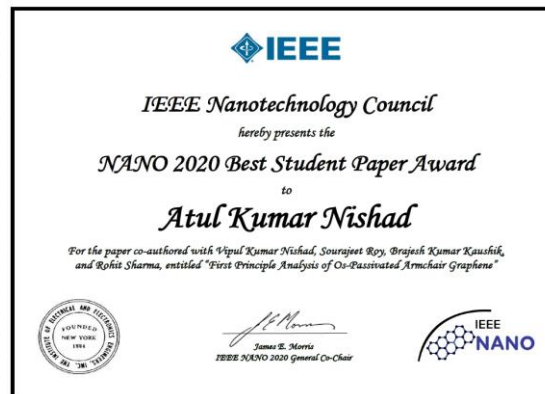
- Phd student Nikhil M Thoppil** under the supervisor of **Dr. V Vasu**, received Outstanding Student Academic Award for this PhD Thesis in The First Indian International Conference on Industrial Engineering and Operations Management"(IEOM India 2021)"Bengaluru , Karnataka, India August 16 - 18, 2021 - A Virtual Conference



- **M. Tech (CIM) student A V Sai Kumar Reddy** under the supervisor of **Dr. V Vasu**, received Outstanding Student Academic Award for his M.Tech Dissertation in The First Indian International Conference on Industrial Engineering and Operations Management”(IEOM India 2021)“Bengaluru , Karnataka, India August 16 - 18, 2021 - A Virtual Conference




- **Dr. Atul Kumar Nishad** received best paper award for the paper titled “First Principle Analysis of Os-passivated Armchair Graphene Nanoribbons for Nanoscale Interconnects” published in a very reputed conference named “20th IEEE International Conference on Nanotechnology (IEEE-NANO)” , Montreal, QC, Canada.



- Three III B. Tech (UG) students from the Department of MME have joined IIT D for early PhD program
- Ms. Ridhi M.Sc. Chemistry (Organic Chemistry specialization) student of current passed out batch (2019-2021) has been selected for a PhD programme abroad
- Ms. Shravani Mangu(B.Tech 2017-21) won the best presentation award during the International Chemical Engineering Conference 2021 - 100 Glorious Years of Chemical Engineering & Technology, organized by Department of Chemical Engineering , Dr B R Ambedkar National Institute of Technology, Jalandhar during September 16 to 19, 2021 for presenting “Evaluation of the Physio-Chemical Properties of LaCeO3 Perovskite for the Catalytic Performance” by Shravani Mangu, Vanessa Soares, Abhishek Gupta , Anjana P Anantharaman.

Electrical Engineering Association (AY 2020-2021) events:


**NATIONAL INSTITUTE OF TECHNOLOGY
WARANGAL**
 DEPARTMENT OF ELECTRICAL ENGINEERING

INVITATION

YOU ARE CORDIALLY INVITED TO THE
Virtual Inaugural
 OF
ELECTRICAL ENGINEERING ASSOCIATION FOR AY 2021-22

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

Guests of Honour
Dr. M. Mohana Rao
 Additional General Manager, BHEL

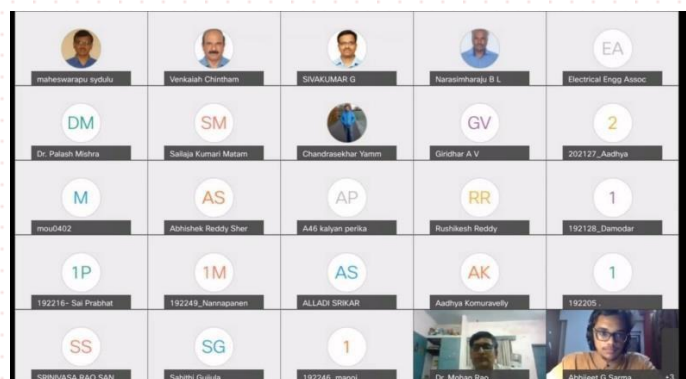
Prof. J.V.Ramana Murthy
 Dean Student Welfare, NIT Warangal

Prof. M. Sailaja Kumari
 Head, Department of Electrical Engineering
 will preside over the function

20th September (Monday), 4 PM
Industry Expert Lecture on
Gas Insulated Substation
 by
Dr. M. Mohana Rao, BHEL
At 4:30 PM

VIRTUAL INAUGURATION

- EEA 2021-22 has started its gracious journey with our very first event- Virtual Inauguration on 20th September 2021. The awe-inspiring number of students attended which are more than 200 has marked as the perfect beginning for the association.
- The presence of our Chief Guest Director of NIT Warangal Prof. N. V. Ramana Rao has inspired our students and association members to strive hard and work for the welfare of the students and our department.
- The Guests of Honour, Additional General Manager BHEL- Dr. M. Mohana Rao, Dean Student Welfare of NIT Warangal Prof. J. V. Ramana Murthy and Head of the Department of Electrical Engineering Prof. M. Sailaja Kumari have uplifted the spirit of students in present virtual conditions and paved a path for the students guiding them the right way to follow in their career and also their lives. The Industry Expert Lecture by Dr. M. Mohana Rao, BHEL on Gas Insulated Substation has given a great insight on the industry experience practically for everyone.



