

ANNUAL REPORT

2023-24

National Institute of Technology Warangal

DIRECTOR'S REPORT



Prof. Bidyadhar Subudhi
Director

National Institute of Technology Warangal is pleased to release its Annual Report for the year 2023-2024. I am delighted to share with you the highlights of our major activities, achievements, initiatives and future plans during the year. Before presenting the report, let me put a few words about our Institute. National Institute of Technology Warangal (formerly Regional Engineering College Warangal) was the first among the chain of 31 NITs (RECs) was established on October 10, 1959. Since then, the Institute has been continuously striving toward towards excellence in imparting quality education to equip its graduates with competencies in leadership in technology. The Institute is renowned for its committed faculty members, staff and state-of the art facilities that support a positive learning environment. It was granted the status of 'Institute of National Importance'' by the Ministry of Education (formerly Ministry of Human Resources Development), Government of India. Today it is one of the leading academic institutions in the country and attracts the top rankers of JEE mains. The Institute also admits international students under DASA, ICCR and Study in India programs. In the NIRF 2024 rankings, our Institute is placed at 21st position in the Engineering Category, and 53rd position in Overall category. For the first time, we featured at 100th position in the Management category.

We offer 11 B.Tech programmes, 31 MTech programs and 5 Master of Science Programmes in Physics, Chemistry, Mathematics, MCA and MBA. The Institute also offers doctoral programmes in several research areas in Engineering, Sciences, Management and Humanities. To keep up with the ever evolving industrial landscape of our nation, we have launched new B.Tech and M.Tech Programmes. The Department of Electrical Engg. and Chemical Engg. together introduced a new M.Tech programme in Control and Automation to support the process control and automation industries. The Dept. Computer Science & Engg. offered a new BTech on AI&DS. Our senate has approved to offer e-Masters programs-an exclusive suite of online postgraduate-level courses tailored for professionals striving to stay ahead in today's fast-paced, technology-driven world. These programs feature flexible learning tracks and multidisciplinary modules, designed to be both intellectually enriching and aligned with the latest industry trends. NIT Warangal is always fast to adapt and foster an environment of academic readiness through changes.

Curriculum reforms feature as a major initiative in upholding the academic standard of an Institute of national importance. The curricula of all our UG and PG programmes were rigorously revised to make students industry ready. New courses on Design Thinking and Product Development for all the UG Programs have been introduced to foster a culture of innovation among the students. Fractal courses have been introduced to offer flexibility and a more focused learning experience to the students, paving way for experts from industry and academia to share their knowledge in a concise and effective way. The syllabi of all courses have been thoughtfully updated to align with evolving industry demands, reflecting our unwavering commitment towards fostering innovation and entrepreneurship. In line with NEP 2020, we now offer exit degrees, providing students with greater flexibility in their academic journeys. Most academic processes, from fee payment and semester registration and result processing, have been seamlessly automated through an in house ERP system. Additionally, biometric systems have been introduced for efficient attendance tracking, and enhancing accuracy.

I am glad to mention here that the 21st Convocation of our Institute was held on September 16, 2023. Dr.V. K. Saraswat, Member, NITI Ayog, Govt. of India graced the occasion as Chief Guest. In the 21st Convocation 2034 Graduating students were awarded Degrees and Diplomas. The much-valued degrees of NIT Warangal were conferred on 1064 B. Tech, 837 PG (M. Tech, M. Sc, MBA, and MCA), 7 PG Diploma and 126 PhD students. NIT Warangal celebrated its

65th Foundation Day on October 10, 2023 and the Institute lecture on this occasion was delivered by Dr. Komal Kapoor, Chairman and Chief Executive, Nuclear Fuel Complex, Hyderabad.

I am happy to share that the R&D activities in our Institute are moving on a steep positive trajectory. It is worth mentioning here that 14 faculty members of the Institute have featured in the top 2% world researchers list prepared by Stanford University. NIT Warangal has implemented several initiatives to foster R&D growth among students and faculty. To honour impactful research, the Institute introduced Research Excellence Awards, with four faculty members recognized last year. Starting this academic year, Best Thesis Awards have been established for PG, and PhD students. To encourage multidisciplinary research, the Institute funded 7 Centres of Excellence in emerging areas like Drones and Autonomous Vehicles, Sustainable Hydrogen & Fuel cells, e-Mobility & smart grid, VR & AR in Digital Manufacturing, and IoT based condition monitoring of infrastructure.

The Institute was granted sponsored projects from various funding agencies such as DST, ANRF, DRDO, industries, with an inclusive worth of Rs. 54.72 crore. Significant progress has been made in offering consulting services to various Public Sector Undertakings and industries, securing consultancy project grants of worth Rs. 4.19 crore. NIT Warangal has got sanctions for 9 SPARC projects and 19 GIAN programs in this academic year, which paves a path to invite foreign Faculty to NIT Warangal for academic and research collaboration. I am sure that these programmes would shed more light on our exemplary research and foster increased international collaboration.

Our Institute continues to set benchmarks in research excellence with impressive achievements across departments.The Department of Civil Engineering has made remarkable contributions in securing two high valued project grants. One project on the "Studies on Condition Assessment and Management Plan of the Krishna River Basin" from the Ministry of Jalashakti with an outlay Rs. 6.37 crore. And the other one on the "Advanced transport Modelling and Simulation for National Highways" from the Ministry of Indian Academy of Highway Engineers, with an outlay of Rs. 2.32 crore. The Department of Telecommunications of Government of India sanctioned a 5G Use-Case Laboratory as well as five R&D projects worth Rs. 4 crore to the Department of Electronics and Communications Engineering. The department was also sanctioned a FIST project worth Rs. 2.3 crore to develop IC Fabrication and Testing Technologies.

The Department of Computer Science & Engineering has secured a collaborative project from National Security Council Secretariat, worth Rs. 23.86 crore along with C-DAC Hyderabad and NIT, Rourkela to work on "Security Analysis of Software Systems". Other Engineering fields have also secured remarkable grants, including ₹1.26 crore for Electrical Engineering, ₹1.9 crore for Metallurgical & Materials Engineering, and ₹85.44 lakh for Mechanical Engineering. In the field of sciences, the department of Physics received grant worth Rs. 1.52 crore for their pioneering explorations. Similarly, the department of Mathematics & Chemistry received grants worth Rs. 74 lakh & Rs. 72 Lakh respectively for their advanced research. The Humanities, Social Sciences, and Management Studies departments have been granted sponsored projects to address critical societal and organizational challenges. The Department of Chemical Engg. & Biotechnology received SPARC grants worth 45.42 lakh & Rs. 72 lakh respectively to work on innovative projects.

These milestones are a testament to the relentless pursuit of excellence by our faculty and researchers, pushing the boundaries of knowledge and innovation. The Institute has signed 17 MoUs in the last year, which includes academic institutions, R&D organizations and industry, both nationally and internationally, paving the way for increased research collaboration and industry outreach. Our Institute has been invited by the Govt. of Telangana to collaborate towards R&D and start-up for AI applications in several key areas including healthcare, agriculture and transportation. In the last academic year, the publication count of the Institute stands at 583 in reputed Journals that testifies the research potential of our faculty colleagues and students.

Our faculty and students have been granted 29 patents this year and another 36 applications are in the pipeline. This is a remarkable record in the history of NIT Warangal. The Institute is actively empowering students to launch start-ups by providing initiation grants and fostering collaborative ventures with industry partners. The NIT Warangal Innovation and Entrepreneurship Foundation has been established as a section 8 company for fostering innovation and supporting startups. 15 start-ups have already been registered in the Centre for Innovation and Incubation, recognized under the Ministry of Corporate Affairs, which is one of the milestones in the journey of innovation and incubation of the Institute.

NIT Warangal has also been sanctioned Rs. 1.37 crore under the Miety Genesis Gen-Next Support for Innovative Startups, which would provide funding for the next 5 years.

The Institute has advanced technology transfer by engaging with industries and showcasing innovations like the hybrid wastewater treatment system for textile effluent at IInvenTiv-2024, a premier R&D fair at IIT Hyderabad. NIT Warangal houses some of the most sophisticated and high-end laboratory equipment, facilitating the ongoing research and development activities of the students and faculty members. Several high-end equipment were added in the last year to upgrade and strengthen the existing research facilities. Some of the notable additions include, Inverted Automated Microscope, Powder X-ray Diffraction System, High Temperature Extensometer, dSPACE Microlab to name a few.

I am delighted to share that NIT Warangal, in collaboration with INAE, successfully hosted the 18th Symposium on National Frontiers of Engineering and Innovation in Manufacturing Practices during16-17 November 2024. This was a proud moment for us to showcase engineering advancements, earning high appreciation from INAE.

CAMPUS PLACEMENTS play a pivotal role in bridging academic excellence with industry opportunities to shape the future of students. Our success in good campus placements despite a serious down trend in the industries is truly inspiring. Our campus placement in the last academic year 2023-24 witnessed a record number of placements of UG and PG students with attractive pay packages. 1103 students out of 1437 students have been successful in getting placement offers from reputed companies across the globe. 300 globally reputed companies have visited our campus for selecting our students. The highest pay package of Rs. 88 lakh per annum was offered by “Thought spot” company. This year also, the campus placements and Internships started on a high note. I congratulate Head, CCPD and his team for this achievement.

Over the past year, the Institute has made remarkable progress in enhancing cleanliness and hygiene across the campus. The campus has been transformed into a lush green space with extensive plantation, improved pedestrian walkways, renovation of Bhaba and Gokhale Halls. The Institute has undertaken the construction of a new substation. A state-of-the-art Waste Management facility has been established. Serving as both a laboratory and a hub for campus sustainability initiatives, it aims to advance eco-friendly practices and research.

The blacktopping of roads in academic, hostel and residential areas has significantly enhanced the aesthetic look. Another significant milestone is the completion of the Institute Health Centre, offering enhanced healthcare services to the campus community. The development of pedestrian pathways from the second gate to the post office in the first phase, has been completed. Construction of a 304 seated ladies hostel is progressing well. Plans for an additional ladies hostel to house 560 more students have been approved by the Board. The Institute has a futuristic plan for infrastructure development, including the construction of a Lecture Hall Complex, and residential quarters for faculty and staff. A 2,500-seat Amphitheatre, a new canteen, and the renovation of the auditorium are about to begin. Plans are also made to introduce the IP phone system, to install CCTV cameras at strategic locations.

The Government of India has undertaken several initiatives and projects to promote sustainability and align with global sustainable development goals. As part of Mission LiFE (Life style for Environment) initiative, the Institute is working towards a sustainable campus by taking up (i) water and waste management activities and (ii) energy, health-style and environmental activities. The Institute also has a biogas digester to treat the solid organic waste generated from different sources within the campus premises. Through these initiatives, the Institute demonstrates its commitment to environmental sustainability, energy efficiency and the goal of being zero-waste campus through scientific solutions.

In the last year, two rounds of faculty recruitment have been completed and a total of 37 faculty members in the first round and 47 faculty members in the second round have been recruited. Faculty orientation programs were organized to familiarize newly recruited members with the Institute's operations, emphasizing their roles and responsibilities.

The Institute has introduced staff awards to encourage excellence in performance of their duties. I am happy to share that 13 of our staff were awarded with cash prizes and certificates for their dedication and hard work. The Departmental Promotion Committees also met regularly to ensure timely promotion for the staff. Recently we recruited 10 no-teaching staff.

COMPUTING INFRASTRUCTURE AND DIGITAL GOVERNANCE are critical for enabling secure, efficient, and equitable access to technology, fostering innovation, and ensuring responsible management of digital resources in a rapidly evolving digital landscape. The Centre for Digital Infrastructure and Services is continuously upgrading the computing facilities. Fibre optic cables have been laid for enhancing the high speed internet connectivity. NIT Warangal has introduced the e-Office system since November, 2023, for effective and transparent governance, marking a significant milestone in modernizing administrative processes and promoting digital governance.

Our alumni have greatly contributed to the Institute in various ways. I would like to highlight the significant role of Mr. N. Venu and his team from M/s. Hitachi for establishing a high-end Smart Grid Laboratory in the Department of Electrical Engineering. Additionally, Hitachi Energy has donated two 13-seater electric vehicles as part of its CSR activities. I take this opportunity to congratulate seven highly accomplished alumni for being awarded this year's most coveted Distinguished Alumnus Awards. These awardees are, Professor, Mummadi Veerachary, Prof. Shamsher Bahadur Singh, Dr. J.R Joshi, Dr. S. Glory Swarupa, Sri Nagarjuna Venna, Sri Chatrapathi Shivaji Mukthavaram and Ms. Bisoya Loitongbam. I am glad to mention that several alumni reunions have been organized in the Institute campus this year. An International Alumni Meet was organized at Kathmandu, Nepal from 15th to 18th March 2024. I am delighted to announce that an Endowment Fund of Rs. 2.30 crore has been established with the generous contributions of our esteemed alumni. I take this opportunity to express my heartfelt gratitude to all our alumni for their unwavering dedication and support to their alma mater.

STUDENT ACTIVITIES, which I believe are an integral part of campus life, reflecting the enthusiasm, creativity, and leadership of our student community. Our Institute has a vibrant student community who conduct a wide variety of events within the campus. Springspree, one of the premier cultural festivals, was conducted by our students, from April 5th to 7th 2024. Thousands of students from all over the nation participated in the fest. Technozion, the annual technical festival was organized from 19th to 21st January 2024.

Our Athletics team secured Runners Up position with a medal tally of 4 Gold, 6 Silver and 6 Bronze in All India Inter NIT Tournaments. NIT Warangal Girls team secured Runner Up position in All India Inter NIT Handball Tournament organised by NITK Surathkal. Team Mechxhausters, a dedicated group of 20 students from the Department of Mechanical Engineering achieved remarkable success at the prestigious SUPRA SAE INDIA 2024 competition. Rucha Wagh, a final year B.Tech student, received a prestigious Charpak Lab scholarship 2024 for pursuing Summer Research Internship in LIRIS CNRS lab, France. Nicole Esther DCunha, a final year B.Tech student, received first prize in the MechAura 2024 competition organized by Pratt & Whitney.

Jai Hind!

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The Visitor



Smt. Droupadi Murmu
President of India

Board of Governors



Prof. Bidyadhar Subudhi
Chairperson I/c, Board of Governors,
Director, National Institute of Technology Warangal



Ms. Saumya Gupta, IAS
Joint Secretary
Ministry of Education
New Delhi.



Shri Sanjog Kapoor
Jt. Secretary & Financial Advisor
Ministry of Education, Govt. of India New Delhi



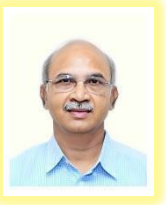
Prof. B.S. Murty
Director
Indian Institute of Technology Hyderabad, Kandi, Sangareddy



Shri I. Ashok Kumar Reddy
Associate Professor
Department of Mech. Engg.
National Institute of Technology Warangal
(upto 10.09.2023)



Prof. N.V. Umamahesh
Department of Civil Engg.
National Institute of Technology Warangal
(up to 31.10.2023)



Prof. K. Madhu Murthy
Professor (HAG),
Department of Mech. Engg.
National Institute of Technology Warangal (from 01.11.2023)



Shri G.R.K. Gupta
Associate Professor,
Department of Mech. Engg.
National Institute of Technology Warangal (from 27.09.2023 to 31.05.2024)



Prof. S.K.L.V. Sai Prakash
Associate Professor
Dept. of Electronics and Communication Engg.
National Institute of Technology Warangal (from 01.06.2024)



Prof. C.S.R.K. Prasad
Registrar In-charge
National Institute of Technology Warangal
(Upto 03.12.2023)



Prof. N.V. Umamahesh
Registrar In-charge
National Institute of Technology Warangal (from 04.12.2023)

FINANCE COMMITTEE

Prof. Bidyadhar Subudhi
Chairperson I/c
Finance Committee
Director, NIT Warangal

Members

Ms. Saumya Gupta, IAS
Joint Secretary
Ministry of Education, Govt. of India,
New Delhi

Shri Sh. Sanjog Kapoor
Jt. Secretary & Financial Advisor
Ministry of Education, Govt. of India
New Delhi (from 24.02.2023)

Prof. N.V. Umamahesh
Department of Civil Engineering,
National Institute of Technology Warangal (up to 31.10.2023)

Prof. K. Madhu Murthy
Professor (HAG)
Department of Mechanical Engineering
National Institute of Technology Warangal (from 01.11.2023)

Prof. CSRK Prasad
Registrar In-charge
National Institute of Technology Warangal
Member-Secretary
(from 24.05.2023 to 03.12.2023)

Prof. N.V. Umamahesh
Registrar In-charge
National Institute of Technology Warangal
Member-Secretary
(from 04.12.2023)

BUILDING AND WORKS COMMITTEE

Prof. Bidyadhar Subudhi
Chairperson
Director, NIT Warangal

Members

Shri Ashok Kumar Khatua
Chief Engineer, Central Public Works Dept., Nirman Bhawan, Sultan Bazar, Hyderabad.

Shri K. Kishan
Chief General Manager (Opn-II) (Electrical),
TSNPDCL, Warangal.

Prof. P. Rathish Kumar
Dean (Planning & Development),
National Institute of Technology, Warangal.

Shri Anil Kumar
Director (Finance), Integrated Finance Division Ministry of Education, Govt. of India, New Delhi.

Smt. Veena Dunga
Deputy Secretary, (NIT, BP & ISBN)
Ministry of Education, Govt. of India, New Delhi.

Shri I. Ashok Kumar Reddy
Assoc. Professor Department of Mechanical Engg.
National Institute of Technology Warangal.
(upto 10.09.2023)

Shri G.R.K. Gupta
Assoc. Professor,
Department of Mechanical Engg.
National Institute of Technology Warangal.
(from 27.09.2023 to 31.05.2024)

Prof. S.K.L.V. Sai Prakash
Associate Professor
Department of Electronics and Communication Engg.
National Institute of Technology Warangal.
(from 01.06.2024)

Prof. C.S.R.K. Prasad
Registrar In-charge
National Institute of Technology Warangal.
(from 24.05.2023 to 03.12.2023)

Prof. N.V. Umamahesh
Registrar In-charge
National Institute of Technology Warangal.
(from 04.12.2023)

DEANS

1.	Prof. A. Sarath Babu	Dean (Academic)
2.	Prof. D. Srinivasacharya	Dean (Student Welfare)
3.	Prof. P. Ratish Kumar	Dean (Planning & Development)
4.	Prof. V.T. Somasekhar	Dean (Research & Development)
5.	Prof. A. Venu Vinod	Dean (Faculty Welfare)
6.	Prof. D. Ramaseshu	Dean (International Relations and Alumni Affairs)

HEADS OF THE DEPARTMENTS

1.	Prof. Prakash Saudagar	Biotechnology
2.	Prof. T.D. Gunneswara Rao	Civil Engineering
3.	Prof. R Padmavathy	Computer Science and Engineering
4.	Prof. D. Kashinath	Chemistry
5.	Prof. P. Venkata Suresh	Chemical Engineering
6.	Prof. B.L. Narasimha Raju	Electrical Engineering
7.	Prof. D. Vakula	Electronics and Communication Engineering
8.	Prof. V. Suresh Babu	Mechanical Engineering
9.	Prof. N. Kishore Babu	Metallurgical and Materials Engineering
10.	Prof. A. Benerji Babu	Mathematics
11.	Prof. T. Venkatappa Rao	Physics
12.	Prof. R. Dhayanithi	Physical Education
13.	Prof. V. Rama Devi	School of Management
14.	Prof. K. Madhavi	Humanities and Social Sciences

Chief Vigilance Officer (CVO) I/c. (Part-time)

Prof. A. Venu Gopal
Professor (HAG)
Department of Mechanical Engineering

ADMINISTRATIVE COMMITTEES OF THE INSTITUTE

S No	Committee	Members	Role
1	Deans and Heads Committee	Chairperson: Director Members: All Deans and Academic Heads	To review and take policy decisions related to the routine administrative issues of the Institute.
2	Institute Affairs Committee	Chairperson: Director Members: All Administrative Heads	To take review on the progress towards implementation of statutory committee decisions.
3	Institute Infrastructure Committee	Chairperson: Dean (PD) Members: SE, EMU PIC (Civil) PIC (Infrastructure) Chief Warden	To suggest maintenance of the existing infrastructure and propose for future infrastructure development.
4	Internal Complaints Committee	Chairperson: Female Professor Members: nominated by Director	To act as Inquiry Authority on a complaint of sexual harassment. To ensure that victims and witnesses are not victimized or discriminated because of their complaint. To take proactive measures towards sensitization of staff, students and faculty member of the Institute on gender issues.
5	Strategic Plan and Implementation Committee	Chairperson: Director Members: Deans, Senior Professors, two distinguished alumni and other faculty members nominated by Director	For formalizing strategic plans and implementation of the same for institute development
6	Space Allocation Committee	Chairperson (senior Professor) and members nominated by Director	To take review of the available space and provide recommendations for space allocation
7	Grievance Committees	(i) Faculty (ii) Staff (iii) Students Each committee has a Chairperson and members nominated by Director	These 3 committees to redress the grievances of faculty, staff and students.

HOSTEL ADMINISTRATION

Sl. No.	Name	Designation
1.	Prof. Abdul Azeem, Dept. of Physics	Chief Warden
2.	Prof. Sourabh Roy Dept. of Physics	Dy. Chief Warden
3.	Prof. S. Murali Mohan, Dept. of Chemical Engg.	Dy. Chief Warden
4.	Prof. P. Anbumathi, Dept. of Biotechnology	Dy. Chief Warden
5.	Prof. Sanjaya Kumar Panda, Dept. of Computer Science & Engg.	Warden
6.	Prof. Mukul Pradhan, Dept. of Chemistry	Warden
7.	Prof. Perugu Shyam, Dept. of Biotechnology	Warden
8.	Prof. Ch. V. Rama Rao, Dept. of Electronics & Communication Engg.	Warden
9.	Prof. Ramesh Babu, Dept. of Mechanical Engg.	Warden
10.	Prof. Swathi D, Dept. of Electrical Engg.	Warden
11.	Prof. Manish Pandey, Dept. of Civil Engg.	Warden
12.	Prof. E. Suresh Babu, Dept. of Computer Science & Engg.	Warden
13.	Prof. E. Satya Narayana, Dept. of Mathematics	Warden
14.	Prof. Ramya Araga, Dept. of Chemical Engg.	Warden
15.	Prof. Sandhya M, Dept. of Computer Science & Engg.	Warden
16.	Prof. Soumya Lipsa Rath, Dept. of Biotechnology	Warden
17.	Prof. Surya Kanta Ghosh, Dept. of Physics.	Warden
18.	Prof. Sanjit Biswas, Dept. of Civil Engg.	Warden
19.	Prof. Srinivas Jangili, Dept. of Mathematics	Warden
20.	Prof. Kanasottu Anil Naik, Dept. of Electrical Engg.	Warden
21.	Prof. Ilaiah Kavati, Dept. of Computer Science & Engg.	Warden
22.	Prof. Ramalingaswamy Cheruku, Dept. of Computer Science & Engg.	Warden
23.	Prof. Ram Krishan, Dept. of Electrical Engg.	Warden
24.	Prof. Mohammad Nabab Alam, Dept. of Electrical Engg.	Warden
25.	Prof. Triveni Prasad Shukla, Dept. of Mathematics	Warden
26.	Prof. Rahul Thangeda, School of Management	Warden
27.	Prof. Manjubala Bisi, Dept. of Computer Science & Engg.	Warden
28.	Prof. Srinagalakshmi Nammi, Dept. of Mechanical Engg.	Warden

REGISTRAR SECTION

Sl. No.	Name	Designation
1.	Prof. N.V. Umamahesh	Registrar In-charge
2.	Shri P. Ashok Kumar	Sr. Personal Assistant, Registrar's Office
3.	Shri Devkate Gajanan Vyankat	Asst. Registrar, Director's Office
4.	Shri Soumen Karmakar	Dy. Registrar, Administration
5.	Shri P. Krishna Chaitanya	Asst. Registrar, Administration
6.	Shri Vijay Anavaratham C	Dy. Registrar, Finance & Accounts
7.	Shri N. Nagaraju	Asst. Registrar, Finance & Accounts
8.	Shri K. Ashok	Asst. Registrar, Finance & Accounts (Internal Audit Cell)
9.	Shri V. Upendar	Asst. Registrar, Purchase & Stores
10.	Shri T. Sreenivas	Asst. Registrar, Examinations
11.	Shri Adesh Srivastava	Asst. Registrar, SRIC

RANKING

National Institutional Ranking Framework (NIRF), a system developed by the Government of India to rank Higher Education Institutions in the India based on certain criteria designed by MoE. The NIRF was launched by Honorable Minister of Human Resource Development on 29th September 2015. This framework outlines a methodology to rank institutions across the country. The methodology draws from the overall recommendations by a Core Committee set up by MoE, to identify the broad parameters for ranking various universities and institutions. The parameters broadly cover (i) Teaching, Learning and Resources, (ii) Research and Professional Practices, (iii) Graduation Outcomes, (iv) Outreach and Inclusivity and (v) Perception. Each institution is ranked based on its performance in these categories, and the rankings are published annually. The result of 9th edition of NIRF rankings 2024 was announced by the Honorable Union Minister of Education, Government of India Mr. Dharmendra Pradhan on August 12, 2024. NIT Warangal secured fifty-third positions in Overall, twenty-first position in Engineering, one hundredth in Management in the year 2024.

NIRF

Category \ Year	2020	2021	2022	2023	2024
Overall	46	59	45	53	53
Engineering	19	23	21	21	21
Management					100

THE (Times Higher Education)

The Times Higher Education World University Rankings 2024 include 1,907 universities across 108 countries and regions. The ranking methodology, includes 18 carefully calibrated performance indicators that measure an institution's performance across five areas: teaching, research environment, research quality, industry, and international outlook.