INTERN TALK

The main cause of concern for Second Year students is confusion regarding preparation for their upcoming internship drive at the end of the year. To help all second-year students, Electrical Engineering third year students who cracked internship phenomenally came together to guide the juniors with an event called Intern Talk on 23rd September 2021 5:00pm. The noteworthy interaction with juniors has helped not only EEE students but also every other branch's internship aspirants.



Senior Interns with all profiles came together to guide with their own experiences, questions asked during their interviews and also the way they prepared for the internship followed by answering the students' doubts at the end of their session.

CORE INTERN – Abhijeet (ITC), Meghana (Bajaj)

HARDWARE INTERN- Pratik Kau I(Texas Instruments), Rohit Chanati (Qualcomm)

SOFTWARE INTERN- Parth Chaudhary (Oracle), Rajat Sharama(Amazon)

The event has marked its colossal success with the attendance of more than 200 students and interacted with the seniors for more than two hours.

KNOW YOUR FACULTY

- 24th September marks the birth anniversary of the Father of Electricity Michael Faraday. On the auspicious occasion, EEA conducted 'KNOW YOUR FACULTY' event inviting veteran in Electrical Engineering Department Prof. Sydulu Maheshwarapu, on 24th September 2021. The virtual session motive was to let the professor and speakertalk their heart out with students getting together with them increasing the bond among them.
- The event was blessed with the speaker sharing their experiences, hurdles in their life and also some anecdotes in their college life which changed their life and career. Students were drawn close to sir's talk and the interaction of them with the speaker is the proof for the triumph of the session.



Prof. Sydulu M

i can

▶ The main difference between **will** power and **ill** power is **W: work culture.**

ఐరుగాలో పాడుప

హాపిన్యెస్ = $\frac{\text{Number of desires fulfilled}}{\text{Total number of desires}}$

పట్టుకుంటే రిఫుల్ చేస్తున్నారు లేకపోతే చేస్తుంటారు



On the occasion of Michael Faraday's birth anniversary




EEA
PRESENTS

KNOW YOUR FACULTY

with
Prof. Sydulu Maheshwarapu

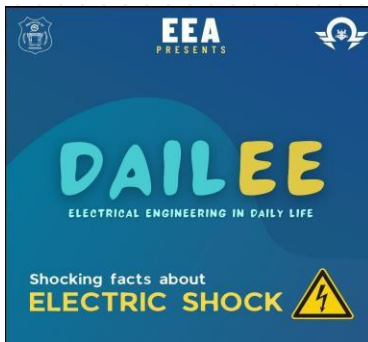
“ The influence of teachers extend beyond the classroom, well into the future. **”**

24th September, 2021 | 5:30 PM



FLASH

- Flash is a biweekly newsletter that contains instructional and educational information about trending and upcoming events in the tech-world and engineering marvels that can affect the World.
- The newsletter has been successful and inspiring the students by providing the facts and source of curiosity. It is being released on alternative Tuesdays starting from 22nd September 2021.



DAILEE

- Another Bi weekly magazine from EEA, focuses and publishes facts and science about the tech we use every day, providing intriguing information that can be educational and fun-to-know simultaneously. It is being released on alternative Tuesdays. First post was posted on 29th September 2021.
- The sleek design of the magazine and the sharp curious content has been gaining great audience and traction in our social media handles and WhatsApp groups of all branches.

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.
- Every weekend two companies each with different profiles from core, software, hardware is being covered, a little bit of knowledge before the experience always comes in handy. It is released every Thursday. The extensive information about the placement drive is helping juniors to prepare for their interviews with care.
- First week's post on 23rd September 2021: Bharath(GE Healthcare) – Core, Avikshith Irukulla (Oracle)- Software
- Second week's post on 1st October 2021: Harsha Vardhan Nune (Qualcomm), Amit Jakhar (Amazon)



Chemistry Association Activities

Faculty advisor: Dr. M. Ragasudha

- Chemistry Association was inaugurated on 18th September 2021 with Prof. Venkatram R Mereddy as the Chief Guest and Prof. NV Ramana Rao, Director, NIT Warangal and Prof. JV Ramanamurthy, Dean, SW as the Guests of Honor. Office Bearers of chemistry department have been elected with Dr. Ms. M. Ragasudha as the Faculty Advisor. Prof. Venkatram Mereddy, Professor, Department of Pharmacy Practice and Pharmaceutical Sciences, University of Minnesota, USA delivered a lecture on "Musings of an organic chemist's foray into biology in search of simple therapeutics for complex diseases" during the inaugural of the Chemistry Association.
- Career guidance by Alumni of the department to pursue Ph.D. in abroad on 19th September 2021
- Invited talk by Prof. A. Ramachandraiah, Professor of Chemistry (HAG) Retired entitled "MICHAEL FARADAY -A Scientist to be inspired by..." on 24th September 2021.

Tree Plantation Programme

On the occasion of the birth anniversary of the Father of the Nation Mahatma Gandhi, a Plantation program is arranged on 2nd October (Saturday) from 0900 hrs. Plantation will be done near Dispensary, Ganga, Godavari Hostel Premises.



ENGINEERS' DAY CELEBRATIONS

In commemoration of the Birth Anniversary of Bharat Ratna Sir Mokshagundam Visvesvaraya Jointly Organized by *Vijnana Vani* (SCoPE-Telugu), NIT Warangal and Vigyan Prasar-DST, Got of India, New Delhi Venue: Seminar Hall, Teaching Learning Centre, NIT Warangal

Inaugural Function

A National Symposium on the Engineers' Day was organized in a hybrid mode (online and physical). As many as 50 members including Prof. N.V. Ramana Rao, Director, NIT Warangal, Dr. Nakul Parashar, Director, Vigyan Prasar, New Delhi, Dr. Tata N. Rao, Director, ARCI, Hyderabad, Dr. T. V. Venkateswaran, Scientist-F, Vigyan Prasar, New Delhi, Sri K. Sharma, Coordinator, SCoPE-Kannada, Mysore, Members of the SCoPE-Telugu Core Committee, Science Activists, Coordinator, SCoPE-Kannada, Heads of the Departments, Deans, Registrar of NIT Warangal were present physically. In online, about 150 members have registered and attended through Zoom and YouTube links.

Inaugural Function with Prof. N. V. Ramana Rao, Director, NIT Warangal as the Chief Guest, Dr. Nakul Parashar, Director, Vigyan Prasar, Dr. Tata N. Rao, Director, ARCI, Hyderabad and Dr T. V. Venkateswaran, Scientist-F, Vigyan Prasar as Guests of Honour while Prof. K. Laxma Reddy, Principal Investigator, SCoPE-Telugu, having Presided-Over the Function. Prof. A. Ramachandraiah, Coordinator and Dr. Ms. Raghasudha, Member, SCoPE-Telugu have steered the Proceedings. Prof K. Laxma Reddy has presented the biography of Bharat Ratna Sir Mokshagundam Visvesvaraya Prof. A. Ramachandraiah, has introduced the activities of the SCoPE-Telugu. Dr. T. V. Venkateswaran, has explained about the activities of the Vigyan Prasar. Dr. Tata N Rao, greeted the SCoPE the best and stressed on the relevance of SCoPE. Dr. Nakul Parashar greeted the SCoPE-Telugu and elaborated various proposed activities under Vigyan Prasar, in general and under SCoPE Project, in particular and solicited the active involvement of all the stakeholders and the participants of the Symposium. Prof. N. V. Ramana Rao explained the relevance of SCoPE Project in view of the National Education Policy (NEP-2020) and congratulated the organizers on celebrating the 'Engineers' Day' in the befitting manner. Dr. D. Kashinath, Member, RAA and SCoPE-Telugu, has proposed a Vote of Thanks