Category \ Year	2020	2021	2022	2023	2024
World					1001-1200
Asia					351-400

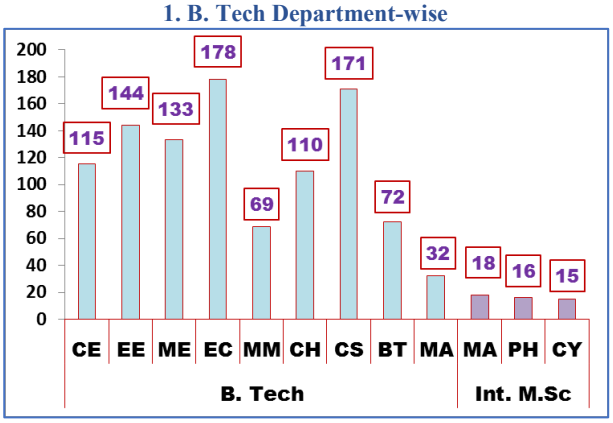
ACADEMIC PROGRAMS

The academic programs at NIT Warangal are well-regarded for their rigor and excellence, catering to a diverse array of disciplines in engineering, sciences, and management. These programs are designed to nurture talent and innovation, helping students excel in their professional careers while contributing to societal progress. The undergraduate program at the Institute provides comprehensive engineering and professional training based on current industry needs. The curriculum includes core courses, professional electives, and open electives at the Institute level. Additionally, undergraduate programs offer honors and minors, allowing students to earn extra credentials. All academic departments at the Institute provide honors and minors in their respective fields, with specific courses and projects required for completion. At the undergraduate level, NIT Warangal has introduced a 4-year B.Tech program in Mathematics and Computing, as well as VLSI Design and Technology, to address the country's industrial demands. To enhance problem-solving skills, creativity, and an entrepreneurial mindset, NIT Warangal incorporates a Design Thinking course into all undergraduate programs, which is beneficial in both personal and professional life. NIT Warangal also offers several Master's degree programs, including Master of Technology (M.Tech), Master of Science (M.Sc/M.Sc Tech), Master of Computer Applications (MCA), and Master of Business Administration (MBA). Furthermore, the Institute provides Ph.D. programs across a wide range of disciplines, including engineering, sciences, humanities, and management. These programs emphasize cutting-edge research, foster innovation, and address real-world challenges.

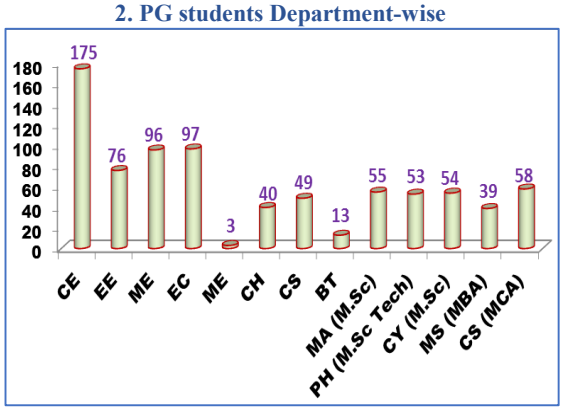
The Integrated Teacher Education Programme (ITEP) Centre is being established at NIT Warangal with funding from the Ministry of Education (MoE) to improve the quality of the teaching and learning process. The center will offer training programs and courses for newly graduated teachers, in-service teachers, and aspiring teachers in higher education disciplines. Its aim is to enhance their teaching skills and proficiency in using technology, such as developing e-learning materials, delivering online courses, creating curricula, and conducting research in pedagogy.

Students Admission Details: Academic Year 2023-24

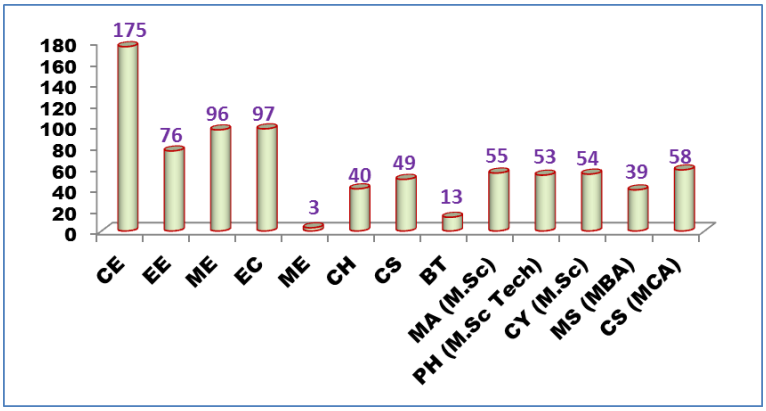
1. B. Tech Department-wise



2. PG students Department-wise



3. Ph.D. Scholars Department-wise

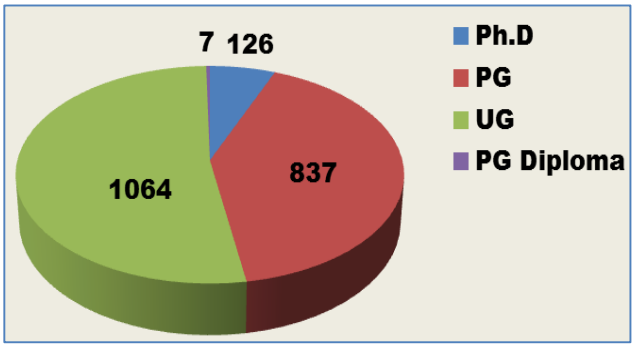


21st CONVOCATION
(16th September 2023)

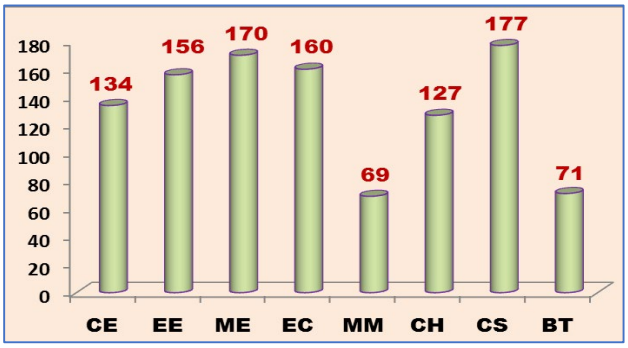
The 21st Convocation of our Institute was held on September 16, 2023. Dr.V. K. Saraswat, Member, NITI Ayog, Govt. of India graced the occasion as Chief Guest.



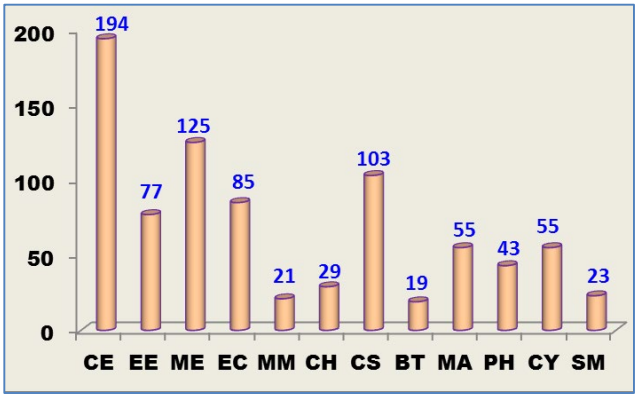
1. Number of Students Graduated



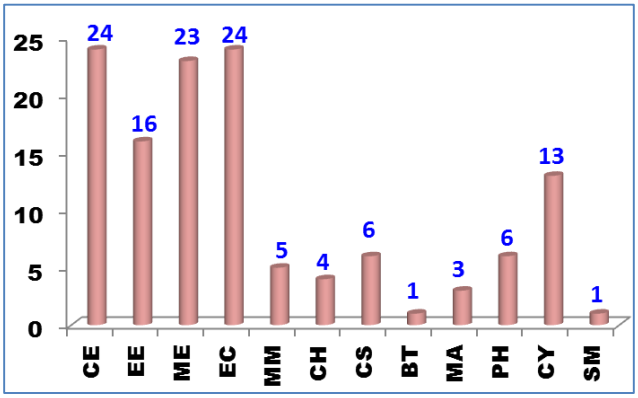
2. Number of B.Tech Students Graduated



3. Number of PG Students Graduated



4. Number of Ph.D Students Graduated



ACADEMIC SUPPORT CENTRES

S.No	Name of the Centre	Name the Employee	Designation
1.	Centre for Digital Infrastructure and Services (CDIS)	Prof. Rashmi Ranjan Rout	Head
		Shri P. Bhargava Reddy	Senior Technical Officer
		Shri Banothu Krishna Prasad	Senior Technical Officer
		Shri D. Govinda Rao	Technical Officer
		Shri Sudipta Manna	Technical Officer
2.	Library	Prof. Anand Kishore Kola	Chairman, Lib. Mgt. Committee
		Dr. K. Veeranjaneyulu	Librarian
		Dr. Iranna M. Shettar	Deputy Librarian
		Shri G. Balakrishna	Assistant Librarian
3.	Centre for Career Planning and Development (CCPD)	Prof. Joseph Davidson M	Head
4.	Student Activity Centre (SAC)	Prof. Hari Krishna P	President
		Prof. P. Hari Prasada Reddy	Vice-President
		Prof. Muralidhar Pullakandam	Vice-President
5.	Centre for Sports Activities (CSA)	Prof. R. Ravi Kumar P.	Head
		Prof. Dhayanithi	Professor
		Prof. Madhusudhan Reddy P.	Professor

NEW APPOINTMENTS (2023)

Faculty Appointments

S.No	Name	Designation	Department
1.	Prof. Jew Das	Assistant Professor Gr.II	Civil Engineering
2.	Prof. Vasudha Dattatraya Katare	Assistant Professor Gr.II	Civil Engineering
3.	Prof. Leela Manohar Aeshala	Assistant Professor Gr.II	Chemical Engineering
4.	Prof. Phanikumar Pentyala	Assistant Professor Gr.II	Chemical Engineering
5.	Prof. Nidhi Sonkar	Assistant Professor Gr.II	Computer Sciences and Engineering
6.	Prof. Shivadarshan SL	Assistant Professor Gr.II	Computer Sciences and Engineering
7.	Prof. Manish Kumar Bajpai	Associate Professor	Computer Sciences and Engineering
8.	Prof. Venkanna Udutalapally	Associate Professor	Computer Sciences and Engineering
9.	Prof. Tapan Kumar Sahoo	Assistant Professor Gr.II	Computer Sciences and Engineering
10.	Prof. Vijay Choyal	Assistant Professor Gr.II	Mechanical Engineering
11.	Prof. B. Venugopal Reddy	Associate Professor	Electrical Engineering
12.	Prof. Sharmili Das	Associate Professor	Electrical Engineering
13.	Prof. Sourabh Solanki	Assistant Professor Gr.II	Electronics and Communication Engineering
14.	Prof. Sanghamitra Moharana	Assistant Professor Gr.II	Metallurgical and Materials Engineering
15.	Prof. Bharath Bandi	Assistant Professor Gr.II	Metallurgical and Materials Engineering

Staff Appointments

S.No	Name	Designation	Department
1	Dr. G.Radha Rukmini	Senior Medical Officer	Institute Health Centre
2	Shri Sakthivel Samy	Principal Technical Officer	Centre for Digital Infrastructure and Services (CDIS)
3	Shri V. Upendar	Assistant Registrar	Academics

FACULTY INFORMATION
Faculty Recognition / Honors / Awards

S.No.	Faculty Member	Award	Awarded by
1.	Prof. Manohar Kakunuri	Executive Council Member	Indian Carbon Society
2.	Prof. S. Nagarajan	Best Young Researcher Award (Sciences)-2023	NITW
3.	Prof. K. V. Gobi	Fellow of the Telangana Academy of Sciences	Telangana Academy of Sciences
4.	Prof Arif Ali Baig Moghal	IGS-Prof. A.V. Shroff Biennial Award - 2023	Indian Geotechnical Society
5.	Prof. Arif Ali Baig Moghal	Springer Best Paper Award	Indian Geotechnical Conference 2023, IIT Roorkee
6.	Prof. Arif Ali Baig Moghal	Exceptional Peer Reviewer Award 2023	International Journal of Geosynthetics and Ground Engineering
7.	Prof. Arif Ali Baig Moghal	Outstanding Reviewer Award 2023	Journal of Hazardous, Toxic, and Radioactive Waste
8.	Prof. B Raghuram Kadali	Best Paper Award	EAST Society
9.	Prof. P. Rathish Kumar	Best Paper Award	International conference ICBMC-2024 Japan
10.	Prof. Jew Das	C V Raman Young Scientist Award	
11.	Prof. A. Kirubakaran	SIRE Fellowship	SERB
12.	Prof. Ram Krishan	ITS Award	ANRF, SERB-DST
13.	Prof. A. Kirubakaran	Best Paper Award	IEEE ICPC2T 2024 Conference, NIT Raipur
14.	Prof. V.V. Mani	International Travel Support (ITS)	SERB, INDIA
15.	Prof V. Rama	International Conference Chair	St. Augustine University, USA.
16.	Prof. Amarjit Kumar	VICE CHAIR, IEEE photonics society chapter Hyderabad section	IEEE Hyderabad Section
17.	Prof. Ekta Goel	Senior member IEEE	IEEE
18.	Prof. Ekta Goel	Faculty Advisor of IEEE EDS SBC NITW	IEEE EDS SBC NITW
19.	Prof. Sourabh Solanki	Senior Member IEEE	IEEE
20.	Prof. Sourabh Solanki	Editor	IEEE Communication Letters
21.	Prof. Suresh Periyannan	National Award in Excellence in Contribution to Research in NDT	Award Received at NDE Conference, Dec 2023
22.	Prof. Narasimha Rao R	Editorial board member	International Journal of Metallic Materials
23.	Prof. Narasimha Rao R	Best paper	ICMech-REC -2023, NIT Warangal
24.	Prof. Chandramohan V.P	Best paper	5th International Conference On Advances in Mechanical Engineering (Icame 2024)
25.	Prof. Abdul Azeem	Best Researcher Award (Sciences) 2023	NITW
26.	Prof. D. Haranath	President-Luminescence Society of India (Telangana Chapter)	Luminescence Society of India, Baroda (Reg. No. GUI/1156)
27.	Prof. Vijay Kumar	Optics in 2023	Optica Publishing Group, USA
28.	Prof. Surya K. Ghosh	Associate Editor	Frontiers in Physics
29.	Prof. Shirish H. Sonawane	Best Researcher Award (Engineering) 2023	NITW
30.	Prof. G. Raghavendra	Young Researcher Award (Engineering) 2023	NITW

Faculty Orientation Programme

22 new faculty were recruited in the years 2022 and 2023. To familiarize with the rules and regulations of the Institute, Orientation Programme was organized during June 1 – 5, 2024. As the faculty are expected to, in addition to teach, carry out research not just for the purpose of publishing, but for application to society, which includes patenting, transfer of technology, startups. To meet these expectations, eminent academicians and Senior Professors of the Institute were invited to take sessions. Prof. Shreepad Kulkarni, Director IIT Bhubaneswar was the Chief Guest for the Inaugural function and one of the resource persons.







The following faculty members have been featured in Stanford/Elsevier's top 2% Scientists list - 2023



Prof. Bidyadhar Subudhi (EE)



Prof. Mahamad Nabab Alam (EE)



Prof. K Ravi Kishore (EC)



Prof. V. T. Somasekhar (EE)



Prof. Sonawane Shirish Hari (CH)



Prof. D Srinivasacharya (MA)



Prof. Prakash Kodali (EC)



Prof. Sanjaya Kumar Panda (CS)



Prof. Adepu Kumar (ME)



Prof. Arif Ali Baig Moghal (CE)

STUDENT ACTIVITIES

TECHNOZION-2023









Technozion, the annual technical festival themed "Ingenious" was organized from 19th to 21st January 2024. With over 800 Institutes participating, the fest provided an opportunity to showcase and upgrade the technical skills of 15000 plus students. A thrilling event "Auto Fragen," an exhilarating automobile quiz testing automotive knowledge was featured. Witness the excitement of "Vehicle Demonstration" by student BAJA teams showcasing their innovative vehicles. The "Mechanical Kit Assembly," provided a hands-on challenge to assemble mechanical kits swiftly. "Parishkar," a design and prototype competition showcasing creativity and engineering prowess was held.

1. **Supply chain management (SCM) workshop**

Date: 07/03/24 The Supply Chain Management workshop provided insightful discussions on the vast scopes and exciting opportunities within the field. Provided knowledge about future job profiles and the importance of certifications for career advancement. The event highlighted the dynamic nature of supply chain roles and emphasized the growing demand for skilled professionals in this evolving industry.

2. **ALTAIR workshop**

Date: 16/03/24 The ALTAIR workshop delved into the dynamic scopes and exhilarating prospects within the design field. Participants explored cutting-edge trends, innovative methodologies, and the evolving landscape of design disciplines. Additionally, the workshop shed light on future job profiles, emphasizing emerging roles and skill sets required to thrive in the rapidly evolving design industry.

Automobile Teams

At NIT Warangal, we emphasize practical learning and competitive involvement to nurture engineering talent. Our Institute is home to three distinguished automobile teams: Team Mechxhausters, Team Mechaholics, and Team

Spardhak. Each team exemplifies dedication, technical prowess, and a competitive spirit, representing NIT Warangal on prominent national platforms.

1. Team MECHXHAUSTERS, the Formula Student team of NIT Warangal, excels in the design and construction of single-seater, open-wheel race cars, known as Formula Student vehicles. The team competes in the prestigious SUPRA SAE INDIA and Formula Bharat competitions, held at the Buddh International Circuit in Greater Noida, Uttar Pradesh and Kari Motor Speed Way, Coimbatore, Tamilnadu, India respectively. These vehicles are designed to provide high performance, with a focus on speed, agility, and innovation in engineering design. Through these competitions, Team Mechxhausters showcases their exceptional engineering skills and innovative solutions, consistently demonstrating excellence in both performance and aesthetics.

2. Team MECHAHOLICS, renowned for their expertise in quad bike engineering, participates in the Quad Torc and QBDC competitions. Quad bikes, also known as all-terrain vehicles (ATVs), are designed for off-road use and require a balance of power, stability, and maneuverability. These competitions, held at SISTec in Ratibad, Bhopal, Madhya Pradesh, allow Team Mechaholics to display their technical acumen and engineering ingenuity. The team's innovative designs and robust constructions push the boundaries of quad bike performance and durability.

3. Team SPARDHAK, engages in the challenging BAJA SAE INDIA competition, which is held in Pithampur, Madhya Pradesh. The BAJA SAE competition involves designing and building durable off-road vehicles, known as Baja vehicles that can withstand harsh terrains and rigorous conditions. These vehicles are characterized by their rugged construction, ability to navigate difficult landscapes, and endurance under extreme conditions. Team Spardhak's participation in this event underscores their ability to develop vehicles that excel in demanding environments, demonstrating their advanced engineering capabilities and resilience.

Technozion Events

1. Chem-story
2. Chem-hunt
3. Make the molecule
4. Brain game
5. Science Expo
6. Chem-fire
7. Research Nexus on "Presentation of a research idea"
8. Design Vista on "creating designs with given structures like of school, hospitals, office, by considering various parameters using software".
9. Staad pro workshop
10. Bidcraft on "Aligning proposal with client expectations, showcasing expertise and incorporate innovation"
11. Guest lecture by Dr. Bijily balakrishnan on "Cracking in Concrete Structures: Science and Applications of Science"
12. Guest lecture by Dr. Narasamma Nipatlapalli Non-Thermal Plasma: A Sustainable Solution for Mineralization of Emerging Contaminants in Wastewater

Spring Spree -2024



Springspree, one of the premier cultural festivals, was conducted by our students, from April 5th to 7th 2024, with the theme "Rasengan". Over 40 events were organized during the 3 days fest. Thousands of students from all over the nation participated in the fest.

Student Achievement:

1. Nicole Esther DCunha (21MEB0A45) who is currently a B.Tech final year student, has received first prize in the MechAura 2024 competition organized by Pratt & Whitney, India Engineering Center, Bangalore.


Pratt & Whitney
An RTX Business

CERTIFICATE

OF FIRST PRIZE

THIS CERTIFICATE IS PRESENTED TO

NICOLE ESTHER

in recognition of her First Place achievement in the Mechaura 2024 competition, conducted by Pratt & Whitney India Engineering Center, Bangalore.

Rema PR
General Manager,
P & W India Engineering center

MECH AURA

Sandeep SP
HR Lead, P & W India



2. Kaniz Fatema Anna (21MEB0F06) who is currently a B.Tech final year student, has been certified as Supply Chain Analyst by successfully completing the ISCEA Global Supply Chain Case Competition 2023 organized by International Supply Chain Education Alliance, Ohio.



International Supply Chain Education Alliance

UPON THE RECOMMENDATION OF THE FACULTY HAS CONFERRED UPON

Kaniz Fatema Ananna

The designation of

Certified Supply Chain Analyst - CSCA

In recognition of the fulfillment of requirements pertaining to this certification

Conferred in Cleveland, Ohio, USA
December 22, 2023

Expiration Date:
December 31, 2026

Certificate No. 2312222069
To verify, scan the QR code or visit
www.iscea.org/verify-certification

Dr. Charles A. Watts, DBA, CSCM, Jonah
Executive Director of Education & Certification

www.iscea.org

3. Rucha Wagh (21MEB0B73) who is currently a B.Tech final year student, had received a prestigious Charpak Lab scholarship 2024 in her 3rd year for pursuing Summer Research Internship in France. She had successfully completed her internship in LIRIS CNRS lab, France.
4. Kevin Amal Darren (21MEB0B31), 4th year mechanical student won 9th rank in the annual robotics competition held by IIT-B (about 3500+ teams participated).

Student Accolades in Sports

1. Mr. Sai Vamsi (2nd B.Tech EC) Secured First position in Long Jump in Hanumakonda and Warangal Districts Athletics Championship.
2. Mr.M.Gowtham Karthik (3rd B.Tech Mech) Secured Second Position in 100 Metres and Long Jump in Hanumakonda and Warangal Districts Athletics Championship 2023. The competition was organized by District Athletics Association on 15th September 2023 at JNS Stadium, Hanumakonda.
3. NITW Badminton Men team secured Runner-Up position in All India Inter NIT Tournament held at MNIT Jaipur from 14 to 16 October 2023. The Team members consist of Mr. Akshat Rai Laddha (C) Mr. Naveen Boby Pillai Mr. Sivasankar MV, Mr. Penta Jayavardhan Naidu and Mr. Nitin Sanjay.
4. NITW Girls team secured Runner Up position in All India Inter NIT Handball Tournament organized by NITK Surathkal from 26 to 28 October 2023.
5. NIT Warangal Power Sports team secured medals in All India Inter NIT Power sports event organized by NIT Durgapur from 3rd to 5th November 2023. The list of medal winners are;
   Mr.Kiran K.R, Powerlift, Category 93kg- 2nd ME- Bronze Medal
   Mr. Syak Chaudhuri, Weightlifting, Category 61 kg, MM 2nd- Gold Medal
   Mr.Diman Thakuria, Powerlift, Category 74kg, MBA- Gold Medal
   Mr. Sanchit Nangia, Bodybuilding, Category 85kg, Chemical 2nd- Bronze Medal
6. NITW Handball Girls team secured Runner Up position in All India Inter NIT Tournament held at NITK Surathkal.
7. NITW Swimming team members secured individual medals in All India Inter NIT Competition held at NIT Rourkela.
8. NITW Athletics Team secured Runner Up and Kho-Kho Women were winner in the All India Inter NIT Tournament organized by NIT Warangal. Medal winners are as follows:
   Anish Lathar (Gold in 800Mts),
   Kiran KR (Gold in Hammer Throw),
   Barkha Tandekar (Gold in Long Jump),
   NIT-Warangal Team (Gold in 4X400Mrs Relay)
   Anish Lathar (Silver in 1500Mts),
   Goutham Karthik (Silver in 200Mts)
   Arpit Yadav (Silver in Hammer Throw)
   Anunita Bindal (Silver in Hammer Throw)
   NIT-Warangal Team (Silver in 4X100Mrs Relay).
   Goutham Karthik (Bronze in 100Mts)
   R Chintu (Bronze in 5000Mts)
   Kiran KR (Bronze in Shotput),
   Vaibhav RJ (Bronze in Triple Jump)
   Ashka Warke (Bronze in Hammer Throw)
   Vaibhav RJ (Bronze in 110M Hurdles)
   Shawn Prabath (Bronze in 400M Hurdles)

9. Intramural Competition -Annual Sports: Mechanical Department become Overall Champions in Games Section and in Athletics PG Department become Overall Champions.
10. Mr.K.R.KIRAN of Final Year-M.Tech of Mechanical Department and Ms.DAKSHA ZAWAR, Final Year- B.Tech, MM become Best Outgoing Sportsman and Sportswoman of the academic year 2023-24.