ఇంజనీర్స్ డేలో మాట్లాడుతున్న నిట్ డైరెక్టర్ ఎన్వీ రమణారావు

మోక్షగుండం విశ్వేశ్వరయ్య సేవలు మరువలేనివి నిట్ డైరెక్టర్ డాక్టర్ ఎన్వీ రమణారావు

కాజీపేట, సెప్టెంబర్ 15 : ఇంజనీర్స్ సేవలు సమాజానికి అవసరమని నిట్ డైరెక్టర్ డాక్టర్ ఎన్వీ రమణారావు అన్నారు. మోక్షగుండం విశ్వేశ్వరయ్య జయంతిని పురస్కరించుకుని నిట్లో బుధవారం ఇంజనీర్స్ డే నిర్వహించారు. ఈ సందర్భంగా ఆయన మాట్లాడుతూ మోక్షగుండం విశ్వేశ్వరయ్య దేశానికి చేసిన సేవలు మరువలేనివని కొనియాడారు. స్థానిక భాషల ద్వారా సైన్స్ ప్రాధాన్యతను అందరికీ చేర్చడమే లక్ష్యంగా విజ్ఞాన్ ప్రసార విభాగం పనిచేస్తుందన్నారు. కార్యక్రమంలో విజ్ఞాన ప్రసార స్కాప్ ప్రాజెక్టు ప్రిన్సిపాల్ ప్రొఫెసర్ కె.లక్ష్మారెడ్డి, డైరెక్టర్ డాక్టర్ నకుల్ పరాశర్, రిజిస్ట్రార్ గోపర్లనూవు, శాస్త్రవేత డాక్టర్ వెంకటేశ్వరన్, కోఆర్డినేటర్ రామచంద్రయ్య, సీసీఎంబీ మాజీ డైరెక్టర్ సీహెచ్ మోహన్ రావు పాల్గొన్నారు.

ఘనంగా ఇంజనీర్స్ దినోత్సవం

నిట్ క్యాంపస్, న్యూస్ టుడే: మోక్షగుండం విశ్వేశ్వరయ్య జయంతిని పురస్కరించుకొని భారత ప్రభుత్వ డీఎస్టీ విభాగం విజ్ఞాన ప్రసార స్కాప్ ప్రాజెక్టు వరంగల్ నిట్ నోడల్ యూనిట్ ఆధ్వర్యంలో బుధవారం ఇంజనీర్స్ దినోత్సవంలో భాగంగా జాతీయస్థాయి ఒక రోజు సింపోజియంను నిట్ సంచాలకుడు ఆచార్య ఎన్.వి. రమణారావు ప్రారంభించారు. వరంగల్ నిట్ స్కాప్ ప్రాజెక్టు ప్రిన్సిపల్ ఇన్వెస్టిగేటర్ ప్రొఫెసర్ కె.లక్ష్మారెడ్డి ఇంజనీర్స్ డే ప్రాధాన్యం సైన్స్ ప్రచారంపై నిర్వహిస్తున్న కార్యక్రమాలను వివరించారు.

Technical Session

- **11.00 am onwards: As many as 10 expert lectures on various engineering topics were briefly presented and discussed**
- Dr. Nakul Parashar, Director, DST-Vigyan Prasar, on *"Science & Technology Communication and Societal Progress"*
 - Prof. N. V. Ramana Rao, Director, NIT Warangal, on *"Civil Engineering and Society"*
 - Dr. Ch. Mohan Rao, JC Bose Fellow, CCMB, Former Director, CCMB, Hyd'bad on *"Biotechnology and Healthcare "*
 - Prof. M. Pandu Ranga Rao, Retd Professor, Geo-Tech Engg. NIT Warangal, on *"Ramappa Temple as UNESCO World Heritage Site – Geo Tech. Evaluation"*
 - Prof. M. Sydulu, Professor of Electrical Engg., NIT Warangal on *"Energy and Power Projects"*
 - Dr. Tata N. Rao, Director, ARCI, Hyderabad, on *"Materials and Mankind"*
 - Prof. L. Krishnanand, Professor of Mechanical Engg., NIT Warangal on *"Machines and Machinery and Human Civilization"*
 - Prof. L. Anjaneyulu, Professor of ECE., NIT Warangal, on *"Electronics and Communications: How People Got Connected"*
 - Dr. Satyanarayana V Nandury, Chief Scientist, CSIR-IICT, Hyderabad, on *"Chemical and Pharmaceutical Industrial Research and Society"*(Online)
 - Prof. N. Venugopal Rao, Agricultural University (Retd), Hyderabad, on *"Transformations in Agriculture"*



Infrastructure



Structures & Dynamics Laboratory-Shake Table & Vibration of Beams (TEQIP-III)



Structures Laboratory- 100 Ton UTM (TEQIP-III)