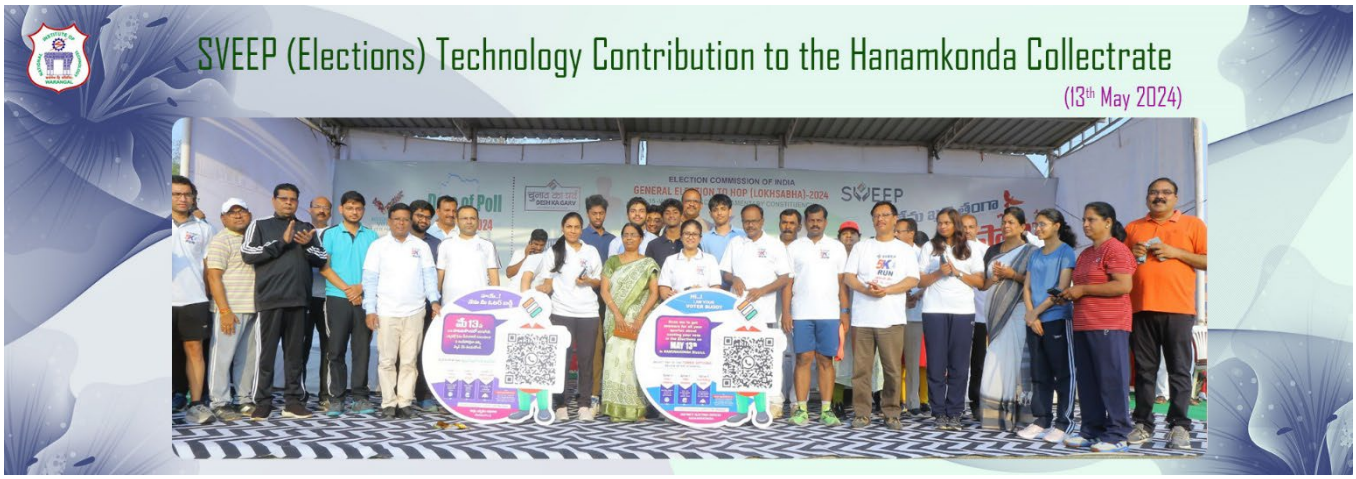
Student Awards:

S.No	Name	Achievement Details (Conference paper, best paper award, abroad visit)
1.	Anam Upadhyay *(M.Tech. 1st-year student)*	She is selected for the Khorana Program for Scholars. During the summer of 2024, to pursued her internship at Purdue University, USA, under the supervision of Dr. Andrea Kasinski
2.	Nabanita Mandal (PhD)	Received Travel Award worth $1000 from the American Society for Biochemistry and Molecular Biology (ASBMB)
3.	Sai Bhavani Gottumukkala (PhD)	Received Grants from European Molecular Biology Organization (EMBO) and PerMEDCoE (Barcelona supercomputing center) to present her work and attend an international workshop on Computational Models of Life: From molecular biology to digital twins, workshop organized by EMBO, Spain.
4.	Sai Bhavani Gottumukkala (PhD)	Received travel grant to attend a course on Theoretical Approaches in Cancer Progression and Treatment (MATHONCO- 2024) from March 11-22, 2024 organized by 'International Center for Theoretical Sciences (ICTS - TIFR), Bengaluru, India
5.	Kalyan Kumar (M. Tech)	Received travel grant to attend a course on Theoretical Approaches in Cancer Progression and Treatment (MATHONCO- 2024) from March 11-22, 2024 organized by 'International Center for Theoretical Sciences (ICTS - TIFR), Bengaluru, India
6.	Anjani Priya K	Role of NAC048 gene in drought tolerance of Oriza Sativa by using Bioinformatics approach. International conference on plant biotechnology and genome editing. Kakatiya University, Department of Biotechnology, (Received Best Poster award)
7.	Kamala Thota	Best paper Award, AOSS-5, NIT Warangal
8.	Neetika Singh	WISE - Fellowship for Ph.D. (WISE-PhD) in chemical sciences
9.	Bhargavi V	Jayanta Kumar Ghosh Award, IIT Roorkee
10.	Aarthi V	Grid India Power System Awards 2024 (formerly known as POSOCO Award) for her master thesis "Directional Protection and Fault Location for Lines Connected with Inverter Based Renewable"
11.	Vidyasree B.	Best Paper Presentation Award in PAN NIT HSSRC 2024.
12.	Gopika Jayachandran	Best Paper Presentation Award in PAN NIT HSSRC 2024.
13.	Aishwarya Sureshsan	Best Paper Presentation Award in PAN NIT HSSRC 2024.
14.	Nila B	CSIR Foreign Travel Grant (Full Fare) award for "33rd European Conference on Operational Research" in Copenhagen, Denmark [Not availed]
15.	Nila B	DST-SERB International Travel Support (ITS) award for "33rd European Conference on Operational Research" in Copenhagen, Denmark [Availed]
16.	Krishnendu Nayak	Travel/Living grant (1000 EUR) and Registration fee waiver for General Assembly XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG), Berlin, Germany [Not Availed]
17.	Ankita Hazarika	M. Tech. (EE), Best paper Award in *Ninth Indian Young Geotechnical Engineers Conference*
18.	V. Uday Kumar	1st prize in Metallography Contest, ICAM-2023, NITW
19.	V. Uday Kumar	Best oral presentation award, ICAM5-2023, NITW
20.	G. Savio	Best oral presentation award, ICAM5-2023, NITW
21.	Pooja Yadav	DST-SERB International Travel Grant to give Oral Presentation at the 13th international conference on environmental, energy and biotechnology (ICEEB 2024) held in Seoul, South Korea

22.	Pooja Yadav	Secured 2nd position in poster presentation in research scholars' confluence- 2024 organized by National Institute of Technology, Warangal, Telangana, India, on 17 Feb 2024.
23.	Pooja Yadav	Best oral presentation award at 8th International Conference on Advanced Nanomaterials and Nanotechnology-ICANN 2023, organized by Centre for Nanotechnology, IIT Guwahati, Assam, India,
24.	Nikhil Vangety	Received a travel grant from the Department of Science and Technology- Science and Engineering Research Board (DST-SERB) under the International Travel Scheme with Grant No.: ITS/2024/000223 for presenting a paper titled, "Deep learning-based macro-bending loss detection by plastic optical fiber specklegram analysis" in Strasbourg, France
25.	Siju Mishra	Best Oral Paper Award in *7th International Conference on Luminescence & its Applications,* IICT Hyderabad
26.	M. Rakshita	Best Poster Award in *7th International Conference on Luminescence & its Applications,* IICT Hyderabad
27.	Aachal A Sharma	Appreciation cum Merit Award for Poster in *7th International Conference on Luminescence & its Applications,* IICT Hyderabad
28.	Payal P Pradhan	Best Poster Award in *Research Scholar's Confluence*, NIT Warangal
29.	Aachal A Sharma	Best Poster Award in *Ceramics for Frontier Sectors: Emerging Advances and Prospects*, IIT Roorkee
30.	M. Rakshita	Consolation Prize for Poster in *Conference on Innovations in Material Science*, IIT Roorkee
31.	Aachal A Sharma	Best Oral Presentation Award in *2nd International Conference on Spectroscopy in Material Science,* University of Aveiro, Portugal
32.	S. P. Ramadevi	SERB Travel grant for ILCC 2024 conference in Brazil
33.	Soumya Ranjan Pradhan	DBT Travel grant for ILCC 2024 conference in Brazil
34.	S. P. Ramadevi	Best Poster Award at Research scholars Confluence -2024 National Institute of Technology Warangal
35.	S. P. Ramadevi	Best Poster Award at India Semiconductor Mission Celebration National Institute of Technology Warangal
36.	A. Maha lakshmi	Best paper award, 2nd International Conference On Materials For Sustainable Development And Technologies (ICMSDT – 2024), "REE (Tb3+) Influence on In Vitro Bioactivity Response of Mesoporous Bioactive Glasses as the Application of Bone Tissue Engineering" Organized by Department of Nanoscience and Materials Central University Of Jammu.
37.	M. Navaneeth	ITS travel grant from SERB
38.	Purnesh Singh Badavath	Best PhD Student Poster Award at International Conference on Optical Angular Momentum 2024
39.	Purnesh Singh Badavath	ITS travel grant from SERB
40.	Ms. Anjaly Babu	Best Poster Award; International Conference on Innovations in Materials Science at Indian Institute of Technology Roorkee
41.	Rejoy Mathew	Selected for Ph.D. with Distinguished Fellowship University of Massachusetts, USA
42.	Vrinda Garg	Selected for oral presentation at American Physical Society (APS) conference, DPLOY-2023.
43.	Vrinda Garg	Received third prize in a poster presentation at Research Scholars' Confluence, National Institute of Technology Warangal
44.	Mr Jitesh Pani	Best Poster Award and Cash Price in International Conference PTSDG2024 Taiwan
45.	Mr. AMAN	Amit Ghosh Memorial Award for Excellence in Sports- awarded by NIT-Warangal.

	Dept. of Chemical Engg.	
46.	Ms. JUHI A Chemical Engg.	Amit Ghosh Memorial Award for Excellence in Sports- awarded by NIT-Warangal





Our B.Tech (CS) students developed a chat bot for supporting towards effective polling system for the state of the Telangana during the recent Assembly elections. This was inaugurated by the Collector Hanumakonda.

E-Summit

To foster an entrepreneurial mindset and innovation among students E-summit was conducted on 16th and 17th of March 2024.

Esteemed speakers included Sri Charan Lakkaraju from Student Tribe, Shikhar Goel, CTO at GeeksforGeeks, Gaurav Sharma, Founder & CEO at SaaS Labs, Ria Mirchandani from Sarvam AI and ex-Product Lead at WhatsApp, Rajalakshmi Srinivasan, Director of Product Management at Zoho, V.A. Sastry, the first non-founder board member of Infosys, and Manu Menon, Strategy Head at Bosch. In addition to these inspiring talks, the summit featured over 10 events aimed at promoting innovation and business ideas. These included engaging interactions with students, incubators, accelerators, and esteemed professors from management schools.



NSS Activities

Swacchata Campaigns

Monthly Swachhata campaigns were conducted with active participation from faculty, staff, and students. These efforts have significantly improved the cleanliness and overall ambience of the Institute. Additionally, campus greenery has been increased. There are also concerted efforts to make NIT Warangal, a plastic free campus.







RESEARCH, CONSULTANCY, INNOVATION AND INCUBATION

Sponsored R&D Projects

Total number of projects sanctioned (including SPARC, GIAN, MSME, MIETY etc)	65
Total grant of the projects sanctioned during the period, INR	34,18,33,868
Section 8 companies formed	NIT Warangal Innovation and Entrepreneurship Foundation has been registered as Section 8 Company.
Total start-ups registered	15
RSG grants to new faculty	22 RSG and Amount is 109.05 lakhs
No. of Centres of Excellence registered and the total amount funded (supported) by NIT Warangal	7, INR 70 lakhs
Start-ups support	6 start-up seed grants to faculty and students (INR 5 lakhs for each faculty startup and INR 2 lakhs for students)

Major Projects

S. No.	Department / Name of the Faculty	Project Title	Funding Agency	Amount, INR, Lakh
1	Chemical Engineering	FIST Engineering Sciences	FIST	140
2	Prof N V Umamahesh, CE	Studies on Condition Assessment & Management Plan for Krishna River Basin	NRCD, Min of Jal Shakthi	627
3	Prof CSRK Prasad, CE	Advanced Transport Modelling And Simulation For National Highways In India	(IAHE),MORTH,GOI,NEW DELHI	232
4	EC	FIST Engineering Sciences	FIST	223

4) Sponsored Projects: [Scheme for Promotion of Academic & Research Collaboration" (SPARC)]

i) Sanctioned 09 Phase-II Projects with Duration of **02 Years** (From 28/07/2023 to 27/07/2025)

S.No	Name of PI	Name of the Co PI	Title	International Collaborator with Country	Amount Sanctioned, INR, Lakh
1.	Prof. V. Ramsagar (Chemical Engineering)	Prof. P. V. Suresh (Chemical Engineering) Prof. K. Manohar (Chemical Engineering)	Development of low cost indigenous oxygen carriers with high red-ox cyclic stability for Chemical Looping Combustion of high ash Indian Coals	Prof. Henrik Leion, Chalmers University of Technology, Sweden Prof. Fanxing Li, North Carolina State University, USA	40
2.	Prof. Shirish H Sonawane (Chemical Engineering)	Prof. Prakash Saudagar (Bio Technology) Prof. Avinash (Bio Tech, IIT Indore)	Smart polymeric nanoparticles based delivery system for the delivery of Anti tuberculosis drug	Prof. Maxim Shevtsov, Russian Academy of Sciences (RAS), Russia	25

3.	Prof. Raghu Raja Pandiyan K (Chemical Engineering)	Prof. Shirish H Sonawane (Chemical Engineering) Prof. Shriram Sonawane (Bio Tech, VNIT Nagpur)	Combinatorial Approach to Predict Synergistic Ablation Behavior of Hybrid Nano-Filled Phenolic-Carbon Composites under Aerodynamic Loading through Experimentations and Process Model Simulations	Prof. Manoj Gupta, NUS Singapore Prof. Aravind Dasari, NTU Singapore	45
4.	Prof. Seshagiri Rao A (Chemical Engineering)	Prof. T. K. Radhakrishnan (Chemical Engineering, NIT Trichy	Advanced Control of Complex Pharmaceutical Processes	Prof. Zoltan K. Nagy, Purdue University, United States Prof. Doraiswamy Ramakrishna , Purdue University, United States	48
5.	Prof. Venkat Reddy K (Civil Engineering)	Prof. S. Ravi Chandra (CSE) Prof. Narasimharaju B. L (EEE)	Development of low-cost, open-hardware enabled watershed monitoring system for India	Prof. John S. Schwartz, University Of Tennessee, USA	91
6.	Prof. P. Rathish Kumar (Civil Engineering)	Prof. Perugu Shyam (Bio Tech)	Use of Fungi as a Construction Component for Prefabrication and Surface Treatment in the Built Environment	Dr. Thomas Daniel Dyer, University Of Dundee, UK	43
7.	Prof. M J Davidson (Mechanical Engineering)	Prof Asit Kumar Khanra (MME)	Deep Learning based Microstructural Prediction and Deformation Assisted Strengthening of Wire Arc Additive Manufactured Preforms	Dr. Rahul Rai, University At Buffalo Suny, USA Dr. Souma Chowdhury, University at Buffalo, USA	41
8.	Prof. S. Porpandiselvi (Electrical Engineering)	Prof. A. Kirubakaran (EEE) Dr. G. Saravana Ilango (EEE, NIT Trichy)	Design and Development of an Integrated Soft-switched CC-LED Driver based Solar LED Lighting System	Prof. Yaow-Ming Chen, National Taiwan University, Taiwan Dr. Ching-Jan Chen, National Taiwan University, Taiwan	41
9.	Prof. Thangaraju Kuppusamy (Physics)	Prof. D. Paul Joseph (Physics) Prof. V. Jayalakshmi (Physics)	Hybrid Tetrapod Nanomaterials Based Sustainable Optoelectronic Technologies	Dr. Yogendra Kumar Mishra, South Denmark University, Denmark Prof. Jost Adam South Denmark University, Denmark	42

ii) Sanctioned Nine (09) Phase-III Projects with Duration of 02 Years (From 01/04/2024 to 31/03/2026)

10.	Prof. Raghu Chitta (Chemistry)	Prof. Srilakshmi Venkata Patri (Chemistry)	A New Class of Blood-Brain-Barrier Crossing Fluorescence-based Nanotheranostics for Neurodegenerative Diseases	Dr. Suresh Gadde, University Of Ottawa, Canada Prof. Lisheng Wang, University Of Ottawa, Canada	44
11.	Prof. Aneetha Vilventhan (Civil	Prof. Shashi Mesapam	Development of Digital Twin of underground	Dr. Ranjith Kuttantharappel Soman,	71

	Engineering)	(Civil Engineering)	utilities for Smart cities	Delft University Of Technology, Netherlands Dr. L.L. Olde Scholtenhuis Leon, University Of Twente, Netherlands	
12.	Prof. Manjaiah Mallaiah (Mechanical Engineering)	Prof. Kishore Babu Nagumothu (Metallurgical and Materials Engineering)	Impact response of additively manufactured Ti-6Al-4V lattice structures	Prof. Clodualdo Jr Aranas, University of New Brunswick, Canada Prof. Etienne Martin, Polytechnique de Montreal, Canada	85
13.	Prof. A. Kirubakaran (Electrical Engineering)	Prof. Somasekhar V.T (Electrical Engineering) Prof. Siva Kumar K, IIT Hyderabad (Electrical Engineering)	Talkative-Power-Conversion-based Networking by means of Next-generation Communication and new GaN-based multilevel power converters	Prof. Marco Liserre, Christian-Albrechts-Universität Zu Kiel, Germany Prof. Peter Adam Hoeher, Christian-Albrechts-Universität Zu Kiel, Germany	52
14.	Prof. M. Jerold (Biotechnology)	Dr. Winny Routray, NIT Rourkela (Food Processing Engineering)	Extraction and encapsulation of phenolics and carotenoids from millet processing waste through Biorefinery approach	Dr. Mahesha M. Poojary, Department of Department of Food Science, University of Copenhagen, Denmark Prof. Charlotte Jacobsen, Professor and Head at Technical University of Denmark	71
15.	Prof. Ravi Shankar K.V.R (Civil Engineering)	Prof. Raghuram B. Kadali (Civil)	Safe System perspective on vulnerable road users in India	Dr. Aliaksei Laureshyn, Lund University, Sweden Dr. Carmelo D'agostino, Lund University, Sweden	71
16.	Prof. HP Rani (Mathematics)	Prof. Devanuri Jaya Krishna (Mechanical Engineering)	Intrinsic Convection and Magnetism inside the Earth, Planets and Fast Rotating Stars: New Similarity Criteria, Scaling Laws and Simplest models	Prof. Sergey Vladimirovich Starchenko, Novosibirsk State University, Russia Prof. Maria S. Kotelnikova, Novosibirsk State University, Russia	74
17.	Prof. Surajbhan Sevda (Biotechnology)	Prof. Makarand Ghangrekar, IIT Kharagpur (Civil) Prof. Polisetty Venkateswara Rao (Civil)	Development of an Integrated Biorefinery System: Synergizing Microalgae Biofuel Production, Wastewater Treatment, and Biogas Generation in a Bioelectrochemical System Platform	Prof. Vijaya Raghavan McGill University, Canada Dr. Ademola Adekunle McGill University, Canada	46
18.	Prof. Gopi Ram (ECE)	Prof. Gande Arun Kumar Kumar (ECE)	Novel Beamforming and MIMO Antenna Design for 5G/6G Application Employing Time-Modulation Techniques	Prof. Guy A. E. Vandenbosch Katholieke Universiteit Leuven, Belgium	58

5) Details of Foreign Visitors:

Below is the list of Foreign Faculty visited NITW for GIAN & SPARC Workshops between July 2023 to June 2024

Sl. No.	Name of the Faculty & Designation	Institution / University & Country	From	To	Name of the Conference / Workshop
1.	Prof. Yogendra Kumar Mishra Professor	Smart Materials, Mads Clausen Institute, University of Southern Denmark, Denmark.	05/03/2024	28/03/2024	SPARC - II
2.	Prof. Manoj Gupta Professor	Mechanical Engineering National University of Singapore (NUS), Singapore	22/02/2024	06/03/2024	SPARC - II
3.	Prof. Henrik Leion Professor	Chemistry and Chemical Engineering Department Chalmers University of Technology, Sweden	10/02/2024	18/02/2024	SPARC - II
4.	Dr. Rajender S. Varma Senior Scientist	Center for Environmental Solutions and Emergency Response, U.S. Environmental Protection Agency, Cincinnati, USA	16/10/2023	20/10/2023	GIAN - III
5.	Dr. Alfred J. Kalyanapu Associate Professor	Department of Civil and Environmental Engineering at the Tennessee Technological University, Cookeville, Tennessee, USA	10/07/2023	21/07/2023	GIAN - III
6.	Prof. Sivakumar Manickam Professor	Chemical Engineering, Universiti Teknologi Brunei (UTB), Brunei	27/06/2023	01/07/2023	GIAN - III

Consultancy

S.No.	Investigators	Title of the Project	Funding Agency	Grant Value (INR in lakhs)
CHEMICAL ENGINEERING				
1.	Prof. Manohar Kakunuri	Development of high performance electrolytes	Tatva Chintan Pharma Chemical Ltd	11.9
ELECTRICAL ENGINEERING				
2.	Prof. B L Narasimharaju, Prof. N Viswanathan, Prof. A.V Giridhar	Proof checking of designs and drawings of MEP Services in the project – Construction of permanent campus for Indian Institute of Petroleum and Energy (IIPE), Visakhapatnam, AP	KPC Projects Ltd, Hyderabad	8.27
3.	Prof. B L Narasimharaju, Prof. N Viswanathan, Prof. A.V Giridhar	Vetting of EM design & drawings pertaining to TAMAS MVS, Rewa Madhya Pradesh	NCC Limited, Warangal	1.15
MECHANICAL ENGINEERING				
4.	Prof. Jaya Krishna Devanuri	Simulations of lithium-ion battery pack for effective thermal management (Consultancy project)	AACCENOS Solutions Pvt. Ltd., Chennai.	6.49
5.	Prof. Jaya Krishna Devanuri	Proof reading/vetting of HVAC drawings, heat loads (Consultancy project)	Satya Illindra Engineers, Hyderabad	0.41

6.	Prof. Prasanth Anand Kumar Lam	Experimental analysis and development of correlations for Natural Convection heat exchangers of domestic refrigerators	Whirlpool Corporation	8.02
7.	Prof. Anant Kumar Rai	Sediment Monitoring and Budgeting in Flames 2, 110 MW Operational Hydro Project in Sikkim	Statekraft Private Limited	3.00
8.	Prof. Shivraman	Manufacture and supply of waam ring of 2319 ring	VSSC	2.00



Research Scholars' Confluence is the Annual research scholars' day of the National Institute of Technology Warangal, and it was held on 17 February 2024. Prof. Indranil Manna, Vice Chancellor, BITS Mesra Ranchi was the Chief guest and addressed the gathering with a topic entitled "Science - Engineering - Technology Innovation and Synergy". Scholars from all the departments participated in the event and 158 scholars showcased their research through poster presentation. Twenty-nine scholars from all the departments were given awards for best poster (winner and runner) presentation.



Centre of Excellence for "Digital Manufacturing and Automation" (a joint initiative of National Institute of Technology Warangal and Siemens) was inaugurated on 17th February 2024 by Prof. Indranil Manna, (Former Director IIT Kanpur). The Centre is established in the theme area of "Industry 4.0 and Digitalization" to facilitate R & D training. The Centre strives in supporting budding entrepreneurs from product ideation to designing the digital twin of the manufacturing system and verifying its working through the smart factory lab. It is a multidisciplinary center with 13 laboratories namely, Product Design, Advanced Manufacturing, Additive Manufacturing, IoT, Mechatronics, Robotics, CNC Machines, and Automation lab. The Centre focuses on providing skill development opportunities for academia and industry.

Research Publications

Department	Publications			
	Journals	Conferences	Books	Chapters in Books
Biotechnology	65	28	04	36
Chemical Engineering	60	-	-	12
Chemistry	67	01	-	06
Civil Engineering	111	56	5	40
Computer Science Engineering	68	71	-	-
Electrical Engineering	44	61	-	13
Electronics and Communication Engineering	49	29	-	-
Humanities and Social Sciences	02	-	-	-
Mathematics	76	09		04
Mechanical Engineering	203	77	3	16
Metallurgical and Materials Science Engineering	44	-	-	-
Physics	109	33		11
School of Management	15	1	1	2
Centre for Sports Activities (Department of Physical Education)	7	-	-	-
Total	920	366	13	140

Publication details can be accessed at https://nitw.irins.org/

Centre for Innovation and Incubation

The Center for Innovation and Incubation (CII) is a G+2 building, with a floor space of approx. 30,000sq ft. The mission of the center is to "promote innovations leading to new processes, products, design and technologies in collaboration with industry and thereby facilitate application of knowledge to society". The following are the objectives of the center

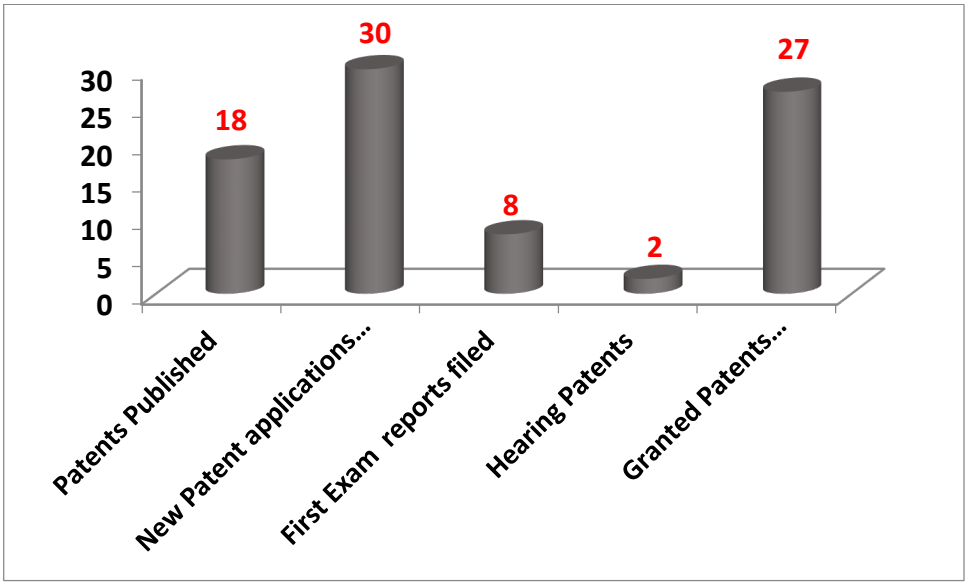
- To promote greater industry - academic interaction, by inviting industries to set up their research labs at this center and carry out their research projects using the talent on the campus.
- To encourage the first-generation entrepreneurs desirous of R&D partnership with NIT Warangal or otherwise to establish their research labs at this Centre.
- To promote innovation projects of B.Tech and M.Tech students by providing appropriate facilities, infrastructure and financial assistance as per the norms of the Institute.
- To facilitate the "on campus interaction" between the scientists of industries and faculty and students of NIT Warangal in order to enable orientation of R&D activities of NIT Warangal to potential needs of industry.

NIT Warangal being a premier technical institution plays a vital role in the process of technology entrepreneurship by offering a variety of services through CII in the area of startup creation, business incubation, easy access to capital and knowledge access with new and innovative ideas. Moreover, emphasis has also been given by the Institute towards entrepreneurial focused education by providing entrepreneurship development and venture creation as elective courses for developing entrepreneurial competencies. Further, various support mechanisms were also provided in the form of structured mentorship programs, short training to build the confidence of students to convert ideas to innovation and startup establishment. Incubation facilities are also open for local startups in and around as social responsibility at minimal expenses, thereby contributing significantly in promoting the entrepreneurship culture in Institutes and within the country.

Startups

Student startups are current requirements and provide a great opportunity in market expansion and job creation. Startup policy of NIT Warangal targets to nurture and encourage entrepreneurship among students and young faculty to benefit from GOIs 'Startup India' and 'Make in India 'programs. Students are encouraged to participate in idea generation in prototype events and the funding is provided to procure the hardware required through TEQIP-III.

Patents Data



Technology Transfer

S.No	Name of the faculty	Title of the Technology	Organization
1.	Prof. Sonawane Shirish Hari,	Constructive Design And Fabrication Of Polymer Electrolyte Membrane (PEM) Fuel Cell Stack And Its Components	Innovative Filtrex Surat
2.	Prof. Sonawane Shirish Hari, CH	The Nanocomposite Coated Ceramic Membrane and Hydrodynamic Cavitation Based Hybrid Technique For The Degradation Of Industrial Effluent And Thereof	Innovative Filtrex Surat

International Conferences Organized



International Conference on New Frontiers in Chemical, Energy, and Environmental Engineering (INCEE-2023) 24th Nov to 25th Nov 2023

Department of Chemical Engineering



Second International Conference, CoCoLe 2023, Warangal, India, 29th – 31st August 2023

Department of Computer Science and Engineering



2nd International Conference on Advanced Communications and Machine Intelligence (MICA), 30th - 31st October 2023
Department of Computer Science and Engineering



International Conference on Sustainable Power and Energy Research 2024 (ICSPER-2024)
1st -3rd March 2024
Department of Computer Electrical Engineering



2nd International Conference on Advances in Minerals, Metals Materials held on
22nd Sep - 23rd Sep 2023
Department of Metallurgical and Materials Engineering



International Conference of Emerging Multifunctional Materials and Devices for Sustainable Technologies (IEMDST-2024) 4th &5th July 2024
Department of Physics



Indian Society Of Theoretical and Applied Mechanics (ISTAM) – 2023
7th -9th December, 2023
Department of Mathematics

Research Advisory Committee



Prof. Bidyadhar Subudhi
Director, NITW & Chairman,RAC



Dr. Tata Narasinga Rao,
Director, ARCI, Hyderabad



Dr. Ramanuj Narayan
Director CIMMT, Bhubaneswar



Prof. Amit Prashant,
Civil Engineering, IIT Gandhinagar



Prof. Santosha K Dwivedy,
Mechanical Engineering IIT Guwahati



Prof. Sudip Misra,
Computer Sci. and Engg. IIT Kharagpur



Prof. M. Chandrasekhar,
Director, IIM Visakhapatnam



Prof. Vivek Agarwal,
Electrical Engineering, IIT Bombay

R&D Conclave and Industry Outreach

NIT Warangal organized a Research and Development (R&D) conclave and Industry Outreach program on December 15-16, 2023. The event was inaugurated by Prof. Bidyadhar Subudhi. Prof. Tata Narsinga Rao, Director ARCI, provided an overview of Translational Research.





During the event, Prof. Bidyadhar Subudhi, along with Dr. Ramanuj Narayan, Director CSIR MMT, Bhubaneswar, Dr. S. Glory Swarupa, Director General NIMSME, and Dr. J. R. Joshi, Project Director at DRDL, presented a clear roadmap for how NITs can showcase their innovations to industry partners. Various stalls displayed R&D innovations, allowing industry experts to engage with academia and express interest in adopting these technologies.









Showcasing Technology Transfer at IInvenTiv – 2024 (19-20th January 2024, IIT Hyderabad)

National Institute of Technology Warangal proudly showcased indigenous technology, “Hybrid Wastewater Treatment System for Textile Effluent Treatment”, under the Sustainable Technology category during the prestigious IInvenTiv-2024 event that aims to showcase the impact of research and innovation carried out by Higher Education Institutions. The event was inaugurated the honourable Education Minister, Shri Dharmendra Pradhan. NIT Warangal proudly showcased the indigenous technology, “Hybrid Wastewater Treatment System for Textile Effluent Treatment”, under the Sustainable Technology category.



Institute Lecture Series



Prof. Partha Pratim Chakrabarti
IIT Kharagpur

Topic: Effective Ph.D. Supervision



Prof. Santanu Bhattacharya
Director, IISER Tirupati

Topic: Multifarious Aspects of Effective Ph.D. Supervision



Prof. Ashok Jhunjhunwala
President of IITM Research Park.
Topic: Making Start-ups successful in a university environment



Dr. Tapan Nayak
University of Houstom, USA
Topic: Recreating the Big Bang conditions at the CERN Large Hadron Collider



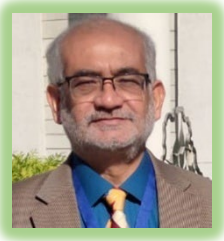
Prof. Subhasish Day
Head, Civil Engineering,
IIT Jodhapur
Topic: Hydrodynamics of Sediment Transport: Grain Scale to Continuum Scale



Prof. Manju Sarma
Deputy Director, National Remote Sensing Centre, ISRO, Hyderabad
Topic: ISRO's Earth Observation Satellites Data and Women in Space Technologies



Dr. Nettem Venkateswarlu Choudary
Distinguished Scientist, CSIR-IICT Hyderabad
Topic: Energy Transitions - Challenges and Opportunitie



Prof. Indranil Manna
President, INAE
Vice-Chancellor, BIT Mesra, Ranchi
Topic: Science-Engineering-Technology Innovation and Synergy



Prof. Ajay Kumar Dalai
University of Saskatchewan, Canada
Topic: Clean Sustainable Energy Production from Biomass for Pollution Abatement Using Bioprocessing Technologies



Prof. Sarma V. Pisupati
Pennsylvania State University, USA
Topic: Path Towards Net-Zero Carbon Emissions: Challenges and Research Needs



Prof. Devang Khakhar
Indian Institute of Technology Bombay
Topic: Fundamentals of Granular Flow, Mixing and Segregation



Dr. Komal Kapoor
Nuclear Fuel Complex (NFC)
Chairman, NFC Board
Topic: Manufacturing Capability to Build Nuclear Power Base



Shri. Sanjeev Kumar Varshney
Department of Science & Technology
Topic: International Science and Technology Cooperation



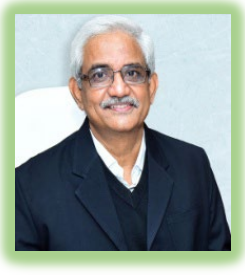
Prof. S. K. Sarangi
FNAE, Professorial Fellow, IIT Bhubaneswar.
Topic: Cryogenics for Electrical Engineering



Dr R N Sankhua,
Ph.D., FIE, CE(I), Chief Engineer, South,
Ministry of Jal Shakti, Govt of India
Topic: Envisioning Perspicuous Digital Hydraulic Infrastructure in ILR



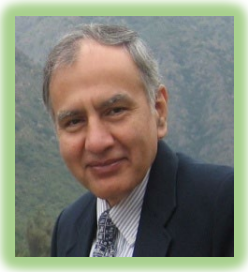
Mr. Vineet R Bhatt
Topic: It Takes More to Building a Successful Career Than Just Earning a Degree



Prof. K. Umamaheshwar Rao
Director, NIT Rourkela
Topic: National Education Policy - 2022



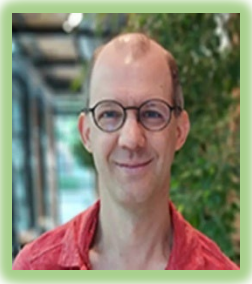
Prof. Ying-Chih Liao
Chemical Engineering, National Taiwan University, Taiwan
SPARC Resource Person: Modelling and Analysis of Reactant Fuels, Droplet Break-up, Inkjet Printing and Ink Formation



Dr. Rajender S. Varma
Center for Environmental Solutions &Emergency Response, U.S.A
Topic: Nonconventional methods in Organic Synthesis



Dr. Alfred J. Kalyanapu
Tennessee Technological University, Tennessee, USA
Topic: Water Resources in the 21st Century: Dealing with Challenges & Making Advances towards Sustainability



Prof. Henrik Leion
Chemistry and Chemical Engineering Department Chalmers University of Technology, Sweden
SPARC Resource Person: Looping Technologies for Sustainable Power and Hydrogen Production



Prof. Manoj Gupta
University of Singapore
SPARC Resource Person: Advanced Composite Materials



Prof. Yogendra Kumar Mishra
University of Southern Denmark, Denmark.
SPARC Resource Person: Fabrication and Modelling of Hybrid-nanotetrapod structures for Future Optoelectronic Technologies

MoUs Signed

Collaborator / Partner



Prof. Bidyadhar Subudhi, Director, NIT Warangal and Prof.Goutam Sutradhar, Director, NIT Jamshedpur exchanging the MoU





भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad



विद्याधनं सर्वधन प्रधानम्

IIT JAMMU



विद्या परं दैवतम्

IIM

VISAKHAPATNAM



IIITDM

KURNOOL




Technologies
SEMINAR AT NIT, WARANGAL
FEBRUARY 13, 2024











L&T INSTITUTE OF PROJECT MANAGEMENT

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INTERNATIONAL RELATIONS & ALUMNI ACTIVITIES

1) International Alumni Meet

NIT Warangal Alumni Association (NITWAA) has organized an International Alumni Meet at Kathmandu, Nepal from 15th to 18th March 2024 with around 100 alumni, accompanied by their families and NITW faculty. Along with Alumni meet, 26th Executive Council Meeting was also held during this period.

2) Distinguished Alumnus Awards (DAA)

The following are the awardees of **"Distinguished Alumnus Awards for the year 2023"**

Sl No	Photo	DAA Category	Name of the Awardee	Present Position
1.		Professional Excellence – Academic and Research	Dr Kaushik Kumar B.Tech (Mech) - 1990	Professor, Department of Mechanical Engineering, Birla Institute of Technology, Mesra, Ranchi, Jharkhand
2.		Professional Excellence – Industry / Corporate	Dr. Srinivas Mantrala B.Tech (Civil) - 1986	Head, Fixed Infrastructure, Nacala Logistics Corridor, Vulcan International, Mozambique
3.		Professional Excellence – Industry / Corporate	Shri. VNR Nayudu B.Tech (MET) - 1993	Chief General Manager, India Government Mint Hyderabad
4.		Public Service – Public Administration	Shri. Muthyala Raju Revu B.Tech (EEE) - 2002	Principal Secretary to Andhra Pradesh State Government
5.		Public Service – Social & Community Service	Shri. Raja Srinivasa Rao Aita B.Tech (Civil) - 1994	Lead Project Light-Abu Dhabi National Oil Company, Abu Dhabi (ADNOC Offshore)

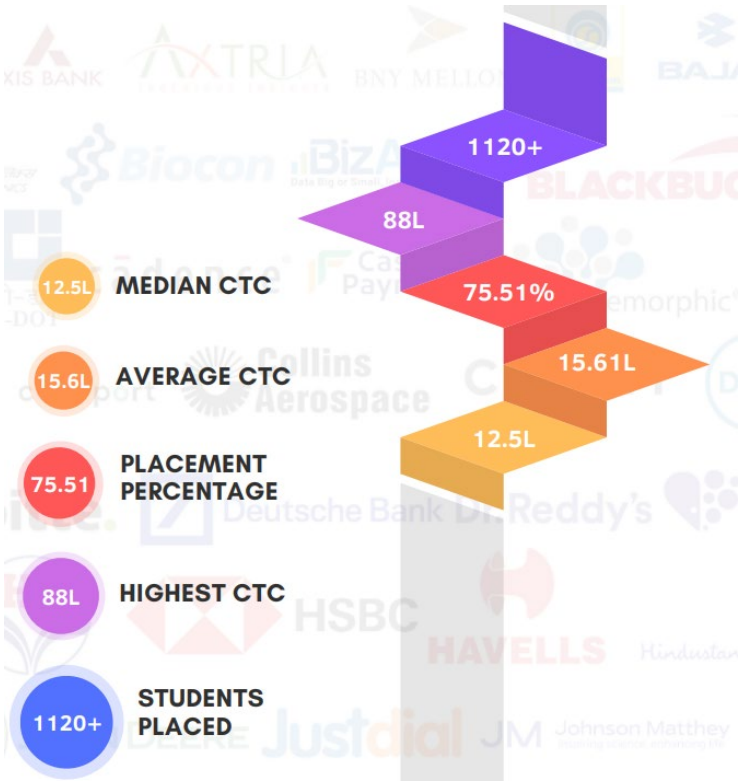
PLACEMENT REPORT

Centre for Career Planning and Development

Despite a challenging economic climate with potential recessionary effects, NIT Warangal's Centre for Career Planning and Development (CCPD) delivered a successful placement season in 2023-24. As of now end of June, a remarkable **75.5%** of eligible students secured placements, showcasing the Institute's commitment to student success. A total of 1128 students out of the eligible 1483 are recruited by reputed companies across the globe. Especially, for undergraduate students higher percentage of 8% is achieved as 615 student's bagged placement out of 746 candidates. An impressive number of 270 internship offers were received thus far by the pre-final year students across all the departments. The academic year 2023-24 saw a footfall of close to 300 companies, of which 30% were visiting for the first time. Globally reputed companies such as Microsoft, Oracle, Mastercard, Goldman Sachs, DE Shaw, Salesforce, Citibank, Caterpillar, Tata motors, L&T, BPCL etc. participated in this year's recruitment session. The highest package of Rs. 88 lakhs was offered by "**Thought spot**" company to Mr. Ravi Shah from ECE department. A total of 12 number of students from CSC, ECE, ME, EEE were offered 68 lakhs by Oracle company alone. Following the ester-years footsteps, IT sector showed dominance in hiring fresher graduates in AY 2023-24 by contributing close to 54% of total FTE offers from all the programs. IT roles like Software Engineer, Data Scientist, Data Analyst and others were found to be most in-demand.

The academic year 2023-24 saw a footfall of close to 300 companies, of which 30% were visiting for the first time. The CCPD's has actively taken many initiatives through rigorous training courses and collaborative programs for students catering to all the departments. Courses were offered to enhance students' communication, practical domain knowledge and prepare them for interviews based on current recruitment scenario. In addition, in collaboration with departments and outside organizations, CCPD hosted programs like communication skill-building workshops, industrial visits and internships. NIT Warangal's placement record in 2023-24 demonstrates the Institute's unwavering commitment to its students' career development. By continuing to provide excellent education, fostering industry partnerships, and equipping students with essential skills, the CCPD is well-positioned to ensure continued success in the years to come.

Placement Statistics



CENTRAL LIBRARY

Introduction

The Central Library at the National Institute of Technology, Warangal, established along with the Institute's inception, is located adjacent to the administrative block. The library is housed with a plinth area of 4000 Sq. Mtrs (Ground + 2 floors), which includes stack rooms (for the textbooks), reading halls (reference section), current journals/periodicals area (print version), newspaper section, video lecture halls, digital library, book banks, separate reference area (TEQIP hall). The Central Library supports the regular academic activities of the Institute (teaching and research by providing necessary books for the students, faculty and non-faculty of the Institute. It also disseminates information according to the requirements of the users of the Institute.

Learning Resources (including e-resources):

The Central Library has a wide range of resources on Engineering, Technology, Sciences, Management and Humanities & Social Sciences.

Sl. No.	Collection	Quantity
1.	No. of Books	1,83,697
2.	No. of e-Books	350
4.	No. of e-journals subscribed	8977
5.	No. of Print Journals	17
6.	No. of Books in Book Bank (including S.C. & S.T. Book Bank)	30,445

The Central Library is a member of the e-ShodhSindhu consortium and subscribes to online journals through the e-ShodhSindhu consortium and the Institute funds. Through the MyLOFT App, research scholars and faculty members can access e-resources subscribed by the NITW anywhere and anytime. The details of the e-journals ~~subscribed by NIT Warangal~~ are as follows:

e-journal Subscription and databases:

Sl.No.	Name of the Database / Publishers	No. of Journals
1.	ASTM Standards + Digital Library	Database
2.	Elsevier Science Direct	1,112
3.	Emerald e-ShodhSindhu	309
4.	Royal Society of Chemistry	56
5.	Sage - Materials Science & Engineering Collection	85
6.	SciFinder Scholar	Database
7.	Springer Link	1,714
8.	Taylor & Francis	349
9.	American Chemical Society Journals	80
10.	IEEE Online	595
11.	MathSciNet	Database
12.	John Wiley & Sons Ltd	11
13.	IOP Journals	4
14.	World Scientific e-journals	2
15.	AIP Journals	2
16.	SIAM e-journals	2
17.	ICE Publishing E-Journals	2
18.	NRC Research Press Journals	2
	Total	**4325**

e-Resources Provided by INFLIBNET through ESS Consortium:

Sl.No.	Name of the Database / Publishers	No. of Journals
1.	ACM Digital Library	1153

2.	ASCE Journals Online	36
3.	ASME Journals Online	36
4.	JGate Plus	Abstract Database
5.	JSTOR	3,165
6.	Oxford University Press	262
7.	Web of Science	Citation Database
	Total	**4652**

Procurement of Print Books F.Y. 2023-24:

Central Library procured 1432 Print books for the financial year 2023-24 as per the recommendations of the Heads of Departments.

Library Statistics:

Total built-up area	4,000 Sq. Mts
Library Staff Members	12
Number of Books	1,83,697
Reprographic facility	Yes
Number of seats in reading space	472
Annual Budget	5 Crore (Approx.)
Timing during working days	8:45 a.m. to 9:00 p.m.
Timing on Saturdays & Sundays	9:00 a.m. to 5:00 p.m. (Closed on National Holidays)

Digital Library:

The Central Library has acquired and installed 60 new computers with higher configurations (32 RAM and 1 TB HDD) for the Digital Library for the benefit of faculty and students.

Support to students for self-learning activities:

- Central Library conducts user orientation programs to the newly joined faculty and students about the facilities available in the Library.
- Central Library has been Wi-Fi enabled to provide wireless access to the Internet. Users are welcome to use their laptops in the library.

Remote Access Service:

Central Library, introduced a new service called "Remote Access Services - MyLOFT (My Library On Fingertips)" to benefit Research Scholars and Faculty. MyLOFT is a mobile App. Through MyLOFT research scholars and faculty can access e-resources subscribed anytime.

Central Library organized programs:

- Central Library has organized a Workshop on "Research Ethics and Library Resources" on 17th August 2023 from 10:00 a.m. to 2:00 p.m. for the benefit of Faculty, P.G. and Ph.D. Students.
- Central Library, has organized the National Conference on "Emerging Library and Information Technologies" (NCELITE-2024) on 26th and 27th April 2024. More than 100 delegates from across India participated in the conference.



Faculty Information System:

The Central Library has implemented a new "Faculty Information System" under the Indian Research Information Network System (IRINS) to showcase the academic and research activities of the Institute faculty members and provide an opportunity to create a scholarly research network.

The NITW- Indian Research Information Network System (IRINS) will support integrating the existing research management system such as the H.R. system, course management, grant management system, institutional repository, Open and commercial citation databases, scholarly publishers, etc. This will be integrated with academic identities such as ORCID ID, Scopus ID, Research ID, Microsoft Academic ID, and Google Scholar ID for ingesting scholarly publications from various sources. This Faculty Information System can become the source for the NIRF, THE and other international raking systems.

Institutional Repository:

The Central Library has created the Institutional Repository to showcase, organize, share, and preserve the scholarly output of the National Institutes of Technology Warangal. The Repository is designed to facilitate scholarly communication by providing access to the knowledge resources created by NITW and preserving the same for future generations of scholars. The Central Library is proud to host and maintain the repository and facilitate access to the knowledge resources of the NITW community.

http://ir.library.nitw.ac.in:8080/jspui/

Shodhganga:

Full-text of Ph.D. theses are uploaded on the Shodhganga: A Reservoir of Indian Theses @ INFLIBNET. NITW Theses may be accessed from the below link:

https://shodhganga.inflibnet.ac.in/handle/10603/349258

Best Practices:

The Central Library, follows the best practices such as

- Circulation of the information brochure to the newly joined students of the students, faculty, and staff.
- We are conducting user orientation programs for the newly joined faculty and students about the facilities available in the Central Library.
- Information display and notifications by the Institute and other Institutes of the country.

Library expenditure on books, magazines/journals and miscellaneous contents:

Year	Expenditure (in Rs.)					
	Books	Magazines/ Journals (Print subscription)	e-Journals & Databases	Equipment/ Furniture	Misc. Exp.	Total
2023-24	24,82,387.00	16,398.00	4,34,47,494.68	15,66,278.00	19,26,760.00	4,94,39,317.68
2022-23	32,39,222.00 (e-Books)	63,698.00	4,30,76,587.00	57,92,286.00	4,82,704.00	5,26,54,497.00
2021-22	2,75,776.00	89,100.00	3,67,57,506.40	3,46,920.00	3,56,899.00	3,78,26,201.40
2020-21	26,76,732.00 (e-Books)	43,580.00	2,91,94,331.00	23,68,286.00	1,45,233.00	3,44,28,162.00
2019-20	Nil	83,761.00	2,84,25,105.00	6,08,804.00	1,63,732.00	2,92,81,402.00

DEPARTMENT OF BIOTECHNOLOGY

The Department of Biotechnology at NIT Warangal is a premier center for innovation, research, and academic excellence, offering B.Tech, M.Tech, and Ph.D. programs in Biotechnology. Department of Biotechnology was established in 2006 with the B.Tech in Biotechnology program under the TEQIP initiative. The department has continually expanded its academic offerings. The M.Tech program was introduced in 2021, and the Ph.D. program began in 2008. The curriculum is meticulously crafted to meet the ever-evolving demands of the Biotechnology industry and is regularly updated to align with the latest advancements. With 20 dedicated faculty members specializing in diverse domains of Biotechnology, the department fosters a vibrant academic and research environment. The department has successfully executed numerous research projects and currently manages 10 ongoing research projects, funded by prominent agencies like DBT, DST, ICMR, and CSIR, under the Government of India. The Department actively supports Research Associates through funding from various agencies and also undertake consultancy projects for industries, bridging the gap between academia and real-world applications. Our students have been recipients of prestigious fellowships and internships, including: Khorana Scholars Program, DAAD Fellowship, MITACS Fellowship and INSA Fellowship.

Publications	Journals	65
	Conferences	28
	Books	04
	Book Chapters	36
Academic Programs	UG	01
	PG	01
	PhD	01
Degrees Awarded	UG	70
	PG	20
	PhD	09
FDP/conferences Organized		01
Number of Staff		07

Faculty and their Specializations:

S. No.	Name and Qualifications		Major Areas of Specialization
Professors			
1.		Prof. Korrapati Narasimhulu Ph.D (NIT Warangal)	Environmental Biotechnology, Modelling & Simulation of Bioprocesses, Biofuels & Bioenergy, Systems Biology
2.		Prof. R. Satish Babu Ph.D. (JNTU Hyderabad)	Bioprocess Engineering Environmental Biotechnology Modeling and Simulation of Bioprocesses Metabolic Engineering Bioinformatics

3.		Prof. Sreenivasa Rao Parcha Ph.D (JNTU Hyderabad)	Stem Cell Engineering, Downstream Processing and Enzyme Engineering
Associate Professors			
4.		Prof. Prakash Saudagar Head PhD (IIT Guwahati)	Molecular Cell Biology & Protein Biochemistry, Molecular Approach to Infectious Diseases, Molecular & Biochemical Parasitology
5.		Prof. Amitava Bandhu PhD (University of Calcutta)	Gene regulation in Mycobacteria, Protein Biochemistry, Structural dynamics of proteins
6.		Prof. Asim Bikas Das PhD (IIT Guwahati)	Computational Genomics, Network Systems Biology, AI and Precision Medicine
7		Prof. Onkara Perumal. P PhD (NIT Warangal)	Bioinformatics; Computational Biology; Functional Genomics; Metabolic Disorders
8.		Prof. Rama Raju. B PhD (NIT Warangal)	Metabolic Engineering, Biofuels and Biomaterials
9.		Prof. Urmila Saxena PhD (IIT Guwahati)	Statistical Analysis of Biological Data for Biomarker Identification; Medical Biosensors; Nanobiotechnology
10.		Prof. V. Kohila PhD (IIT Guwahati)	Protein Engineering, Immunology
Assistant Professors			
11.		Prof. Anbumathi P PhD (IIT Bombay)	Systems Biology, Disease Maps, Mathematical Modeling and Simulation of Biological Systems

12.		Prof. Ashish Prabhu PhD (IIT Guwahati)	Bioprocess engineering and Metabolic Engineering
13.		Prof. Chockalingam S PhD (IIT Guwahati)	Cancer biology; Cancer cell signaling; Cancer stem cell biology
14.		Prof. M. Jerold, PhD (NIT Calicut)	Biofuels & Bioenergy; Bioprocessing; Biosorption; Wastewater Treatment; Bio separation; Algal Biotechnology; Biopolymer; Biorefineries; Biomass Valor
15.		Prof. Perugu Shyam PhD (University of Hyderabad)	Bioinformatics, Systems biology, Cancer biology, Molecular Dynamics & Simulations, Drug Design and Discovery, Machine Learning.
16.		Prof. Priya P PhD (IIT Bombay)	Cell and molecular biology; epigenetics
17.		Prof. Ratnaprabha D PhD (Kakatiya University)	Plant Biotechnology
18.		Prof. Soumya Lipsa Rath, PhD (IIT Madras)	Computational Biophysics, Machine Learning
19.		Prof. Surajbhan Sevda PhD (IIT Delhi)	Environmental Bioprocess, Bio electrochemical System
20.		Prof. Thyageshwar Chandran PhD (IISc Bangalore)	Structural Proteomics; Molecular Dynamics of Macromolecules; Molecular Biophysics

PhD Degree Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)
1.	Dipanwita Maity	Functional and in-silico characterization of Mce1R of *Mycobacterium tuberculosis*	Amitava Bandhu and Parcha Sreenivasa Rao
2.	Md Momina Shanwaz	Invitro and Insilico analysis of purified biologically active compound from the *Vitex negundo.*	Perugu Shyam
3.	Sana Munquad	Development of Artificial Intelligence Models Based on Genomics Data for Precision Therapy of Glioma	Asim Bikas Das
4.	Sarvepalli Mounika	Production, purification and characterization of siderophores from marine bacteria and their application in heavy metal chelation and silver nano particles synthesis	Korrapati Narasimhulu

DEPARTMENT OF CHEMICAL ENGINEERING

The Department was established in the year 1964. The department offers a diverse array of academic programs, including B.Tech., M.Tech., and Ph.D., designed to meet industry demands and attract top talent. The accomplished faculty, blending experience and youth, excel in teaching and groundbreaking research. The laboratories equipped with state-of-the-art facilities support experiential learning and industry-aligned curriculum. The alumni of the Department hold key positions globally, reflecting our commitment to shaping influential leaders. The Department reached milestones like our Golden Jubilee in 2014–15 and hosted renowned international conferences. The department garnered accolades over the years, including a prestigious 5-year accreditation from the National Board of Accreditation (NBA) for the B.Tech. program in 2015, subsequently another 6-year accreditation in 2022. The M.Tech. program also earned a similar 5-year accreditation in 2016. The department has evolved from an initial intake of 30 students to the current capacity of 126 in B.Tech, with dynamic specializations in tune with industry trends in M.Tech and a well-funded PhD program. The Department supports PMRF fellowships, QIP, industry-sponsored PhD scholars, and post-doctoral fellows. The state-of-the-art building, complete with green ambience and aesthetic landscaping, stands as a symbol of architectural elegance.



Publications	Journals	60
	Conferences	-
	Books	-
	Book Chapters	12
Academic Programs	UG	01
	PG	04
	PhD	01
Degrees Awarded	UG	109
	PG	15
	PhD	06
FDP/conferences Organized		04
Number of Staff		07

Faculty and their Specializations:

S. No.	Name and Qualifications		Major Areas of Specialization
Professors			
1.		Prof. P.V. Suresh, Head Ph.D. (IIT Madras)	Fuel cells, Chemical Looping Combustion - CO_2 capture technology, Sustainable Hydrogen generation, Computational Fluid Dynamics, Flow Batteries, Modelling and Simulation
2.		Prof. Sonawane Shirish Hari Ph.D. (North Maharashtra University)	Acoustic and hydrodynamic cavitation; Nanomaterials for energy storage devices, Wastewater, Advanced polymeric coatings, and hybrid membrane processes; Process intensification using microreactors.
3		Prof. A. Venu Vinod Ph.D. (NIT Warangal)	Fluidized bed bioreactors; Biological Wastewater Treatment; Fluidized bed Bioreactors; CFD; Heat Transfer using Nanofluids; Spout-fluid beds.