Concrete Laboratory- Jaw Crusher



Concrete Laboratory-Segregator

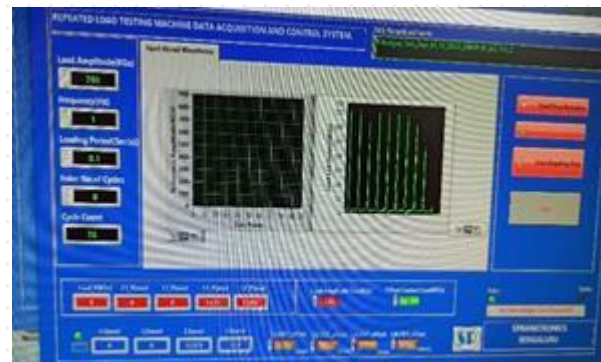


Concrete Laboratory-Creep Testing Equipment



Structures & Dynamics Laboratory- Drop Weight Impact Tester (IMPRINT-

Structures & Dynamics Laboratory- Drop Weight Impact Tester (IMPRINT-2)



Transportation Engineering Laboratory- Fatigue Testing Machine Test Setup

Obituary

- ❖ With deep regrets it is to bring to your notice, Prof. K. Koteswara Rao, Retd., Principal, RECW has passed away on 29.09.2021.



Late Prof. K Koteswara Rao

Birth

Born	: 19/10/1929
Place of birth	: Sangam Jagarlamudi, a village near Tenali, AP
Father	: Sri Kotha Sambaiah
Mother	: Smt. Kotha Varalakshmi

Education

SSLC	: Tenali
Intermediate	: 1945–47, Hindu College, Guntur
Engineering	: 1947–51, College of Engineering, Guindy, Madras
MS	: 1959–60, University of Iowa, USA
PhD	: 1963–66, University of Iowa, USA

Work

51-53	: Engineer, PWD, Vijayawada
53–56	: Engineer, Burmah Shell
55–60	: Lecturer, AU
60–66	: Reader, AU
66–73	: Professor and Warden, AU
73–89	: Principal, RECW

- ❖ With deep regrets it is to bring to your notice, Dr Srivastava, Medical officer, Institute Health Centre has passed away on 4th July 2021




Late Dr. Srivastava

In News



గూగుల్ క్లాడ్ కీలక పదవిలో భానుమూర్తి బల్లాపురం

న్యూఢిల్లీ: గూగుల్ క్లాడ్ జూనియర్ పసిఫిక్ ప్రాంతాల కస్టమర్ ఎక్స్ పీరియెన్స్ విభాగ వైస్ ప్రెసిడెంట్ గా భానుమూర్తి బల్లాపురం నియమితులయ్యారు. విప్రో మాజీ చీఫ్ ఆఫ్ టెక్నికల్ ఆఫీసర్ (సీఓఓ) అయిన భానుమూర్తి.. అమెరికాలోని గూగుల్ కస్టమర్ ఎక్స్ పీరియెన్స్ విభాగ వైస్ ప్రెసిడెంట్ జాన్ జెస్సెర్ కు రిపోర్ట్ చేయనున్నారు. ఎన్ఐటీ వరంగల్ నుంచి బీ.టెక్ (మెకానికల్), ఐఐఐఐఐఐ అమ్మాదాబాద్ నుంచి ఎంబీఏ పూర్తి చేసిన భానుమూర్తికి ఐటీ సేవల రంగంలో 25 ఏళ్లకు పైగా అనుభవం ఉంది.



పర్యావరణ హిత ఆవరణగా నిట్

ఎన్ఐటీ క్యాంపస్: పర్యావరణ హిత ఆవరణ లక్ష్యంగా మొక్కలు నాటి సంరక్షణానికి ఎన్ఐటీ సంఘాలకు ఆచార్య ఎన్.వి.రమణరావు తెలిపారు. శనివారం విద్యాలయం ఏ టైపు క్వార్టర్స్ ముందు భాగంలో ఎన్ఐటీ బోధన, బోధనేతర సిబ్బందితో కలిసి డైరెక్టర్ దంపతులు మొక్కలు నాటారు. ఎన్ఐటీని గ్రీన్ క్యాంపస్ గా తీర్చిదిద్దడం కోసం మొక్కలు నాటి కార్యక్రమాన్ని 2019 ఆగస్టు 15 న ప్రారంభించామన్నారు. మియోవాకి తరహాలో రెండేకరాల భూమిలో ఒకేసారి 2137 మొక్కలు నాటగా ఇది ప్రస్తుతం చిట్టడమిని తలపిస్తుందని తెలిపారు. కార్యక్రమంలో ఎన్ఐటీ రిజిస్ట్రార్ ఎన్. గోవర్ధన్ రావు, డీప్యూ, బోధన, బోధనేతర సిబ్బంది పాల్గొన్నారు.



మొక్కలు నాటుతున్న ఆచార్య ఎన్.వి.రమణరావు దంపతులు. వక్కన రిజిస్ట్రార్ ఎన్. గోవర్ధన్ రావు

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