4.		Prof. A. Sarath Babu Ph.D. (NIT Warangal)	Modeling, Simulation and Optimization; Process Simulation using Aspen; Reaction Engineering; Thermodynamics; Energy management and CO_2 Capture
5.		Prof. Anand Kishore Kola Ph.D. (NIT Warangal)	Environmental Engineering, Energy, Advanced Separation processes, Modeling, Simulation and Optimization, Biochemical Engineering, Wastewater treatment, Membrane separations, Reactive distillation, Inverse fluidization, Pharmaceuticals and nanotechnology
6.		Prof. Srinath Suranani Ph.D. (NIT Warangal)	Thermal conversion of solid waste, biofuels, Catalysis, Process Intensification, Process modelling and simulation, Nanotechnology, Micro reactors.
Associate Professors			
7.		Prof. Vidyasagar Shilapuram, Ph.D. (IIT Madras)	Chemical Engineering and allied areas
8.		Prof. Murali Mohan Seepana Ph.D. (IIT Delhi)	Energy Storage and Energy Conversion Technologies: Fuel Cells and Batteries; Wastewater Treatment; Membrane Separations
9.		Prof. G. Uday Bhaskar Babu Ph.D. (IIT Kharagpur)	Modelling and Simulation; Process Intensification; Process Control: Data-driven control, Factional order modelling and control, Fuel cell - Modelling and Control strategies, Wastewater treatment
10.		Prof. V. Ramsagar Ph.D. (IIT Delhi)	CO_2 Capture Technologies – Calcium Looping & Chemical Looping Combustion, Green Energy Generation Technologies, Chemical Process Scheduling, Process Modelling & Simulation, Hybrid Separations, Heat Exchanger Networks
Assistant Professors			
11.		Prof. Raghu Raja Pandiyan K Ph.D. (IIT Kharagpur)	High Performance Thermoset Composites; Liquid Composite Moulding Processes; Materials Process Modeling and Simulation; Materials Performance Analysis; ASPEN Process Simulations; Bio-Polyol Hybrid Heat Transfer Nano-Fluids; Metal Nano Particles Biosynthesis.

12.		Prof. Rajmohan K. S. Ph.D. (IIT Madras)	Nanomaterials & Membranes for Energy & Water, High-Temperature Fuel Cells, Redox Flow Batteries & Advanced Metal-air Batteries, Hydrogen Production & Storage, Biochemical Engineering, AOP, Hydrodynamic cavitation, Hybrid membrane processes, CO_2 Reduction into hydrocarbons.
13.		Prof. Manohar Kakunuri PhD (IIT Hyderabad)	Energy Storage devices (Li, Na, Al-ion Batteries & Capacitors), Electrospinning, Photo lithography & Graphitization, Hard & Graphitic carbon, Carbon fibers and composites
14.		Prof. Praveen Kumar Bommineni Ph.D. (IISc Bangalore)	Nucleation, crystallization, and self-assembly of colloidal particles, phase diagram calculations using computer simulations.
15.		Prof. Anjana P. A. Ph.D. (NIT Surathkal)	Heterogeneous catalysis, High-temperature oxidation reaction, Solid Oxide Fuel Cells, Waste-to-energy
16.		Prof. Naresh Thota Ph.D. (NUS Singapore)	Reactive Distillation, Process Modelling and Simulations, Water Treatment Process Control, Molecular Simulations, Self-assembly, Amphiphilic Peptides, Drug Delivery, Controlled Release Cargos, Water Desalination.
17.		Prof. P. Sampath Kumar Ph.D. (University of Hyderabad)	Energy & Fuels, Gas Sensors, Waste to Energy, Safety Engineering, Energy Storage Devices.
18.		Prof. Leela Manohar Aeshala Ph.D. (IIT Guwahati)	Electrochemical Reduction of CO_2, Polymer Electrolytes, Clean Energy, Green Hydrogen Production
19.		Prof. Ramya Araga Ph.D. (IIT Hyderabad)	Synthesis of Nanomaterials, Composites; Advanced Oxidation Processes (AOPs), Photocatalysis, Wastewater Treatment, Energy Storage Devices.
20.		Prof. Phani Kumar Pentyala Ph.D. (IIT Kharagpur)	Computational Catalysis, Computational Materials Science, Carbon Capture, Hybrid-MOF Materials, High-entropy Alloys, Machine Learning in Material Properties Finding.
Adjunct Professors			
1.		Dr. Tata Narsing Rao Former Director, ARCI Hyderabad	Nanotechnology, Materials science, Energy materials, Li ion Batteries

2.		Prof. Sarma V. Pisupati Co-Director, Penn State University, USA	Chemical kinetics, mass, and heat transfer in combustion processes; CFD modeling of combustion and air pollution systems; oxy-fuel combustion; coal processing and mineral matter transformations in gasification; coal, biomass, and petroleum coke gasification and recovery of rare earth and critical elements from secondary sources and industrial wastes
3.		Prof. Ajay K Dalai Professor, University of Saskatchewan, USA	Nanocatalysis, chemical reaction engineering, bio and petro-fuels, renewable energy, hydroprocessing, gas-to-liquid and environmental technologies

PhD Degree Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)
1.	Anita Zade Dnyanba	Development of an Effective Multi-Objective Optimization Strategy for the Manufacturing of Resin Transfer Moulded Composite Parts	Raghu Raja Pandiyan K
2.	Irshad U Khan	Developed of Non-Nobel Electrcatalysts for Quinone Based Organic Redox Flow Battery	Murali Mohan Seepana, K S Rajmohan
3.	Kiran Donthula	Development of nanostructured Mxene-based electrodes for supercapacitor applications	Manohar Kakanuri

DEPARTMENT OF CHEMISTRY

The Department of Chemistry was established in the year 1959. The Department offers chemistry course to most of the engineering branches and two years M.Sc. Chemistry with specialization in Organic and Analytical Chemistry. The department has been conducting cutting-edge research in contemporary topics of Organic, Inorganic, Physical and Analytical Chemistry. In the department, various state-of-the-art facilities such as 400 MHz NMR, HRMS, gas chromatography, HPLC, FTIR, UV-vis-NIR, fluorescence, electrochemical workstation, computational chemistry software, etc. are available. As a part of continuing education and outreach activities, department organized several national and international Conferences, seminars and workshops. In addition, department is actively involved in science popularization among the school children via Inspire programme and society. Most of the students are well placed in various companies and institutions with decent package.

The Department of Chemistry, NIT Warangal is growing from strength to strength while keeping pace with overall development of NIT Warangal. The Department has a team of faculty, graduated from IIT's, Central Universities and other premier Institutions of higher learning. The Department has good infrastructure and is equipped with the latest sophisticated analytical instruments. The Department has been offering two M.Sc. programmes with the specializations in: i) Organic Chemistry and ii) Analytical Chemistry. The faculty members are actively engaged in research and consultancy.

<table>
<tr><td colspan="2" rowspan="4">
</td><td rowspan="4">Publications</td><td>Journals</td><td>67</td></tr>
<tr><td>Conferences</td><td>-</td></tr>
<tr><td>Books</td><td>-</td></tr>
<tr><td>Book Chapters</td><td>12</td></tr>
<tr><td colspan="2" rowspan="3"></td><td rowspan="3">Academic Programs</td><td>UG</td><td>01</td></tr>
<tr><td>PG</td><td>04</td></tr>
<tr><td>PhD</td><td>01</td></tr>
<tr><td colspan="2" rowspan="3"></td><td rowspan="3">Degrees Awarded</td><td>UG</td><td>109</td></tr>
<tr><td>PG</td><td>15</td></tr>
<tr><td>PhD</td><td>06</td></tr>
<tr><td colspan="4">FDP/conferences Organized</td><td>01</td></tr>
<tr><td colspan="4">Number of Staff</td><td>07</td></tr>
</table>

Faculty and their Specializations:

Sl. No.	Name and Qualifications		Research Interests
Professors			
1.		Prof. D. Kashinath, Head Ph. D. (IIT Bombay)	Synthesis of biologically active compounds, Development of Synthetic Methods, Green Chemistry

2.		Prof. K. V. Gobi Ph.D. (MKU, Madurai), D.Engg. (TIT, Japan)	Electrochemical Biosensors, Supercapacitors, Fuel Cell Electrocatalysts
3.		Prof. P. V. Srilakshmi Ph.D. (IICT, Hyderabad)	Bioorganic Chemistry, Drug Delivery/Gene Delivery
4.		Prof. Vishnu Shanker PhD (IIT Delhi)	Nanostructured materials, Water Purification, H_2-generation, N_2-Fixation, CO_2 Reduction
5.		Prof. N. Venkatathri Ph.D. (NCL, Pune)	Materials Chemistry, Heterogeneous Catalysis, Biomaterials and Electrochemistry
Associate Professors			
6.		Prof. Santhosh Penta Ph.D. (NIT Warangal)	Organic Synthesis and Medicinal Chemistry
7.		Prof. Raghu Chitta Ph.D. (Wichita State University, Kansas, USA)	Solar Energy Harvesting Materials, and Fluorescent Chemosensors
8.		Prof. B. Srinivas Ph.D. (Univ. of Hyderabad)	Organic synthesis, Supramolecular chemistry, Crystal engineering, polymorphism
9.		Prof. K. Hari Prasad Ph. D. (IIT Kanpur)	Organic Synthesis, Carbohydrate Chemistry and Medicinal Chemistry
10.		Prof. S. Nagarajan Ph.D. (University of Madras)	Organic synthesis, Organic materials, Molecular self-assembly

Assistant Professors			
11.		Prof. M. Raghasudha Ph.D. (Osmania University, Hyderabad)	Ferrite based nanomaterials, Functional Magnetic Nanomaterials, magnetic nanocatalysis, Magnetic nanocatalysts for organic transformations, photocatalysis
12.		Prof. C. Jugun Prakash Ph.D. (IIT Bombay)	Medicinal inorganic and bio-analytical chemistry
13.		Prof. Ravinder Pawar Ph.D. (CSIR-CLRI)	Theoretical and computational Chemistry
14.		Prof. Mukul Pradhan Ph. D. (IIT Kharagpur)	Novel nanocomposite, Flexible thermoelectric device, Battery and supercapacitor, Oxygen reduction reaction, Photoelectrochemical hydrogen generation.
15.		Prof. Rajeshkhanna Gaddam Ph. D. (IIT Madras)	Nanoscience and Nanotechnology, Electrocatalysis H_2 production by electrolysis, Fuel Cells, Supercapacitors
16.		Prof. V. Rajeshkumar Ph.D. (National Chiao Tung Univ., Taiwan)	Sustainable Organic Synthesis and Metal Catalysis; Green & Mechanochemistry; Photocatalysis and Natural Product Synthesis; Synthesis of Bioactive Molecules for Biological Applications

PhD Degree Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)
1	Banda Prashanth Goud	Development of Ferrite based heterogeneous nanocatalysts for organic transformations	M. Raghasudha

DEPARTMENT OF CIVIL ENGINEERING

The Department of Civil Engineering was established in 1959, along with the setting up of the Regional Engineering College Warangal (RECW), the first among the chain of RECs established by the Government of India to provide state-of-art engineering education imbibed the spirit of national integration. The department offers comprehensive academic programs, including B. Tech in Civil Engineering, M.Tech in specialized fields such as Structural Engineering, Transportation Engineering, Geotechnical Engineering, Environmental Engineering, Water Resources Engineering, Construction Technology and Management, and Geoinformatics, as well as a robust Ph.D. program. Supported by a highly experienced faculty, the department emphasizes both fundamental and advanced aspects of civil engineering. Its state-of-the-art laboratories, including those for structural analysis, geotechnical studies, environmental engineering, fluid mechanics, and GIS-based computational modeling, facilitate cutting-edge research and practical learning.

The Civil Engineering Department, apart from Teaching and R&D, also does enormous amount of consultancy, which adds up to the institutional internal revenue generation and involves faculty and students in challenging field problems. The faculty of the Department are actively involved in sponsored projects and have prestigious projects like-SPARC, BRICS, IMPRINT, DST, SERB, DBT, ARDB to name a few. The Department takes pride in having conducted the highest number of GIAN and SPARC programs. The Civil Engineering Department has MoUs with highly reputed organizations like NAAC, NCCBM, WALAMTARI, SCCL, INVENTA, PSI, among others and has collaborations with several foreign universities and companies such as – Texas A&M, NCAR-Colorado, PTV Group Germany, etc. The Department has highly qualified and committed faculty members Faculty members are well recognized and are members of many national and state level policy making and advisory bodies and Board of Studies of various universities. The Department has been recognized as a QIP Centre by the MHRD, GOI for the teaching community of other technical institutions to pursue their PhD and M.Tech degrees, since 1978.


FATIGUE TESTING MACHINE

Publications	Journals	111
	Conferences	56
	Books	5
	Book Chapters	40
Academic Programs	UG	01
	PG	08
	PhD	02
Degrees Awarded	UG	103
	PG	181
	PhD	28
FDP/conferences Organized		08
Number of Staff		19

Faculty and their Specializations:

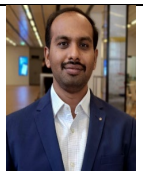
Sl. No.	Name and Qualifications	Major Areas of Specialization
Professors (HAG)		
1.	 Prof. N. V. Umamahesh Ph. D. (NIT Warangal)	Water Resources Systems; Hydrologic Modelling; Modelling impacts of climate change; Hydroclimatic Extremes; Urban Floods; Applications of Soft Computing Techniques

2.		Prof. C. S. R. K. Prasad Ph. D. (NIT Warangal)	Travel Demand Modelling, Urban & Regional Planning, Land Use Planning, Transit Oriented Development, Public Transport, Highway Network Design, Traffic Safety, Safety Audit, Traffic System Design, Transport Economics, Low Volume Roads, Project Management
3.		Prof. Rajesh Kumar G Ph. D. (NIT Warangal)	High Strength Concrete, Prestressed Concrete, Self-compacting self-curing concrete
4.		Prof. P. Anand Raj Ph. D. (IIT Kharagpur)	Systems Analysis, Fuzzy Systems, Multi Criteria Decision Making, Hydrology and Fluid Mechanics
5.		Prof. Ramaseshu D Ph. D. (NIT Warangal)	New Concretes, Repair & Health Monitoring of Structures
6.		Prof. M. Chandrasekhar Ph. D. (NIT Warangal)	Water and Wastewater treatment, Air quality modelling, Water quality modelling, Solid waste Management, EIA
Professors			
7.		Prof. T. D. Gunneswara Rao, Head Ph. D. (NIT Warangal)	Fracture Mechanics of Concrete Structures, Fiber Reinforced Concrete, Sustainable Construction Materials
8.		Prof. Rathish Kumar Pancharathi Ph. D. (NIT Warangal), Dr. Eng. Japan	Sustainable Concrete Making Materials, Earthquake Engineering, Health Monitoring of Structures, Repair and Rehabilitation of structures
9.		Prof. Ramana Murthy V Ph. D. (NIT Warangal)	Expansive soils, Reinforced Earth, Utilization of waste materials like fly ash
10.		Prof. Hari Krishna P Ph. D. (NIT Warangal)	Granular Anchor Piles, Expansive Soils, Geothermal Piles, Value based education

11.		Prof. M. Heeralal Ph. D. (NIT Warangal)	Recycled Aggregate in Pavements and Geo Environmental Engineering.
12.		Prof. Venkata Reddy Keesara Ph. D. (IIT Bombay)	Watershed modelling and management using numerical, soft computing and geospatial methods; Climate change impact studies; Applications of geospatial technologies in rural and urban environments.
13.		Prof. Venkaiah Chowdary Ph. D. (IIT Madras)	Characterization of asphalt binders and mixtures; asphalt pavement analysis, design, and evaluation; quantification of roadway and railway traffic noise.
14.		Prof. P Venkateswara Rao Ph. D. (BITS Pilani)	Water supply, treatment and distribution, wastewater treatment, waste management, low cost water and wastewater treatment, Anaerobic digestion of organic wastes, waste to energy technologies
15.		Prof. S. Venkateswara Rao Ph. D.(JNTU Hyderabad)	Self-Compacting concrete; Special concretes and nano materials in concrete and mortar; Repair and Rehabilitation of structures; Fiber reinforced Concrete; Multi component binder in self-compacting mortar; Use of Recycled concrete aggregate in mortar and concrete.
16.		Prof. Arif Ali Baig Moghal Ph. D. (IISc Bangalore)	Geoenvironmental Engineering; Unsaturated Soil Mechanics; Bio-Geotechnics
Associate Professors			
17.		Prof. Kameswara Rao V N M. Tech. (NIT Warangal)	Fluid Mechanics and Hydraulic Machines; Hydrologic Systems Modelling; Transport Phenomena of Mass, Momentum, Energy for climate modelling; Groundwater Modelling
18.		Prof. Sudhakar M M. Tech. (NIT Warangal)	Steel fibre Reinforced Concrete
19.		Prof. Hari Prasad Reddy P Ph. D. (IISc Bangalore)	Solid Waste Management, Geoenvironmental Engineering, Water and Wastewater Treatment

20.		Prof. T. P. Tezeswi Ph. D. (Univ. of Mississippi, USA)	Response of composite materials and structural systems to blast, impact, fire & environmental deterioration; Vulnerability and risk assessment of built infrastructure; Imaging based Structural Health Monitoring.
21.		Prof. S. Shankar Ph. D. (NIT Warangal)	Low Volume Road Engineering, Pavement Analysis and Design, Pavement Management System, Pavement Material characterization
22.		Prof. M. Shashi Ph. D. (IIT Roorkee)	Close Range Photogrammtery, UAV Applications in Structural and Agricultural Health Monitoring, Microwave Remote Sensing, Remote Sensing Applications in Urban Development, Advanced Surveying
23.		Prof. Ajey Kumar Patel Ph. D. (IISc Bangalore)	Computational Fluid Dynamics; Environmental Fluid Mechanics; Wastewater Engineering; Surface Aeration Systems
24.		Prof. D. Ravi Prasad Ph. D. (NIT Warangal)	Sustainable construction materials, Structural health monitoring, Hybrid Fiber reinforced engineered cementatious composites
25.		Prof. M. V. N. Sivakumar Ph. D. (IIT Madras)	Computational Mechanics; Fracture Mechanics Applications to Metal and Concrete Structures; Finite Element and Reliability Applications to Nuclear Reactor Components; Experimental Studies on Special Concretes; Rheology of concrete
26.		Prof. K. V. R. Ravi Shankar Ph. D. (IIT Bombay)	Safety Analysis of Vehicular Interactions; Pedestrian behavioral analysis and modeling; Crowd dynamic analysis and emergency evacuation planning; Non-lane based behavior modeling and nanoscopic model development; Capacity analysis of highways under mixed traffic conditions;
27.		Prof. G Kalyan Kumar Ph. D. (IIT Madras)	Seismic hazard Analysis; Reliability Analysis; Soil Dynamics; Soil Pile Interaction; Laterally loaded piles; Seismic Microzonation; Disaster Management; Shallow Subsurface Investigation; Pervious concrete pile; Biomodification and MICP of fine grained sands
28.		Prof. K. Gopikrishna Ph. D. (IIT Roorkee)	Multi hazards performance Assessment of structures, Computational Earthquake Engineering, Seismic Fragility Analysis of Buildings, Fire Severity Analysis of Building frames and Wavelet Finite Element Methods.
29.		Prof. Arpan Mehar Ph. D. (IIT Roorkee)	Macroscopic and microscopic traffic analysis, Highway Capacity and level of service, Highway geometric design, Traffic flow simulation, Traffic pollution.

Assistant Professors			
30.		Prof. P Sridhar Ph. D. (University of Quebec, Canada)	Water/wastewater treatment, life cycle analysis, modelling of water/wastewater treatment, Solid waste management, bio-energy production from wastewater, wastewater sludge, and organic waste, Biodiesel, Bioplastic, Bio-flocculant.
31.		Prof. G. V. Ramana Ph. D. (GITAM Univ., Visakhapatnam)	Rock Mechanics and Rock Engineering, Design and analysis of Underground Structures, Geotechnical Engineering and Landslides mitigating measures, Ground Improvement Techniques for Problematic Soils, Strength and durability studies of Multi Blended Concretes, Alkali silica reaction (ASR) studies on water resources structures.
32.		Prof. S. Anitha Priyadharshani Ph. D. (IIT Madras)	Characterization of materials; Fiber Reinforced Polymer Composites; Stiffened panels; Experimental techniques; Finite Element Analysis; Establishment of new testing facilities, Concrete filled steel tube columns, Concrete filled FRP tube (CFFT) columns, RCC Columns with FRP bar reinforcement, FRP and FRC Sleepers
33.		Prof. Kavitha B Ph. D. (IIT Madras)	Engineering Seismology; Earthquake data analysis; Simulation of ground motions; Probabilistic Seismic Hazard Assessment; Earthquake Forecasting
34.		Prof. Aneetha V Ph. D. (IIT Madras)	Building Information Modelling, Road Information Modelling, Lean Construction, Virtual Reality in Construction, Construction Project Management, Sustainable construction, Infrastructure Management.
35.		Prof. Sumanth Chinthala Ph. D. (IIT Delhi)	Air Pollution; Indoor Air Quality; Sustainable Development, Water and Wastewater Management; Solid waste Management; Environmental Impact Assessment, Life Cycle Analysis
36.		Prof. Umesh B. Ph. D. (IIT Hyderabad)	Numerical Methods in Civil Engineering: Finite Difference Method, Finite Element Analysis and Iso-Geometric Analysis; Classical and neoclassical Continuum theories to study the Material Deformation and internal force distribution; Damage and Fracture Mechanics to study the crack propagation and related fields.
37.		Prof. B. Raghuram Kadali Ph. D. (IIT Bombay)	Pedestrian Cross Flow Modelling, Non-Motorized Safety, Traffic Safety, Driver Behavior, Traffic flow modeling • Transportation Environment • Travel behavior, Sustainable Transportation • Freight Transportation

38.		Prof. Vishnu R Ph. D. (IIT Kharagpur)	Pavement Materials, Pavement Management Systems, Pavement Design and Evaluation
39.		Prof. Sudheer Kumar Yamsani Ph. D. (IIT Guwahati)	Geoenvironmental Engineering; Soil-Atmosphere Interaction; Reinforced soil structures; Applied Soil Mechanics; Geopoylmers and Ground improvement techniques
40.		Prof. Sanjit Biswas Ph. D. (IIT Delhi)	Soil Dynamics; Machine Foundations; Shallow and Deep Foundations; Field and Laboratory Testing; Finite Element Analysis; Continuum Approach Modelling and Analysis; Soil Mechanics; Geoenvironmental Engineering
41.		Prof. Manali Pal Ph. D. (IIT Kharagpur)	Hydrology; Climate Change; Soil Moisture Retrieval using Remote Sensing; Stochastic Modelling; Machine Learning and Artificial Intelligence.
42.		Prof. Vema Vamsi Krishna Ph. D. (IIT Madras)	Hydrologic Modelling; Watershed Management; Parameterization of Watershed Models; Agricultural Water Management; Optimal Allocation of Resources; Decision Making Under Uncertainty; Application of Soft Computing Tools for Water Resources Problems;
43.		Prof. Litan Kumar Ray Ph. D. (IIT Roorkee)	Stochastic hydrology, Flood & drought estimation, Real-time flood forecasting, Hydrologic Modelling, Climate change, and climate variability study, Application of Machine learning
44.		Prof. Jew Das Ph.D (NIT Warangal)	Climate Change Impact Assessment, Hydrological Extremes, Nonstationary Analysis, Population Exposure, Uncertainty Analysis, Machine Learning Application in Water Resources, Hydrological Modelling
45.		Prof. Vasudha Dattatraya Katare Ph.D. (VNIT Nagpur)	Construction Technology and Management, Building Information Modelling, Sustainable Construction Materials, Concrete Technology, Pozzolanic Materials

PhD Degree Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)
1.	Kumarapu Kumar	Structural Condition Monitoring Using Multispectral and DIC Based Methods	Shashi Mesapam and K. Venkata Reddy
2.	T. Arjun Kumar	Influence of chemical warm mix additive on the performance of bituminous binders and bituminous mixtures containing waste plastic coated coarse aggregates	Venkaiah Chowdary

3.	Boddu Sudhir Kumar	Assessment of rail transport noise perceived by trackside dwellers	Venkaiah Chowdary
4.	Romana Mariyam Rasheed	Geotechnical Behavioural Studies on Low Organic Soil Treated with Chitosan and Casein Biopolymers	Arif Ali Baig Moghal
5.	Sagar Banavath	Investigations on Flexural Response of FRC Beams Reinforced With Basalt Fiber Reinforced Polymer Rebars	M V N Sivakumar
6.	Subbarao Yarramsetty	Evaluation of Combined Comfort Index and Energy Conservation Of Institutional Buildings Using Multi-Criteria Decision-Making	M V N Sivakumar P. Anand Raj
7.	Rakesh Padakanti	A Study on The Performance and Bond Behaviour of High Strength Geopolymer Concrete	S.V.Rao and P.Rathish Kumar
8.	Alemayehu Letamo Hambamo	Development of a Mechanistic Model for the African Tectonic Plate	B. Kavitha and T. P. Tezeswi
9.	Zeleke Lulayehu Tadesse	Numerical study on soil-structure interaction effect of Underground stories on response characteristics of building frames	Harikrishna P

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The Department of Computer Science & Engineering was established in the year 1991. The B. Tech (Computer Science and Engineering) program was started in the year 1983 with an intake of 20 students. The intake was subsequently increased to 120 in 2008. M. Tech (Computer Science and Engineering) program was started in 1987 with an intake of 18 and subsequently increased to 20 in 2008. M. Tech (Information Security) was introduced in the year 2008 Under ISEAP sanctioned by Ministry of Communication and Information Technology (MCIT), DOE, GOI, New Delhi with intake of 20. Later, it was renamed as Computer Science and Information Security. The Master of Computer Applications (MCA) program was started in 1986 with an intake of 30 and increased to 46 from 2008. B.Tech, M.Tech (CS) and M.Tech (CSIS) programs were accredited in 2014 by NBA as per Washington Accord.

The Department has distinguished and committed faculty members with PhD from reputed Institutes. It has close rapport with MICROSOFT, TCS, INFOSYS, ORACLE, TRDDC-Pune, SUN Microsystems, EMC2, ACCENTURE, C-DAC, MOTOROLA, HONEYWELL, NOVELL, PHILIPS, SAMSUNG, and IBM-Bangalore. The department has MOUs with TCS, IBM, C-DAC and INFOSYS, for training students and faculty on latest cutting edge technologies and also to pursue Research and Development activities. The Department has been selected as a Remote Center under Information Security Awareness Project (ISEAP) Phase II, MCIT Dept of IT. Along with department of ECE, it is associated in E&ICT Academy project sanctioned by Department of Electronics and Information Technology, Govt of India for Rs.25 crores to train faculty from Engineering and Polytechnic Streams across Telangana, Andhra Pradesh, Karnataka States and Puducherry, Andaman & Nicobar Islands and Lakshadweep UTs.



Publications	Journals	68
	Conferences	71
	Books	-
	Book Chapters	-
Academic Programs	UG	01
	PG	03
	PhD	01
Degrees Awarded	UG	161
	PG	46
	PhD	14
FDP/conferences Organized		25
Number of Staff		09

Faculty and their Specializations:

`Sl. No.	Name and Qualifications	Major Areas of Specialization
	Professors (HAG)	
1.	 Prof. DVLN Somayajulu Ph.D. (IIT Delhi) (On deputation as Director IIIT Kurnool)	Databases, Information Extraction & Big Data
	Professors	
2.	 Prof. B. B. Amberker PhD (IISc Bangalore)	Security, Cryptography

3.		Prof. S. G. Sanjeevi PhD (IIT Bombay)	Software Engineering, Machine Learning
4.		Prof. R. Padmavathy, Head Ph.D. (UoH)	Cryptanalysis and Network Security
5.		Prof. R.B.V. Subramaanyam Ph.D. (IIT Kharagpur)	Data Mining, Big Data Analytics
6.		Prof. P Radha Krishna Ph.D. (IIIT Hyderabad)	Data Mining, Machine Learning, Big Data, Databases and workflow Systems
7.		Prof. K. Ramesh Ph.D. (NIT Warangal)	Architectures & Coding infrastructures in CNs
8.		Prof. Ch. Sudhakar Ph.D. (NIT Warangal)	Cloud Computing, Distributed Systems
9.		Prof. Rashmi Ranjan Rout Ph.D. (IIT Kharagpur)	Computer Networks, Mobile Computing
Associate Professors			
10.		Prof. S. Ravi Chandra Ph.D. (NIT Warangal)	Software Engineering, Software Architecture

11.		Prof. T. Ramakrishnudu Ph.D. (NIT Warangal)	Association Rule Mining; Distributed DM
12.		Prof. Raju Bhukya Ph.D. (NIT Warangal)	Software Engineering, Computer Organization
13.		Prof. U.S.N.Raju Ph.D. (JNTU Kakinada)	Computer Vision and Image Processing
14.		Prof. K.V. Kadambari Ph.D. (JNU New Delhi)	Computational Neuroscience
15.		Prof. P. Venkata Subba Reddy Ph.D. (NIT Trichy)	Algorithms and Graph Theory
16.		Prof. Priyanka Chawla Ph.D. (TIET, Patiala)	Cloud Computing, Software Engineering, Nature Inspired Computing, Artificial Intelligence
17.		Prof. Sriram Kailasam Ph.D. (IIT Madras)	Distributed Systems, Scalable algorithms for Formal Concept Analysis, Big Data Analytics
18.		Prof. Manish Kumar Bajpai PhD (IIT Kanpur)	Augmented Intelligence, Engineering Applications of Fractional Calculus, High Performance Computing, Mesh Free Computations
19.		Prof. Venkanna Udutalapally PhD (NIT Trichy)	Autonomous vehicles Security, Internet of Things (IoT), IIoT, Network Security, Security and Privacy on AI models, Software Defined Networks

Assistant Professors			
20.		Prof. B Manjubala Ph.D. (IIT Kharagpur)	Software reliability modeling
21.		Prof. Earnest Paul Ijjina Ph.D. (IIT Hyderabad)	Computer Vision, Video Content Analysis
22.		Prof. E Suresh Babu Ph.D. (JNTU Kakinada)	Wireless Networks, Block Chain, IoT
23.		Prof. M Sandhya Ph.D. (University of Hyderabad)	Biometrics, Pattern Recognition
24.		Prof. M Srinivas Ph.D. (IIT Hyderabad)	Image Processing, Medical Imaging,
25.		Prof. IIaiah Kavati Ph.D. (University of Hyderabad)	Pattern recognition ,image processing
26.		Prof. Sujit Das Ph.D. (NIT Durgapur)	Soft Computing, Artificial Intelligence, Evolutionary Computation, Machine learning, and Multi-criteria Decision Making
27.		Prof. Sanjay Kumar Panda Ph.D. (IIT Dhanbad)	Cloud and Fog Computing, Recommender Systems and Internet of Things

28.		Prof. Bala Prakash Killi Ph.D. (IIT Guwahati)	Software Defined Networking. Internet of Things. Reinforcement Learning. Game Theory. Network Optimization.
29.		Prof. Sangharatna Godboley Ph.D. (NIT Rourkela)	Program Analysis; Software Testing; Fuzzing; Verification; Smart Contracts; Machine Learning
30.		Prof. Ramalingaswamy Cheruku Ph.D. (NIT Goa)	Soft Computing, Optimization, Deep Learning and Its Applications, ANNs, Machine Learning, Bio & Nature inspired Algorithms, Data Mining, Fuzzy logic.
31.		Prof. Venkateswara Rao Kagita Ph.D. (University of Hyderabad)	Recommender Systems; Machine Learning; Deep Learning; Data Mining
32.		Prof. Tapan Kumar Sahoo PhD (IIT Dhanbad)	Image Processing, Pattern Analysis and Machine Learning, Soft Computing
33.		Prof. Nidhi Sonkar PhD (NIT Raipur)	Artificial intelligence, Delay Tolerant Networks, Wireless Networks and Mobile Communication
34.		Prof. Shivadarshan S L PhD (NIT Surathkal)	Network Security, Information Security, Malware Analysis
Adjunct Professor			
1.		Dr. V. C.V. Rao Full-time consultant, C-DAC	

PhD Degree Awarded:

Sl. No.	Student Name	Thesis Title	Supervisor(s)
1.	V. Uma Sankararao	Privacy-Preserving Ciphertext-Policy Attribute- Based Search over Encrypted Data in Cloud Storage	K.V. Kadambari
2.	Amdewar Godavari Ramlu	Design of Primary Storage Deduplication Schemes for Cloud Environment	Chapram Sudhakar
3.	Mukku Nisanth Kartheek	Texture based Feature Extraction Strategies for Facial Expression Recognition	Raju Bhukya
4.	Debanjan Pathak	Content Based Image Retrieval based on Handcrafted and Deep Learning Methods	U.S.N. Raju
5.	G. Spoorthy	Some Studies in Cross-Domain and Multi criteria Recommendation systems using Collaborative filtering	S.V. Sanjeevi
6.	Umamaheswara Sharma B	Some Investigations of Machine Learning Models for Software Defects	Ravichandra Sadam
7.	Priyanka Parimi	Design of Rumor Mitigation Approaches for Online Social Networks	Rashmi Ranjan Rout
8.	Bhukya Padma	Designing a Secure Communication Protocol in IoT Enabled ZigBee Networks using Blockchain System	E. Suresh Babu
9.	Chilukamari Rajesh	Some Metaheuristic Algorithms to Design Deep Neural Networks for Medical Image Detection	Ravichandra Sadam
10.	P V Shalini	Detection and Mitigation of DDoS Attacks in SDN using Statistical Techniques	S.G. Sanjeevi, V. Radha
11.	Srinivas Arukonda	Metaheuristic Algorithms based Ensemble Models for Enhanced Chronic Disease Diagnosis	Ramalingaswamy Cheruku
12.	Thanedar Md Asif	Design of Resource Management and Energy-Efficient Task Scheduling Algorithms for Fog-Empowered Vehicular Networks	Sanjay Kumar Panda

DEPARTMENT OF ELECTRICAL ENGINEERING

The Department of Electrical Engineering is one of the oldest departments of the National Institute of Technology, Warangal (NITW). Established as one of the major departments of the Institute, in 1959, the department has been actively engaged in teaching and research in diverse fields of Electrical Engineering. With excellent faculty, the department offers Under Graduate (B.Tech) program in Electrical and Electronics Engineering and Post Graduate (M.Tech) programmes in "Power Electronics & Drives", "Power Systems Engineering", "Smart Electric Grid" and also offers Ph.D. programme in Electrical Engineering.

The department has well-equipped state-of-the-art laboratories to augment the coursework and enhance the research potentials. The department has a dynamic group of faculties with profound experience in academics, research and industry, dedicated in teaching-learning process and actively engaged in the cutting-edge R&D activities with broad areas of expertise like; Power Electronic & Drives, Application of Power Electronics to Energy Efficient Lighting Systems, DSP controlled Industrial Drives, Electric Vehicle & Wireless Power Transfer and Power Quality Improvement, State Estimation and Real Time Control of Power Systems, Applications of ANN and Fuzzy Logic in Power Systems, Power System Deregulation, Power System Transients, Artificial Intelligence & Machine Learning etc.

The department is strongly supported by external research projects and training programmes funded by Government of India through various prestigious schemes like; IMPRINT-India, SPARC, DST, SERB, CPRI, DRDO, MNRE, MeitY, GIAN, AICTE-ATAL, E&ICT, PMMMNMTT etc. The department has strong Industry interaction and has been involved in constantly handling various consultancy projects for various Industries and Government of Telangana and Andhra Pradesh. It has an MOU with Hitachi Energy India, Defence Research and Development Organization (DRDO), Central Power Research Institute (CPRI), POWERGRID, Grid India to carry out the collaborative projects.



Publications	Journals	44
	Conferences	61
	Books	-
	Book Chapters	13
Academic Programs	UG	01
	PG	04
	PhD	01
Degrees Awarded	UG	137
	PG	82
	PhD	14
FDPs / Conferences organized		4
Number of Staff		13

Faculty and their Specializations:

Sl. No.		Name and Qualification	Major Areas of Specialization
Professors (HAG)			
1.		Prof. Siva Sarma D V S S Ph.D (IIT Madras)	Microgrid Protection and Operation, Demand Response Management, Fault Diagnosis & Condition Assessment, Power Quality
2.		Prof. Somasekhar V. T. Ph.D (IISc Bangalore)	Open-end winding AC Motor Drives, Multilevel Inverters, PWM strategies, Solar PV based pumping systems, Fault-tolerant motor drives

Professors			
3.		Prof. Narasimharaju B. L Head Ph.D (IIT Roorkee)	Power Drivers for Efficient LED Lighting Systems, Bidirectional Power Converters and Control, Electric Drives Control (SRM, SynRM, BLDC, PMSM), EV Charging & Propulsion Systems, Solar PV inverters for EV/UPS/Grid Applications, Multi-stage/Multilevel Inverters for E-drives
4.		Prof. Srikanth N V Ph.D (NIT Warangal)	Applications of AI Techniques to power systems/smart grid, Enhancement of overall stability of power systems/micro grid, Intelligent controllers for HVDC and FACTS Technologies
5.		Prof. Bhagwan Krishna Murthy Ph.D (IIT Madras)	DSP controlled drives, Doubly Fed Induction Generator, Application to wind and wave energy
6.		Prof. Vishwanathan N Ph.D (IISc Bangalore)	Power converter for LED lighting systems, High frequency inverters for Induction Heating Systems, Bi-directional power Converters, Converters for Battery charging
7.		Prof. Srinivasa Rao. S Ph.D (NIT Warangal)	Renewable Energy Systems, Power Quality, Power Electronic Converters, Induction Motor Drives, Unipolar and Bipolar DC Microgrids, Digital Signal Processor Controlled Drives
8.		Prof. Sailaja Kumari M Ph.D (NIT Warangal)	Power Markets, Synchrophasor applications in Power Systems, Power System Optimization, AI applications in Power Systems
9.		Prof. Chintham Venkaiah Ph.D (NIT Warangal)	Power Systems
Associate Professors			
10.		Prof. Porpandiselvi S Ph.D (NIT Warangal)	PV-fed LED drivers, Induction Heating Applications, High frequency Soft-Switched Inverters
11.		Prof. Suresh Babu Perli Ph.D (JNTU Hyderabad)	Power System Protection, Electric Vehicles
12.		Prof. A. Kirubakaran Ph.D. (MANIT Bhopal)	Power Electronics- DC-DC Converters, DC-AC Converters, Power Quality and Grid interface, Multilevel Inverters, Reduced device counts MLIs, Distributed Generation, Real Time Control

13.		Prof. Bhookya Nagu Ph.D (NIT Warangal)	Power Systems Stability, Renewable Energy Resources, Solar PV, Fuel cell, Micro Grid
14.		Prof. G. Siva Kumar Ph.D (IIT Madras)	Power electronics application to the power system, renewable system, AC microgrid
15.		Prof. D Sreenivasarao Ph.D (IIT Roorkee)	Multilevel Power Converters, Power Electronic Converter Design and Control, Electric Vehicles, Active Power Filtering
16.		Prof. A. V. Giridhar Ph.D. (IIT Madras)	Condition Monitoring & Diagnosis of Power Equipment, High Voltage Engineering, Pulsed Power Technology, High Gain DC-DC Converters
17.		Prof. M Udaya Bhasker Ph.D. (CITCEA-UPC, Spain)	Power Electronics & Drives, Bi-directional DC-DC Converters, Energy storage Systems, Digital Control, Synchrotron Power Supplies
18.		Prof. B. Venugopal Reddy Ph.D. (NIT Warangal)	Multilevel Inverters, Open-end Winding Induction Motor Drives, Grid connected/Stand-Alone PV Systems
19.		Prof. Sharmili Das Ph.D. (IIT Kharagpur)	Power Electronics & Drives, Special machines
Assistant Professors			
20.		Prof. Srinivasan Pradabane Ph.D (NIT Warangal)	Power Electronics and Drives
21.		Prof. Ch. Ramulu Ph.D (NIT Warangal)	Power electronics and drives, application of power electronics to nonconventional energy conditioning, AC-DC electrolytic capacitor-less single-phase LED drivers, high gain DC-DC Converters
22.		Prof. Vinay Kumar T Ph.D. (NIT Warangal)	Power Electronics and Electric Drives, Speed Control scheme of Induction motor drives, PMSM drives

23.		Prof. Satish Kumar I Ph.D. (JNTU Kakinada)	Power Systems Planning, Operation, and Control, Energy Management in Microgrids, LFC, and AGC, Resource allocation and optimization, WSN & IoT, Digital Image and Signal Processing
24.		Prof. Altaf Q H Badar Ph.D. (VNIT Nagpur)	Power Systems, Energy Markets, Evolutionary Optimization Techniques, Energy Management
25.		Prof. Swati Devabhaktuni Ph.D. (JNTU Hyderabad)	Power Electronics Converters, Controller design, Speed control of induction motor drive, PMSM drives, linear induction motor drive, Induction heating
26.		Prof. Palash Mishra Ph.D. (IIT Madras)	High Voltage DC/AC Systems, Nano Dielectrics, Condition Monitoring of Power Apparatus, Artificial Intelligence Techniques, Polymeric Insulation
27.		Prof. Ram Krishan Ph.D. (IIT Delhi)	Power system stability, Microgrid, Renewable Energy Integration
28.		Prof. R. Jeyasenthil Ph.D. (IIT Bombay)	Robust Control System design, Quantitative feedback theory (QFT) and H-infinity design methods, Control of Power converters and Mechatronic system
29.		Prof. Kanasottu Anil Naik Ph.D. (IIT Roorkee)	Intelligent controller applications in power system, Micro-grid stability and control, Renewable Energy Systems grid integration issues
30.		Prof. Debasmita Panda Ph.D (IIT Kanpur)	Power Market Optimization, Smart Grid
31.		Prof. Mahamad Nabab Alam Ph.D. (IIT Roorkee)	Power system protection, Networked microgrids, Optimization techniques, Smart Grid
Adjunct Professors			
1.		Prof. Akshay Kumar Rathore [Professor, Singapore Institute of Technology, Singapore]	• Power Electronics • Modulation: • Transportation Electrification: • Electrical Drives

2.		Prof. NDR Sarma [Founder and CEO, NDRS SEMS Consultancy, LLC,]	Power System Smart Grid

PhD Degree awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)
1	T. Vinod Kumar	Investigations on optimal planning of Distributed Generators in distribution system considering uncertainties using multi-objective optimization approaches	I. Satish Kumar
2	Mrs. Parvathy M.L.	Effective Model Predictive Current Control Schemes for Permanent Magnet Synchronous Motor Drive	T. Vinay Kumar
3	Chinna Karasala	Control of Multifunctional PV Grid Connected Inverter with Reduced Switching Losses and Common Mode Voltage Reduction	G Siva Kumar
4	Bhavin Salvi	Development of High Frequency Soft-switched Inverter Configurations for Multi-load Induction Cooking System	S. Porpandiselvi, N. Vishwanathan
5	Krishna Kumar Rai	Dynamic Impedance Matching and Pulse Shaping of High Voltage High Pulse Power Supply	A. V. Giridhar, D.R. Jahagirdar
6	Lokesh Vankudoth	Investigations on Strategies for Profit Maximization in Networked Microgrids	Altaf Q. H. Badar

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

The Department of Electronics and Communication Engineering has been one of the key departments of the Institute since its inception in the year 1971. The department has expanded steadily over the last few decades and is now recognized as one of India's leading academic and research centers. The department has strong liaisons with academics and industry across the globe. The department also provides support to R&D organizations. The faculty is actively engaged in providing solutions to industry problems as consultants. The department's academic programs are rated among the top in the country. The graduating students are well-placed in leading academic Institutes, research organizations and industries.

The Department of Electronics and Communication Engineering is one of the country's largest ECE departments among all NITs in India and one of the largest National Institute of Technology, Warangal (NITW) departments. The ECE Department at NITW has an international reputation for excellence in teaching, research and service. With excellent laboratory facilities and dedicated faculty, the department of ECE offers a broad range of programs that include undergraduate (B.Tech) and postgraduate (M.Tech) in Electronics Instrumentation, VLSI System Design, Communication Systems and research (PhD) programs. Some of the recent sponsored project undertaken by the department includes Radar Emitter Identification using Neural Networks sponsored by DLRL, Hyderabad and Special Manpower Development in VLSI sponsored by MIT-Govt. of India.

The department offers a comprehensive Bachelor in Technology program in Electronics and Communication Engineering and Electronics and Communication Engineering (VLSI Design and Technology) from A.Y 2023-24. An intensive Master in Technology program in three specializations- Electronic Instrumentation, VLSI and Advanced Communication.

Publications	Journals	49
	Conferences	29
	Books	-
	Book Chapters	-
Academic Programs	UG	02
	PG	03
	PhD	01
Degrees Awarded	UG	157
	PG	79
	PhD	15
FDP/Conferences Organized		06
Number of Staff		13

Faculty and their Specializations:

Sl. No.		Name and Qualifications	Major Areas of Specialization
Professor (HAG)			
1.		Prof. Narasimha Sarma N V S Ph.D. (IIT Kharagpur) On deputation as Director IIIT Trichy	Numerical Electromagnetics ANNs and Wireless Sensor Networks Antennas
Professors			
2.		Prof. D. Vakula (Head) Ph.D. (NIT Warangal)	Multifunction Antennas, Ultrawideband antennas, Metamaterials, Fault Diagnosis of Antenna Arrays, Waveguide slot radiators, Conformal Antennas, Artificial neural networks, Terahertz systems
3.		Prof. T. Kishore Kumar Ph.D. (J.N.T.U. Hyderabad)	Artificial Intelligence and Machine Learning for Speech, Image & Medical Applications, Real time Embedded systems and Internet of Things

4.		Prof. L. Anjaneyulu Ph.D. (NIT Warangal)	Computer Networks, Antennas, Microwave Engineering, Signal Processing, Radar Signal processing, Antennas Underwater communications
5.		Prof. N. Bheema Rao Ph.D. (IIT Bombay)	On-Chip Inductors for RF Applications and Device Modelling
6.		Prof. B. Lakshmi Ph.D. (IIT Kharagpur)	IoT VLSI Architectures Embedded System Design FPGA Design Low Power VLSI design
7.		Prof. TVK Hanumantha Rao Ph.D. (Anna University)	Biomedical signal processing and Fault tolerant network on chip
8.		Prof. Sreehari Rao Patri Ph.D. (NIT Warangal)	Analog and Mixed-Signal IC Design, Power Management ICs, Smart SoC design for IoT applications, Communication Systems, Smart Sensors, SERDES Circuits.
9.		Prof. V.V. Mani Ph.D. (IIT Delhi)	Wireless Communication for B5G/6G, Artificial Intelligence and Machine learning for communication, Software Defined Radio, IRS assisted Wireless Communication
10.		Prof. J. Ravi Kumar Ph.D. (NIT Warangal)	Signal Processing, Control System Design, Machine Learning
11.		Prof. S. Anuradha Ph.D. (Andhra University)	Wireless Communications, Coding Techniques, Fading Channels, Cognitive Radios, Signal Processing for Communications, Antennas for Cognitive Radios
Associate Professors			
12.		Prof. M.V. Raghunadh Ph.D. (NIT Warangal)	5G Communications, Image Processing, Pattern Recognition
13.		Prof. K. Ravi Kishore M.Tech (NIT Warangal)	Wireless Sensor & Computer Networks Digital System Design Wireless Communications

14.		Prof. S.K.L.V. Sai Prakash Ph.D. (NIT Warangal)	Terrestrial and Non-Terrestrial Comms, Ad-hoc and Sensor Networks, Internet of Things & Cyber-Physical Systems, Machine Learning and Smart Systems Design
15.		Prof. P. Hari Krishna Prasad M.E. (Sri Venkateswara University)	Wireless communications
16.		Prof. K.V. Sridhar Ph.D. (NIT Warangal)	Bio-medical signal/Image Processing Adaptive Signal Processing
17.		Prof. A. Prakasa Rao Ph.D. (NIT Warangal)	Smart Antenna Systems, Optimization Techniques, EDC, & Signals and Systems
18.		Prof. P. Muralidhar Ph.D. (NIT Warangal)	VlSI Architectures, Embedded Systems Design, FPGA & System on Chip (SoC) Design
19.		Prof. Ch. V. Rama Rao Ph.D. (JNTU Hyderabad)	Speech Processing, Signal Processing, Machine Learning Algorithms for Signal Processing, Signal Processing Issues in Advanced Communication Systems, Pattern Recognition.
Assistant Professors			
20.		Prof. P. Prithvi Ph.D. (NIT Warangal)	Digital System Designs, Embedded Systems Designs, Speech Processing
21.		Prof. V. Rama Ph.D. (NIT Warangal)	Artificial intelligence in biomedical signal processing, Deep learning in medical diagnosis, Analog Electronics, Digital Logic Design, Linear IC Applications, Digital IC Applications.
22.		Prof. K. Sarangam Ph.D. (NIT Warangal)	VLSI Circuit Design low power design novel device
23.		Prof. Kalpana Naidu Ph.D. (IIT Hyderabad)	Wireless Communication, 5G communication, Heterogeneous Communication, Resource allocation
24.		Prof. G. Arun Kumar Ph.D. (Jadavpur University, Kolkata.)	Microwave and Millimeter wave passive and active circuits, Communication and Radar front end design, Metamaterials, Substrate Integrated Waveguides circuits and antennas, and Reconfigurable filters and antennas

25.		Prof. Atul Kumar Nishad Ph.D. (IIT Ropar)	VLSI Interconnects, Microelectronics and VLSI, 2D Materials, VLSI Circuits and Systems
26.		Prof. V. Narendar Ph.D. (MNNIT Allahabad)	Beyond CMOS, Nanoscale device design and modeling, Modeling and simulation of semiconductor devices, Carbon Nanotubes and 2D material-based devices, VLSI Circuits & Systems
27.		Prof. Himanshu Shekhar Pradhan Ph.D. (IIT Bhubaneswar)	Optic Sensors; Optical Signal Processing; Nonlinear Fiber Optics; Optical Communication; Structural Health Monitoring using Fiber Optic Sensors; Free Space Optical Communication; Channel modelling in FSO system.
28.		Prof. Gopi Ram Ph.D. (NIT Durgapur)	Analysis and Synthesis of Radiation Pattern of Time-Modulated Antenna Array Structures; Evolutionary Optimization Techniques; Application of Soft Computing in Electromagnetics; RF and Microwave.
29.		Prof. BKN Srinivasa Rao Ph.D. (IIT Kharagpur)	VLSI architectures for image and video processing, Embedded systems design, System on chip (SoC), Network on chip (NoC).
30.		Prof. Md. Farukh Hashmi Ph.D. (VNIT, Nagpur)	Digital Image Processing, Computer Vision, Machine Vision, Video Processing, Video Codec Design, Embedded Systems, Internet of Things (IOT), Digital Signal Processing (DSP), Machine Learning, Deep Learning for Health Care and Computer Vision, Digital Design, Embedded Image Processing, Biomedical Image Processing, Real Time Operating Systems.
31.		Prof. M. Satish Ph.D. (IIT Roorkee)	Novel devices design using calibrated TCAD; Compact modeling of novel devices; Characterization and fabrication of MOS devices/circuits; Design of low power analog and digital circuits; Design of embedded/IoT applications or systems
32.		Prof. Prakash Kodali Ph.D. (IISc Bangalore)	Printed Flexible Electronics, Embedded Systems and Biomedical Electronics
33.		Prof. Chayan Bhar Ph.D. (IIT Kharagpur)	AI for networks; Reinforcement Learning based Network Design; Network Design and Analysis
34.		Prof. Ekta Goel Ph.D. (IIT BHU)	Modeling and Simulation of Advanced MOS Devices

35.		Prof. Amarjit Kumar Ph.D. (IIT Roorkee)	Active and Passive RF microwave devices and THz components, Sensors
36.		Prof. Vasundhara Ph.D. (IIT Bhubaneswar)	Adaptive Signal Processing, Hearing Aid Design, Distributed System Estimation, Active Noise Control
37.		Prof. Shuvam Pawar Ph.D. (IIT Roorkee)	SAW & BAW resonators, Sensors and Actuators, Thin Films Technology and Semiconductor Devices.
38.		Prof. Sourabh Solanki PhD (IIT Indore)	5G/6G Wireless Communications, Non-Terrestrial Networks (UAVs, HAPS, Satellites), Performance Analysis and Radio Resource Management, Physical Layer Security, Spectrum Sharing Networks, THz Communication
Adjunct Professor			
1		Prof. BHVS Narayana Murthy [Former Distinguished Scientist & Director General (Missile & Strategic Systems)]	

PhD Degree Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)
1	Ganesh Miriyala	Low complex, power-efficient Modulation Schemes for VLC systems and Hardware Implementation	V.V. Mani
2	Mounika Jammula	Design of an Ultra-Light Weight Cryptographic algorithm for Heterogeneous Environment in the Internet of Things	V.V. Mani
3	Patri Upender	Investigations on Circularly Polarized Dielectric Resonator Antennas and THz Absorbers	Amarjit Kumar
4	Kallepelli Sagar	Design and Circuit Performance Analysis of Enclosed Circular Double Gate MOSFETs	M. Satish
5	Mr.Sripathi Siva Prasad	Some Investigations on Adaptive Algorithms for Acoustic Feedback Cancellation in Digital Hearing Aid Devices	C.B. Rama Rao V.Rama

DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

The Department of Humanities and Social Sciences at NIT Warangal was started in 2009. The Department offers courses across the board ranging from basic to advanced courses in English Communication and Two Foreign languages catering to diverse needs of students across UG /PG and PhD levels. Besides, the Department also offers research programs in the broad areas of ELT, British literature and American literature through regular, part time and self- finance modes. The Department has highly qualified and committed faculty members who are well recognized and are members of many Boards across colleges affiliated to state level universities. During the academic year2020-21, 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 also designed a Minor program to be offered at UG Level titled 'Professional Communication Skills for STEM.



Inauguration of the Five-day Short-term course on "Teaching for Inclusion: Principles for Effective Practice" conducted as a part of SPARC during 23rd – 27th September 2024.

Publications	Journals	02
	Conferences	-
	Books	-
	Book Chapters	-
Academic Programs	UG	-
	PG	-
	PhD	01
Degrees Awarded	UG	-
	PG	-
	PhD	01
FDP/Conferences Organized		03
Number of Staff		03

Faculty and their Specializations

Sl. No.	Name and Qualifications		Major Areas of Specialization
		Professor	
1.		Prof. K. Madhavi Ph. D. (Osmania University)	Academic writing skills; Designing task-based ESP courses; Multiple intelligences -Visual Literacies; teaching reading and writing using technology; Learner strategies and styles.
		Associate Professor	
2.		Prof. M. R. Vishwanathan, Head PhD (Osmania University)	ELT (Bilingualism and Bilingual education; ideology in English teaching; second language acquisition; learner strategies; communication strategies; genre analysis; academic writing) ; American Literature; British literature ; Indian writing in English
		Assistant Professors	
3		Prof. B. Spoorthi PhD (EFL-University)	AI for English Language Teaching AI for Skill Development CLIL - Content and Language Integrated Learning ; Social Emotional Learning ; Task Based Language Teaching
4		Prof. R. Vennela PhD (University of Hyderabad)	History of English language learning and teaching in India; Bilingual education; Language planning and policy; Translation; Lexicography

DEPARTMENT OF MANAGEMENT STUDIES

The Department was established in the year 2000 as Centre for Management Studies. In the subsequent years, the prestigious department was renamed as the School of Management, which is now further christened to the Department of Management Studies (DoMS). The unique concept of creating Techno-Managers was in itself as an USP for SoM, NITW. But now keeping in view of the changing requirements and the nature of Management discipline it has opened doors to all graduates aspiring to do MBA.

The Focus DoMS is on its premier 2-year, full-time MBA Programme spanning four semesters with various streams of specialisation like HR, Marketing, Finance, Operations, Analytics, IT etc. The course is typically designed for all graduates taking up MBA, thus instilling both technical and managerial competencies in the students. Being an Institute of National importance, it admits students from all over the nation and thus a bunch of intellectual minds come together and are carefully nurtured here to make them grow into the most valuable assets in the world.

This department provides a wide array of educational and research programs, as well as offering invaluable training, consultancy services and outreach initiatives in the diverse realms of Management. In 2009, the Department of Management Studies embarked on a new venture, introducing the Doctor of Philosophy program, which spans across various management disciplines. This program equips its participants with a profound understanding of the methodological tools essential for advancing the existing body of knowledge in the realm of management. The rigorous nature of this doctoral endeavour not only paves the way for a rewarding academic career but also prepares individuals for impactful research roles beyond the academic sphere. The Department of Management Studies enjoys access to the Institute's cutting-edge infrastructure. This encompasses state-of-the-art facilities such as interactive classrooms, well-equipped seminar halls, a richly stocked library, a comprehensive sports complex, comfortable hostels, and more, all of which collectively contribute to an enriching academic experience.

Publications	Journals	15
	Conferences	1
	Books	1
	Book Chapters	2
Academic Programs	UG	-
	PG	01
	PhD	01
Degrees Awarded	UG	-
	PG	22
	PhD	-
FDP/Conferences Organized		02
Number of Staff		01

Faculty and their Specializations:

S. No.	Name and Qualifications		Major Areas of Specialization
Professors			
1		Prof. V.Rama Devi, Head PhD (Sri Krishnadevaraya University)	Organizational Behaviour, Human Resource Management, Gender studies
2		Prof. P. Ramlal Ph.D (Kakatiya University)	Human Resource Management, Organizational Behaviour, Psychological Testing, Soft Skills, Corporate Training
Associate Professors			
3		Prof. Sunitha G Ph.D. (Kakatiya University)	Forensic and Fraud Accounting, Behavioural Finance, Investment Management, Personal Financial Planning with special focus on Retirement Planning, Smart Learning Management Systems and

			Digital Learning, Women Entrepreneurship and Scalability challenges of Women led Enterprises.
4		Prof. Lakshmi Tulasi Devi S Ph.D (Acharya Nagarjuna University)	Corporate Finance, Financial Econometrics, Financial Technology, Risk Management, Sustainable Finance, Green Finance & Women Entrepreneurship.
5		Prof. Francis Sudhakar Ph.D (Osmania University)	Consumer Behavior & Services Marketing
Assistant Professors			
6		Prof. Ramachandra Gopal P Ph.D. (IIT Kharagpur)	Operations Management, Supply Chain Management, Quality Management, Project Management
7		Prof. Rahul Thangeda Ph.D. (NIT Warangal)	Consumer Behaviour, Marketing for Better World, Analytics

DEPARTMENT OF MATHEMATICS

The Department of Mathematics was established in 1959 and has always shared the vision of the Institute in striving for excellence in teaching and research activities. Over the years, the department has evolved as one that provides excellent teaching and research in Applied Mathematical Sciences.

Publications	Journals	76
	Conferences	09
	Books	-
	Book Chapters	04
Academic Programs	UG	01
	PG	02
	PhD	01
Degrees Awarded	UG	-
	PG	57
	PhD	10
FDP/Conferences Organized		06
Number of Staff		04

Faculty and their Specializations:

Sl. No.		Name and Qualifications	Areas of Major Specialization
Professors (HAG)			
1.		Prof. J V Ramana Murthy Ph.D. (NIT Warangal)	Fluid Dynamics, Non-Newtonian Fluid Flows, Homotopy Analysis Method, Perturbation Methods
2.		Prof. Y. N. Reddy Ph.D. (IIT Kanpur)	Numerical Analysis
Professors			
3.		Prof. Kasi Viswanadham K N S Ph.D. (IIT Bombay)	Numerical Analysis, Finite Element Methods, Optimization Techniques
4.		Prof. Debashis Dutta Ph.D. (IIT-Kharagpur)	Operations Research, Statistics, Soft Computing, Mathematical Modelling
5.		Prof. D. Srinivasacharya Ph.D. (NIT Warangal)	Fluid Mechanics, Computational Fluid Dynamics, Hydrodynamic Stability, Micropolar and Couple Stress Fluids, Convective Heat and Mass Transfer, Biomechanics, Flow through Porous Media, Nanofluid Flows, ANN in Fluid Mechanics
6.		Prof. Hari Ponnamma Rani Ph.D. (Anna University)	Finite difference methods, Finite volume methods, Instability and vortex analysis, Flow Assisted Corrosion, Computational Fluid Dynamics

Associate Professors			
7.		Prof. Benerji Babu A (Head) Ph.D. (Osmania University)	Dynamo theory, Fluid Dynamics (Geophysical Fluid Dynamics), MHD Flows, Mathematical Modelling, and Instabilities.
8.		Prof. P. Muthu Ph.D. (IIT Kanpur)	Computational Fluid Dynamics (CFD); Biomechanics; Mathematical Modelling; Hydrodynamic Lubrication; Mathematical Biology
9.		Prof. R. S. Selvaraj Ph.D. (IIT Madras)	Algebraic Coding Theory; Abstract Algebra, Linear Algebra, Combinatorics, finite normed/metric spaces
10.		Prof. Pranitha J Ph.D. (NIT Warangal)	Fluid Dynamics, Convective Heat and Mass Transport, Flow through Porous Media, Nanofluids
11.		Prof. Ch. Ramreddy Ph.D. (NIT Warangal)	Fluid Dynamics, Convective Heat and Mass Transport, Flow through Porous Media, Stability Analysis, Computational Methods.
12.		Prof. D. Bhargavi Ph.D. (IIT Kharagpur)	Fluid Dynamics, Flow through Porous Medium, Numerical Heat Transfer, Stability analysis in ducts
13.		Prof. Satyanarayana Engu Ph.D. (IIT Madras)	Partial Differential Equations
Assistant Professors			
14.		Prof. Sreenivasa Rao Y Ph.D. (IIT Kharagpur)	Attribute-based cryptography, Cloud data security, Internet-of-drones (IoD) security, Post-quantum cryptography
15.		Prof. K. Kaladhar Ph.D. ((NIT Warangal)	Fluid Dynamics, Convective Heat and Mass Transfer, Flow through Porous Media, Analytical and Semi-analytical Methods, Bio-Mathematics
16.		Prof. Deepika Neela Ph.D. (IIT Hyderabad)	Hydrodynamic stability, Heat Convection in Porous media

17.		Prof. Triveni Prasad Shukla Ph.D. (IIT Bombay)	Quasilinear Partial Differential Equations, Nonlinear Waves, Classical and Nonclassical Shock Waves, Dispersive Shock Waves
18.		Prof. Srinivas Jangili Ph.D. (NIT Warangal)	Microfluidics, Nano fluidics, Electrokinetic Transport Phenomena, Multi-Layer Flows, Heat Transfer Analysis, Analytical and Semi-analytical Methods
19.		Prof. Jagannath Roy Ph.D. (NIT Durgapur)	Operations Research, Fuzzy Set Theory, Decision Theory, Transportation & Logistics Management

PhD Degree Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)
1	Nitish Gupta	Enhancing Heat Transfer in the Developing Thermal Field in a Fluid Saturated Porous Filled Duct with Local Thermal Non-equilibrium	D. Bhargavi
2	Subhabrata Rath	Innovative Hybrid Metaheuristic Algorithms and their Applications Under Fuzzy or Deterministic Environment	Debashis Dutta

DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering is one of the oldest departments of the National Institute of Technology, Warangal (NITW). Established as one of the major departments of the Institute, since its inception in 1959, the Department of Mechanical Engineering has been actively engaged in teaching and research in diverse fields of Mechanical Engineering. With excellent faculty, the Department of Mechanical Engineering offers Under Graduate (B.Tech.) and Post Graduate (M.Tech) in Automobile Engineering, Computer Integrated Manufacturing, Additive Manufacturing, Machine Design, Manufacturing engineering, Materials and System Engineering Design & Thermal Engineering and research (Ph.D) programmes.



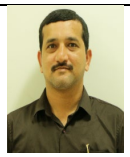
Publications	Journals	203
	Conferences	77
	Books	3
	Book Chapters	16
Academic Programs	UG	01
	PG	07
	PhD	01
Degrees Awarded	UG	146
	PG	107
	PhD	22
FDP/conferences Organized		14
Number of Staff		21

Faculty and their Specializations:

Sl. No.	Photo	Name and Qualifications	Major Areas of Specialization
Professors (HAG)			
1.		Prof. K. Madhu Murthy Ph.D (NIT Warangal)	Thermal Engineering; IC Engines; Alternate Fuels; Entrepreneurship; Industrial and Small Enterprise Management
2.		Prof. C. Surya Prakasa Rao Ph.D (NIT Warangal)	Manufacturing: include CAD/CAM, CIM, Modeling & Simulation, Evolutionary Computation, Metal Cutting and Metal-Matrix Composites
3.		Prof. L. Krishnanand Ph.D (NIT Warangal)	Industrial Engineering; CAD/CAM; Supply Chain Management; Additive Manufacturing
4.		Prof. S. Srinivasa Rao Ph.D (IIT Bombay)	Two-phase flow, I.C. Engines, Experimental Heat Transfer, Solar Energy
5.		Prof. P. Bangaru Babu Ph.D (IIT Madras)	Mechanical Vibrations; Vibration Control; Finite Element Analysis; Mechanism Science; Engineering Design, Rotor Dynamics, Vehicle Dynamics

6.		Prof. A. Venu Gopal Ph.D (IIT Delhi)	Conventional and Un-Conventional Machining, Coatings for High-Speed Machining, Rapid Prototyping, Metrology
7.		Prof. N. Selvaraj Ph.D (NIT Warangal)	Modeling and Simulation, Flexible Manufacturing System, CNC Technology, Machine Tool, Additive Manufacturing, Composite Materials, and Pull systems
8.		Prof. P. Ravi Kumar Ph.D. (NIT Warangal)	I.C. Engines, Alternate Fuels, Design of Air Car, Fuel Cell Car (Solar/Hydrogen), Flying car, Engine Simulation, Lean burn combustion, Adiabatic engine, CNG & HCNG engine, Exhaust gas re-circulation, Turbocharger engines
9.		Prof. G. Amba Prasada Rao Ph.D (NIT Warangal)	IC Engines; Engine Exhaust emission control; Alternate fuels; HCCI Combustion
Professors			
10.		Prof. V. Suresh Babu, Head Ph.D. (IIT Delhi)	Machine Dynamics, Analysis of Mechanism, Composite Material, Functional Graded Materials, Condition Monitoring and Fault Diagnosis
11.		Prof. K.V. Sai Srinadh Ph.D (IIT BHU)	Mechanical behavior of materials, Manufacturing process
12.		Prof. R. Narasimha Rao Ph.D. (MANIT, Bhopal)	Tribology, Kinematics & Dynamics, Machine Design, Vibrations, FEM, Advanced Composites
13.		Prof. Adepu Kumar Ph.D (Osmania University Hyderabad)	Friction stir welding/Processing, Additive Manufacturing, Electrical Discharge Machining of Titanium and super alloys, Fabrication and characterization of Micro and Nano composites
14.		Prof. A. Veeresh Babu Ph.D. (Andhra University)	IC Engines, Alternate Fuels, Emissions control, Fuel cells, Refrigeration and Air-conditioning
15.		Prof. M. Joseph Davidson Ph.D. (NIT Warangal)	Metal Forming, CAD/CAM, Wire Arc Additive Manufacturing
16.		Prof. Y. Ravi Kumar Ph.D. (Osmania University)	Additive Manufacturing; 3D Printing and its Medical Applications

17.		Prof. P. Subash Chandra Bose Ph.D. (NIT Warangal)	Machining of high temperature and super alloys, CNC technologies, Optimization techniques, Fabrication and machining of ceramic composites, Additive manufacturing, Laser Assisted Machining of MMC, Ceramics Composite, Super Alloys, Characterization of composites
18.		Prof. V. Vasu Ph.D. (JNTU Hyderabad)	Nano lubricants, Nanocomposites, Nano tribology, Robotics, Mechatronics & IIoT, Smart Manufacturing, Predictive Maintenance of Machine Tools (RUL)
19.		Prof. G. Naga Srinivasulu Ph.D (Andhra University, Vizag)	PEM Fuel Cells; I.C. Engines; Heat Transfer and Turbo machines
20.		Prof. P. Vamsi Krishna Ph.D (Andhra University)	Solid lubricants in machining process, Nano cutting fluids, Vibration Assisted Machining, Modeling and Simulation of Manufacturing Processes, Composite Materials
21.		Prof. K. Kiran Kumar Ph.D. (IIT Kharagpur)	Thermal Engineering; Heat Transfer; Nanofluids; Thermal Management of Electronics, Refrigeration & Air-Conditioning; CFD; Non-Conventional Energy sources
22.		Prof. V. Rajesh Khana Raju Ph.D. (IIT Kharagpur)	Fluid Dynamics; Heat Transfer; CFD; Combustion; Microfluidics
23.		Prof. Srikanth Korla Ph.D (Florida International University)	Structural Health Monitoring, Vibration Analysis and Energy Harvesting, Fiber Metal Laminates, Product Design
24.		Prof. Hari Kumar Voruganti Ph.D. (IIT Kanpur)	Shape and Topology Optimization for Design, Geometric Modeling for CAD, Finite Element / Isogeometric Analysis, Robotics (Robot Kinematics and Path Planning), Artificial Intelligence for Design
25.		Prof. D. Jaya Krishna Ph.D. (IIT Madras)	Phase Change Materials; Utilization of Solar energy; Computational Fluid Dynamics (CFD); Thermal Energy Storage; Heat transfer in porous media; Thermal management of batteries/electronic components
26.		Prof. Beera Satish Ben Ph.D. (Andhra University)	Structural Health Monitoring, FRP Composites, Self-healing polymer composites, and Adhesive Bonding

27.		Prof. Chandra Mohan, V.P. Ph.D. (IIT Delhi)	Solar drying, Solar Updraft Tower, Computational Fluid Dynamics, Convection and conduction heat transfer, Drying and Simultaneous solution of heat and mass transfer, Renewable Energy Sources
Associate Professors			
28.		Shri G.R.K. Gupta M.Tech (IISc Bangalore)	CFD, Turbomachines, Jet propulsion
29.		Prof. T. Sadasiva Rao Ph.D (NIT Warangal)	Manufacturing Technology, Foundry Technology
30.		Prof. Syed Ismail Ph.D. (IIT Kharagpur)	Tribology; Surface Texturing; Lubrication; Nano-lubricant; Surface Coatings; Composites; Laser Ablation
31.		Prof. Karthik Balasubramanian Ph.D (NUS, Singapore)	Microchannel Flow Boiling; Phase Change Heat Transfer; Microfluidics; Thermal management; Solar Thermal; Solar PV and Hybrid systems; HVAC systems
32.		Prof. P. Ravi Kumar Ph.D. (IIT Guwahati)	Compressible flows, CFD, Thermal Management of Li-Battery and Design and fabrication of thin film sensors for hypersonic flow application
Assistant Professors			
33.		Prof. Gujjala Raghavendra Ph.D. (NIT Rourkela)	Composites, Nanomaterials, Tribology, Polymer, FGM
34.		Prof. Gudipadu Venkatesh Ph.D. (IIT Roorkee)	Machine Learning applications in manufacturing, Abrasive Flow Machining; Magnetic Abrasive finishing; Microwave Material processing; Hybrid Machining; Advanced Manufacturing Processes; Surface Engineering, Computational Intelligence in Manufacturing
35.		Prof. P. Suresh Ph.D. (IIT Madras)	Distributed-Reconfigurable (1D-3D) and Integrated macro/microsensors design, Non-Destructive Testing and Wave Propagation, Temperature-dependent materials property measurement of solids/fluids, Also, interest in Advanced Energy
36.		Prof. Marrapu Bhargava Ph.D. (IIT Bombay)	Metal forming - sheet metal forming- formability evaluation and prediction; Hydroforming; Formability at elevated temperatures; Mechanical behaviour of materials; Heat treatment processes; Material model development

37.		Prof. Chilukoti Hari Krishna Ph.D. (Tohoku University, Japan)	Nanoscale heat transfer, Mass transfer, Interfacial phenomenon, 2D materials, Evaporation, Molecular dynamics, Phase change materials
38.		Prof. Anant Kumar Rai Ph.D. (IIT Roorkee)	Fluid mechanics, Hydraulic turbines, Turbomachinery, Hydropower, Renewable Energy, Material wear testing, Sediment Transport
39.		Prof. Shivraman Ph.D. (IIT Roorkee)	Wire arc additive manufacturing, Machine learning in welding and AM, Friction stir welding and processing; Welding and welding metallurgy; wear behavior of materials
40.		Prof. Manjaiah M Ph.D. (NIT Surathkal)	Metal Additive Manufacturing; Advanced Manufacturing processes; Post processing of AM parts; Shape Memory Alloys
41.		Prof. Gaurav Kumar Sharma Ph.D. (IISc Bangalore)	Computer Aided Design, Product Design, 3D Printing, Digital Manufacturing
42.		Prof. Satyanand Abraham Ph.D. (IIT Bombay)	Heat transfer enhancement techniques and devices, thermal management of electronic package, gas turbine components and vehicle battery, waste heat recovery, surface wettability
43.		Prof. Gangadharudu Talla Ph.D. (NIT Rourkela)	Modern machining processes, Hybrid machining, Modelling and optimization
44.		Prof. Thamarai Selvan Ph.D. (IIT Bombay)	Computational Solid Mechanics, Contact Mechanics, FEM, FGM, Layer Substrate Systems
45.		Prof. Prasanth Anand Kumar Lam Ph.D. (IIT Madras)	Computational Fluid Dynamics, Turbulence, Aerodynamics, Fluid-Structure Interaction, Biofluid Mechanics, Heat Transfer Augmentation and Refrigeration & Air-Conditioning
46.		Prof. Chinige Sampath Kumar Ph.D. (IIT Madras)	High Heat Flux Cooling Applications; Jet Impingement Cooling; Porous Media; Lattice Boltzmann Method
47.		Prof. Srinagalakshmi Nammi Ph.D (IIT Madras)	Laser Machining, Texturing, Advanced Micro Machining, Optical Sensing, Mechatronics

48.		Prof. P. Ramesh Babu Ph.D. (IIT Guwahati)	Machine Design Experimental Aerodynamics, Underwater Force Measurement, Vibration Analysis of Systems, Bio-Medical Application of Shock Waves
49.		Prof. Vijay Choyal Ph.D. (IIT Indore)	Machine learning for materials design, Computational materials science, Multiscale modeling of materials, Smart materials and structures, Batteries, Nanomechanics of Carbon and Boron Nitride (BN) based nanostructures

PhD Degree Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)
1.	A Ramana Reddy	Tribological Performance of Single and Multi-Scale Textured Sliding Contacts under Lubricated Conditions	Syed Ismail
2.	K Nagendra Prasad	Surface treatments on HSS Cutting Tool for sustainable machining	Syed Ismail
3.	K.A.S. Raghavan	Numerical Investigation O The Effect Of Geometric Parameters On The Combustion Characteristics Of A Micro-Combustor With A Controlled Centrally Slotted Bluff Body Fueled With Premixed H 2 −air	V R K Raju & S. S. Rao
4.	Venkata Ramanaiah	Investigation of bond strength between Aluminium and CFRP composite for improved structural performance	K V Sai Srinadh & Satish Ben
5.	Kameshwar Reddy	Mechanical and Tribological Behavior of Tungsten Carbide Nanoparticles Filled Carbon – Epoxy Polymer Hybrid Nanocomposites	K.V. Sai Srinadh & V Suresh Babu
6.	Saravana Sundar. A	Effectiveness of Static Shoulder Friction Stir Welding in Joining Dissimilar Metals of Al6061 to Ti6Al4V	Adepu Kumar
7.	M. Nitin Kumar	Augmentation Of Heat Transfer Through Radial Curved Micro Channels	Karthik Balasubramanian
8.	Ajoy Kumar Nandy	Heat transfer through porous fin microchannels	Karthik Balasubramanian
9.	Abhishek Kumar	Ultrasonic waveguide techniques for level sensing and adulteration detection of fluids	P. Suresh
10.	T.Ramalingam	Machinability studies and mechanical behavior of quartz cyanate ester polymetric composite	N. Selvaraj

11.	N V Raghavaiah	Experimental Investigations on Performance of Passive Direct Methanol Fuel Cell with different Current Collector Materials using Tapered Cylindrical Openings, employing Variable Dynamic Regions, and Identification of Service-Oriented Degradation	G. Naga Srinivasulu
12.	Kamepalli Anjaneyulu	Numerical and Experimental Investigations of Ultrasonic Assisted Magnetic Abrasive Finishing process on Hastelloy C-276	Gudipadu Venkatesh
13.	K. Vijaya Bhaskar Reddy	Numerical and Experimental Studies on Microwave-Welded Similar and Dissimilar Joints of Stainless Steel (316L) and Hastelloy (C-276)	Gudipadu Venkatesh
14.	Gundalabhagav an Amarnath	A Numerical study on performance enhancement of PEM Fuel cells using Variable Length Serpentine Flow Field	A.Veeresh Babu
15.	Naresh Kali	Development and insight studies on hybrid fibre metal laminates (FMLs) for aerospace and structural applications	Srikanth Korla
16.	Somaiah Chowdary	Development Of Glass/Kevlar /Sisal Hybrid Polymer Nanocomposite For Mechanical And Tribological Applications	G. Raghavendra
17.	Ambadas	Dissimilar joining of Ti-6Al-4V to pure Aluminium for Aerospace pressure vessel Applications	Adepu Kumar

DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

The Department of Metallurgical and Materials Engineering (formerly known as Department of Metallurgical Engineering) was established in the year 1965 with an intake of 30 students. A post-graduate programme in Industrial Metallurgy was introduced in the year 1983 with an intake of 10 students. The Department is also offering a Ph. D. programme since 1983. Department has also introduced another M. Tech. programme in Materials Technology from the academic year 2011-2012. In 2023-24 Academic Year, the Department started a new M.Tech. Program in Welding Technology and Non-destructive Testing.

The main areas of study in Metallurgical and Materials Engineering include Physical Metallurgy, Extractive Metallurgy (Iron, Steel and Non-ferrous Metal extraction), Mineral Processing, Heat Treatment of Steels, Manufacturing Technologies (Metal Casting, Metal Forming, Powder Metallurgy and Welding), Mechanical Metallurgy (includes Material Testing – Destructive and Non-Destructive), Corrosion Engineering, and Materials Characterization Techniques etc. In view of the increasing demand in materials development, the department has introduced new subjects in its curriculum with materials background in the year 2004. Accordingly, the scheme of instruction has been enriched with subjects on advanced materials like Composite Materials, Ceramics, Polymers, Nanomaterials, Computer Applications in Metallurgical and Materials Engineering etc. in addition to the above main areas. The laboratories of the Department are well furnished with the state-of-the-art equipment.







Publications	Journals	44
	Conferences	-
	Books	-
	Book Chapters	-
Academic Programs	UG	01
	PG	02
	PhD	01
Degrees Awarded	UG	66
	PG	09
	PhD	04
FDP/conferences Organized		01
Number of Staff		07

Faculty and their Specializations:

Sl. No.	Name and Qualifications		Major Areas of Specialization
Professor (HAG)			
1.		Prof. G. V. S. Nageswara Rao Ph.D. (NIT Warangal)	Mechanical Metallurgy; Material Testing and Characterization; Creep, Fatigue and Creep-Fatigue Interaction studies; Thermo Mechanical Processing of Steels; Tribology
Professors			
2.		Prof. N. Kishore Babu, Head Ph. D. (IIT Madras)	Metal Joining, Additive manufacturing, Nanocomposites
3.		Prof. N. Narasaiah Ph. D. (IIT Kharagpur)	Mechanical Behaviour of Materials, Fatigue, Fracture Mechanics, Failure Analysis

4.		Prof. C.Vanitha Ph. D. (IIT Bombay)	Additive manufacturing, Corrosion, Texture, Friction stir Welding
5		Prof. Asit Kumar Khanra Ph. D. (IIT Kharagpur)	Powder Metallurgy, Processing of Advanced Ceramics, Corrosion, Biomaterials, Electrical Discharge Machining (EDM) and Deformation behaviour
6		Prof. T. Mahesh Kumar Ph. D. (IIT Madras)	Metal Joining, Additive Manufacturing, High Temperature Materials
Associate Professors			
7.		Prof. Brahma Raju Golla Ph.D. (IIT Kanpur)	Ultra High Temperature Ceramics, Advanced Materials Processing, Tribology
8.		Prof. B. Srinivasa Rao Ph. D. (NIMS Japan)	Process- Microstructure- Property Relationship, Nanocrystalline Materials
9.		Prof. Ajoy Kumar Pandey Ph. D. (IIT Kharagpur)	Mechanical Metallurgy, Bio-Ceramics, Powder Metallurgy
10.		Prof. R. Arockia Kumar Ph. D. (KAIST South Korea)	Shape Memory Alloys, Friction Stir Processing, Physical Metallurgy, Severe Plastic Deformation
Assistant Professors			
11.		Prof. Varam Sreedevi Ph.D. (University of Hyderabad)	Development of Al based alloys/composites for H2 generation; Machine learning for phase/property prediction of materials; Synthesis of bulk nanocrystalline materials; Mechanical behavior of materials
12.		Prof. V. Rangadhara Chary Ph. D. (NIT Warangal)	High Performance Structural, Ceramics, Phase Transformations, Corrosion of Weldments, Polymer Nanocomposites
13.		Prof. Uma Maheswara Rao S Ph. D. (University of Central Florida)	Non-equilibrium Processing of Materials, Advanced Characterization, Magnetic Materials

14.		Prof. Sukla Mondol Ph. D. (IISc Bangalore)	Alloy development, light alloys, Microstructural characterization, TEM
15.		Prof. Sanghamitra Moharana Ph.D. (University of Warwick)	Fusion Alloys, Automotive Steels, Dissimilar metal welding, Phase Transformation, Alloy Design.
16.		Prof. Bharath Bandi Ph.D. (University of Warwick)	Energy materials, Batteries, Lithium-ion batteries, Degradation mechanism, Characterisation techniques.

PhD Degree Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)
1.	C. Ravikanth Reddy	Development of high strength Mg-Ni-Gd and Mg-(Ni,Zn)-Gd-Li alloys	B. Srinivasa Rao
2.	Bhav Singh	Ballistic Impact Studies on High Nitrogen Steel for Armour Applications	R Arockia Kumar, V Madhu
3.	K. Vamsi Krishna	Studies on microstructural and mechanical properties of Ti-15V-3Al-3Cr-3Sn electron beam and gas tungsten arc weldments	N. Kishore Babu

DEPARTMENT OF PHYSICS

The Department of Physics was established in 1959, the very year of inception of the then REC, Warangal. The department offers postgraduate and doctoral programs in addition to catering the physics requirements of engineering programs. The department has excellent infrastructure available for pursuing research in cutting edge technologies. M.Sc. (Tech.) Engineering Physics, has been a flagship program of the department. The program was introduced in the year 1970 under UNESCO's sponsorship, with the active association of experts from UK and Russia. Further, M.Sc. (Tech.) is an industry-oriented program and is structured on par with the then PG programs of engineering with one full semester for dissertation work and eight weeks of sandwiched industrial training. The program of M.Sc. (Tech.) enjoys 100% job potential right from its inception with placements in the best of industry and R & D organizations within the country and abroad. Currently two specializations – electronics & instrumentation, photonics are being offered. Recognizing the need for creating a talent pool in physical sciences, in tune with NEP 2020, the department has introduced a 5-year integrated M. Sc program. Further, the department offers, engineering physics, open electives minors for all B.Tech programs and electives to different M. Tech programs. The department is actively engaged in research with number of sponsored R&D projects under execution. The specific areas of research include Materials for energy harvesting, Super capacitors, Glasses and Glass ceramics, Biomaterials, Luminescent materials, Ferroelectrics, Magnetic materials, Polymer degradation studies, Photonics, Electronics, Medical Instrumentation, tropospheric radio propagation, Fiber optic Sensors, High temperature measurement, Holographic NDT, Microcontrollers and communication, Nano Ferrites & Nano Composites, Nanophosphors & Bio Glass Ceramics, Optical system design, Organic Light Emitting Diodes, Organic, polymer & Dye-sensitized solar cells, Semiconductor quantum dots/2D materials, Perovskite solar cells, Pressure sensing, Liquid Crystals, Microfluidics, Transparent conducting thin films, Vibration measurement, Theoretical physics ,statistical physics, soft matter , biophysics and other frontier areas . A grant of Rs.2.75 Crores was received by the department under the first phase of FIST program of DST (Govt of India) to establish FE-SEM and XRD facilities. The department has liaison with reputed industries and R&D organizations like BEL, CSIR, DRDO, DST, BARC, ELOIRA, RCI, ARCI, CSIO, LRDE, IRDE, Maharashtra Bamboo Development Board, Simply Fresh, Nutranxt Biotech Pvt Ltd., Kataline Infra Products Pvt Ltd.



Publications	Journals	109
	Conferences	33
	Books	-
	Book Chapters	11
Academic Programs	UG	-
	PG	01
	PhD	01
Degrees Awarded	UG	-
	PG	49
	PhD	07
FDP/conferences Organized		03
Number of Staff		08

Faculty and their Specializations:

S. No.	Name and Qualifications		Major Areas of Specialization
Professors			
1.		Prof. T Venkataapa Rao, Head Ph.D. (Kakatiya University)	Green Nanomaterials; Polymer Nanocomposites; Biosensors
2		Prof. D. Dinakar Ph. D. (NIT Warangal)	Electronics, fiber optic sensors and Material Science
3.		Prof. D. Haranath Ph.D. (Shivaji University, Kolhapur, Maharashtra)	Luminescence, Nanomaterials, Photonics, Sol-gel Technology, Nanophosphors, Porous Materials, Aerogels, Fractals and their Applications
4.		Prof. K. Thangaraju Ph.D (Anna University)	Organic Semiconductors, Optical and Electrical Properties of Organic Semiconductors; Organic Light Emitting Diodes (OLEDs), Phosphorescent OLEDs; Organic Solar Cells (OPVs), Organic/Inorganic Hybrid Nanostructures, Organic/inorganic hybrid based optoelectronic devices, Hybrid UV Photodetectors.
5.		Prof. P. Abdul Azeem Ph.D. (Sri Krishnadevaraya University)	Biomaterials for tissue engineering, drug delivery, imaging, Glass science, Photonic crystals, Luminescent materials and Devices, optical system design, Supercapacitors, energy storage
6.		Prof. P. Syam Prasad Ph.D. (Achariya Nagarjuna University)	Glasses and glass-ceramics for Photonic and biomedical applications
7.		Prof. Sourabh Roy` Ph.D (IIT Kharagpur)	Photonics, Guided Wave Optics, Fiber Optic sensors and devices, Beam Optics, Polarization Optics, Optical System Design, Illuminations
Associate Professors			
8.		Prof. D. Paul Joseph Ph. D. (University of Madras)	Materials Science, Condensed Matter Physics – Experimental
9.		Prof. V. Jayalakshmi Ph.D. (Centre for Nano and Soft Matter Sciences, Bangalore)	Microfluidics, Biosensor, Gas sensors, UV Photodetectors, Confinements effects, Soft actuators, Smart Windos.

10		Prof. Kusum Kumari PhD (IIT Delhi)	Nanomaterials, Perovskite Solar Cells & Organic Solar Cells
Assistant Professors			
11.		Prof. Aalu Boda Ph.D. (University of Hyderabad)	Theoretical Condensed Matter Physics: Low-Dimensional Systems (QWs, QDs), Spintronics, Density Functonal Theory.
12.		Prof. Hitesh Borkar Ph. D (AcSIR CSIR NPL New Delhi)	FerroelectricsElectroceramicsOpto-electronic materialsEnergy storage materials
13.		Prof. K Uday Kumar Ph.D. (IIT Madras)	2D materials, Energy Storage, Energy harvesting, Metal organic frame works, Electrochromics, Transparent conducting oxides
14.		Prof. R. Rakesh Kumar Ph.D. (IISc Bangalore)	2D materials, Energy harvesting, Green Hydrogen, IoT sensors, Metal organic frame works, Nanogenerators, Piezoelectric nanogenerators, Porous Materials, Self-powered devices and sensor, Triboelectric nanogenerators
15.		Prof. Surya K. Ghosh Ph.D. (IIT Bombay)	Soft Matter, Biophysics, Statistical Mechanics, Computational Physics
16.		Prof. Vijay Kumar Ph.D. (University of Hyderabad)	Machine Learning, Deep learning, Optical Angular Momentum, Optical communication, Quantum information, Fiber optics, Nano-Optics, Singular Optics, Correlation Optics; Spin-Orbit interactions: Structured Light-matter Interactions.

PhD Degree Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)
1	Siju Mishra	Design and Development of Zinc Sulfide-based Nanogenerators: A Step Towards Green Energy Harvesting	D Haranath, R Rakesh Kumar
2	L Uma Chandi	Design and Development of Digital Micromirror Device Based Near Infrared Spectrometer for Food Quality Testing	Sourabh Roy Ramesh Dantala
3	Supraja Potu	Design and Development of ZnO Nanosheet based Nanogenerators	R. Rakesh Kumar
4	S.C. Rakesh Roshan	Understanding phonon transport in extended solids	R. Rakesh Kumar
5	Reddivari Muniramaiah	Noble Metallic Multi-layer and Tin Oxide Based Alternative Transparent Conducting Electrodes for Optoelectronic Devices	D. Paul Joseph
6	Kaitha Rajaiah	Studies on Coherent Population Trapping Resonance in Rubidium for Application in Atomic Clocks and Timekeeping Methodology for Satelite Navigation	T Venkataapa Rao, P C Upadhya

CENTRAL RESEARCH INSTRUMENATION FACILITY

STUTI Training Programs: 36 out of 39 training programs on sophisticated analytical instruments were conducted under Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (STUTI) funded by the Department of Science and Technology (DST) in the previous academic year. Balance 3 are conducted in this Academic year July 2023 to June 2024.

Around 100 participants of various backgrounds and disciplines including research scholars, post doctoral fellows, faculty, technical staff and industry personnel from all parts of the country were trained on both the theory and hands-on-training on high-end analytical equipment and emerging technologies.

S. No.	Dates of the Training Program	Theme	Venue of the program
1.	08th - 14th August, 2023	Hands-on Training on Soft computing techniques & Machine learning Algorithm	Bannari Amman Institute of Technology, Sathyamangalam, Erode, Tamil Nadu
2.	17th - 23rd August, 2023	Physico-chemical Characterization of Functional Materials	Central University of Kerala, Kasaragod, Kerala
3.	16th - 22nd August, 2023	Artificial Intelligence and Machine Learning using MATLAB/Python for Engineering and Biomedical Applications	National Institute of Technology Warangal

Laboratory Course to B.Tech students:

BT407 Instrumentation & Analytical Methods in Biotechnology Lab to IV year B.Tech students was conducted by Technical Officers Mr. Harish Madupu and Mr. D Ravikumar.

BT354 Analytical Biotechnology Lab Course for III year II-semester B.Tech students was conducted by Technical Officers Mr. Harish Madupu and Mr. D Ravikumar.

New equipment installations:

Digital Microscope, PCB Etching Facility, Hot Air Oven, Dry Box and Ultra Bath Sonicator



Digital Microscope

Lecture, Workshop and demo on PCB Prototype Machine:

- Lecture & Demonstration on PCB Design Tutorial (Eagle Software & Design) for the intern ECE students on 4th June 2024 conducted at Vishveswaraya Skill Development Centre NIT, Warangal

- Services to other departments (ECE) gave a Lecture & demonstration on PCB Design Tutorial (Eagle Software & Design) for the JOY OF ELECTRONICS of 1st year ECE 180 students (each batch 60 Students) conducted at Vishveswaraya Skill Development Centre NIT, Warangal
- One day workshop for PhD Scholars on PCB Prototype Machine organized by Central Research Instrumentation Facility (CRIF) National Institute of Technology, Warangal and Sponsored by Solstrum Energy systems Pvt. Ltd, Hyderabad.

Maintenance of the Employees Facial Recognition Attendance System in the Institute.

Maintenance of AMC for UPS (1KVA to 40 KVA) in the all Departments of the Institute.

NEW FACILITIES



New Air-conditioned 50 seater bus



Student mobility in the campus
(Thanks to generous donation by Shri Venu Nuguri, (B.Tech, EE, 1982, NITW) Managing Director & CEO of Hitachi Energy in India and South Asia)

CAMPUS INFRASTRUCTURE

Improved pedestrian walkways have been laid, and the re-carpeting of roads have been completed. Renovation of Boys Hostels, Bhaba and Gokhale Halls was made, with a budget of over Rs 6 crore. A state-of-the-art Waste Management facility has been established. Serving as both a laboratory and a hub for campus sustainability initiatives, it aims to advance eco-friendly practices and research. The blacktopping of academic, hostel and residential areas has significantly enhanced the aesthetic look. Another significant milestone is the completion of the Institute Health Centre, offering enhanced healthcare services to the campus community. The Institute has also completed the construction of a new substation.





Ongoing Constructions

Additionally, the substation near the main gate is being relocated to the existing substation near the new post office. The development of pedestrian pathways from the second gate to the post office in the first phase, is being completed and it is also planned to extend it up to the Vikram Sarabhai Hostel in the future.



Two new ladies' hostels, with a capacity to accommodate 964 students, are under construction. The project, with an estimated cost of Rs. 56.52 crore funded through the EWS fund, is progressing well. Plans for an additional ladies' hostel to house 560 more students have been approved by the Board.

Future Plans

The Institute has the futuristic plan for infrastructure development, including the expansion of the ladies' hostel, the construction of a Lecture Hall Complex, and residential quarters for faculty and staff. These projects will be funded through HEFA loans. Additionally, several other initiatives have been approved and are set to commence soon. A 2,500-seat Amphitheatre with a budget of Rs. 43 crore, a new canteen at Rs. 11 crore, and the renovation of the auditorium are about to begin. Plans are also made to revamp the IP phone system, to install CCTV cameras at strategic locations, and to renovate the G1 and G2 quarters in the north campus.

In the near future, the south campus will see the addition of three large parking spaces, an expanded main gate and entry road, and a new food court in the premises of the amphitheater. Other projects include the renovation of Civil, Mechanical, and Electrical Department buildings, landscaping the lawns and fountains, creation of sufficient sitting spaces for Research Scholars, and the renovation of residential quarters.

COMPUTING INFRASTRUCTURE AND DIGITAL GOVERNANCE

The Centre for Digital Infrastructure and Services is continuously upgrading the computing facilities for the UG and PG students to conduct experiments in their respective domains. Recently, an initiative has been taken to procure high-end computers supporting nextgeneration computing requirements. The Institute also plans an in-house HPC facility for various departments to conduct state-of-the-art research. The Institute provides licensed software like Microsoft Operating Systems, Microsoft Office, MATLAB, etc., for the stakeholders. Through LAN and WiFi, the Institute provides high-speed internet connections on campus, including hostels and academic areas. New fibre optic cables have been laid for enhancing the high speed connectivity. The Network Infrastructure includes over 1 Gbps internet connectivity. The Institute also provides AMC for computer hardware, various software and internet LAN facilities. In alignment with the Government of India's vision for Digital India, NIT Warangal has introduced the e-Office system, for effective and transparent governance, marking a significant milestone in modernizing administrative processes and promoting digital governance.

Part - II

ANNUAL ACCOUNTS FOR THE YEAR 2023-24

NATIONAL INSTITUTEOF TECHNOLOGY WARANGAL
CONSOLIDATED BALANCE SHEET AS AT 31-03-2024

(Amount in Rupees)

SOURCES OF FUNDS	SCHEDULE	Current Year	Previous Year
Corpus / Capital Fund	**1**	4,90,19,20,985	8,42,21,14,459
Designated / Earmarked / Endowment Funds	**2**	1,16,09,84,081	1,17,42,65,506
Current Liabilities & Provisions	**3**	4,83,24,44,508	40,13,75,414
TOTAL		**10,89,53,49,574**	**9,99,77,55,379**
APPLICATION OF FUNDS			
-			
Fixed Assets	**4**		
-- Tangible Assets		4,47,98,03,706	4,54,36,19,533
-- Intangible Assets		4,70,18,787	4,54,77,493
-- Capital Work in progress		21,56,46,606	21,56,46,606
Investments	**5**		
-- Long Term		-	-
-- Short Term		78,48,68,537	78,32,58,537
Investments - Others	**6**	-	-
Current Assets	**7**	4,35,87,89,439	3,82,26,73,723
Loans, Advanes & Deposits	**8**	1,00,92,22,498	58,70,79,486
TOTAL		**10,89,53,49,574**	**9,99,77,55,379**
Significant Accounting Policies	**23**		
Contingent Liabilities and Notes to Accounts	**24**		

NATIONAL INSTITUTEOF TECHNOLOGY WARANGAL
CONSOLIDATED INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2024

Income	SCHEDULE	Current Year	Previous Year
Academic Receipts	**9**	48,78,91,317	47,64,07,200
Grants / Subsidies	**10**	2,54,63,00,000	2,31,40,93,699
Income from Investments	**11**	19,64,19,962	16,74,48,883
Interest Earned	**12**	-	-
Other Income	**13**	18,76,03,950	10,38,90,581
Prior Period Income/Adjustment	**14**	73,19,800	-
TOTAL (A)		**3,42,55,35,029**	**3,06,18,40,363**
EXPENDITURE			
Staff Payments & Benefits (Establishment Expenses)	**15**	5,72,93,50,015	1,67,68,98,708
Academic Expenses	**16**	70,91,04,893	42,30,89,019
Administrative and General Exp	**17**	29,39,10,772	19,11,89,564
Transportation expenses	**18**	12,20,269	24,88,199
Repairs & Maintenance	**19**	14,98,35,038	10,57,46,942
Finance Cost	**20**	31,893	-
Depreciation	**4**	32,11,88,472	28,93,74,967
Other Expenses	**21**	1,090	2,90,291
Prior Period Expenses	**22**	-	2,19,87,190
TOTAL (B)		**7,20,46,42,442**	**2,71,10,64,881**
Balance being excess of Income over Expenditure (A-B)		(3,77,91,07,413)	35,07,75,482
Transfer to / from Designated Fund		-	-
Building Fund		-	-
Others if Any - Transfer to IRG		-	-
Balance being surplus (Deficit) carried to General Fund		**(3,77,91,07,413)**	**35,07,75,482**

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL

CONSOLIDATED RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31-03-2024

.				(Amount in Rupees)	
RECEIPTS	**Current Year**	**Previous Year**	**PAYMENTS**	**Current Year**	**Previous Year**
I. Opening Balances:			**I. Expenses**		
a) Cash in hand			a) Establishment Expenses	1,43,37,61,310	1,67,68,98,708
--- Main Cash Book	-	-	b) Academic Expenses	70,91,04,893	42,30,89,019
--- Petty Cash Book	-	-	c) Administrative Expenses	29,39,10,772	19,11,89,564
--- Imprest with Departments	5,80,000	5,90,000	d) Transportation Expenses	12,20,269	24,88,199
--- Fee Account (Cash)	-	-	e) Repairs & Maintenance	14,98,35,038	10,57,46,942
			f) Finance Cost	31,893	-
b) Bank Balances			f) Other Expenses	1,090	-
--- In Current Accounts	24,10,13,635	69,80,57,564	**II. Payments made against Earmarked / Endowment Funds**		
--- In Deposit Accounts	-	-	--- Earmarked Fund	27,12,03,034	64,39,42,008
--- Savings Account	31,60,97,135	96,48,00,548	--- Endowment Fund	6,55,035	3,59,630
			--- PF Subscription		-
			III. Payments against Sponsored Projects / Schemes	25,04,17,309	23,41,60,714
II. Grants Received			**IV. Payments against Sponsored Fellowships / Scholarships**	-	-
a) From Govt. of India					
--- Towards Capital Fund	26,00,00,000	29,31,00,000	**V. Investments and Deposits made**		
--- Towards Revenue Exp	2,54,63,00,000	2,31,40,93,699	a) Out of Earmarked / Endowments funds	16,10,000	2,34,65,876
--- L/Yr. Receivable	-	-	b) Out of Own funds	11,71,45,605	2,53,20,565
b) From State Government	-	-			
c) From Other Sources - TLC	-	-	**VI. Term Deposits with Scheduled Banks**	1,89,24,17,166	2,26,91,17,016
III. Academic Receipts (As per Annexure)	61,52,93,247	51,39,33,008	**VII. Expenditure on Fixed Assets and Capital Works - in - Progress**		
			a) Fixed Assets	25,89,13,939	43,42,41,272
IV. Receipts against Earmarked / Endowment Fund			b) Capital Work - in - Progress	-	21,56,46,606
--- Earmarked Fund	25,60,82,196	77,54,06,352	b) Fixed Assets (TEQIP)	-	7,11,68,434

--- Endowment Fund	14,00,000	2,32,47,684			
V. Receipts against Sponsored Projects / Schemes	30,78,66,016	16,87,38,048	**VIII. Other Payments including statutory payments**		
			--- Statutory Liabilities	34,24,48,288	32,87,61,660
VI. Receipts against Sponsored Fellowships and Scholarships	-	-	--- ICC - Consultancy Charges	-	1,12,205
			IX. Refunds and Grants	-	-
VII. Income on Investments from					
--- Earmarked / Endowment Funds	11,05,133	8,48,879	**X. Deposits and Advances**		
--- Other Investments	-	-	--- Other Deposits	2,38,52,504	3,36,66,594
			--- Advances Accounts	13,91,74,544	22,56,46,997
VIII. Interest received on					
--- Bank Deposits	18,98,25,061	11,23,99,540	**XI. Other Payments**		
--- Loans and Advances	-	-			
--- Savings Bank Account	65,94,901	5,50,49,343	--- Outstanding Liabilities	12,72,33,417	10,51,43,842
			--- Purchases Accounts	2,35,38,517	-
IX. Investment encashed	-	-	--- Deposit with TSNPDCL	49,17,840	13,58,200
			--- Deposit with Special Court	22,28,66,867	-
X. Term Deposits with Scheduled Banks encashed	1,12,33,28,995	63,19,41,982	--- Tuition Fee Receivable - ICCR	1,09,27,800	-
			--- Depreciation (CAG Comments)	-	2,52,53,568
			--- Interest accrued on Endowment FD	4,05,20,067	1,87,21,156
			--- Interest transfer to Research Projects	-	2,90,291
XI. Other Income (including PPI)			--- Interest receivable on STDR's	15,19,70,211	28,08,151
--- Income from L & B	5,69,17,673	2,81,41,803	**XII. Closing Balances**		
--- Other Income	1,06,04,147	3,82,22,970	a) Cash in hand		
			--- Main Cash Book	-	-
XII. Deposits & Advances			--- Petty Cash Book	-	-
--- Other Deposits	2,60,98,332	3,43,98,108	--- Imprest with Departments	5,45,000	5,80,000
--- Advances Accounts	2,04,79,919	32,29,00,665	--- Fee Account (Cash)	-	-
XIII. Miscellaneous Receipts including Statutory Receipts			**b) Bank Balances**		
--- Statutory Liabilities	33,99,61,133	32,98,33,116	--- In Current Accounts	6,72,28,629	24,10,13,635
--- Miscellaneous Receipts	-	-	--- In Deposit Accounts	-	-

XIV. Any Other Receipts			--- Savings Account	12,88,87,866	31,60,97,135
--- Purchase Accounts	2,35,55,102	-			
--- Interest receivable on STDR's	14,35,04,248	21,87,983			
--- Outstanding Liabilities	17,77,32,030	12,72,33,417			
--- CAG 2021-22 Adj)	-	15,41,73,513			
--- Elec & Water Charges receivable	-	2,68,77,560			
--- ICC - Consultancy Charges	-	1,12,205			
	6,66,43,38,903	**7,61,62,87,987**		**6,66,43,38,903**	**7,61,62,87,987**

No.DGA(C)/CEA/NITW/SAR 2023-24/2024-25 **Date: 02.12.2024**

सेवा में,

सचिव,

भारत सरकार,

शिक्षा मंत्रालय,

महोदय,

विषय: Separate Audit Report on the Accounts of the National Institute of Technology, Warangal, for the year 2023-24.

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Separate Audit Report on the Accounts of the National Institute of Technology, Warangal, for the year 2023-24, Annexure thereof and one copy of the Annual Accounts for the year 2023-24, are forwarded herewith for placing before both the Houses of Parliament.

The dates of presentation of Separate Audit Report in both the Houses of Parliament may please be intimated.

Receipt of this letter along with the enclosures may kindly be acknowledged.

भवदीया,

संल:यथोपरि

Sd/-

Director General of Audit (Central)

No.DGA(C)/CEA/NITW/SAR 2023-24/2024-25 **Date:02.12.2024**

Copy to Prof. Bidyadhar Subudhi, Director, National Institute of Technology, Warangal, along with one copy of Annual Accounts for the year 2023-24 (English version), with a request to furnish Hindi version of the approved Annual Accounts 2023-24 (2 sets), to this Office.

संल:यथोपरि

Chv. Jai Prasad

DIRECTOR/CENTRAL EXPENDITURE AUDIT
O/o DIRECTOR GENERAL OF AUDIT (CENTRAL)

Separate Audit Report on the Annual Accounts of the National Institute of Technology, Warangal for the year ended 31 March 2024

We have audited the attached Balance Sheet of National Institute of Technology, Warangal (NITW), as at 31 March 2024, the Income & Expenditure Account and Receipts & Payments Account for the year ended on that date under Section 19(2) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971, read with Section 22(2) of the National Institutes of Technology Act, 2007. These financial statements are the responsibility of the Institute's Management. Our responsibility is to express an opinion on these financial statements based on our audit.

2.This Separate Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc., if any, are reported through Inspection Reports/CAG's Audit Reports separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidence supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

4. Based on our audit, we report that:

i. We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit.

ii. The Balance Sheet and Income & Expenditure Account/ Receipts & Payment Account dealt with by this Report have been drawn in the Revised Format of Accounts, prescribed by Government of India, Ministry of Human Resource Development, for Central Educational Institutions.

iii. In our opinion, proper books of accounts and other relevant records have been maintained by the Institute as required, in so far as it appears from our examination of such books.

iv. We further report that:

Comment on Accounts

A Balance Sheet

A.1 Sources of Fund

A.1.1 Current Liabilities & Provisions-₹ 483.24 crore (Schedule 3)

A.1.1.1 Reference Number: OBS-1534527

The Institute had placed a purchase order for an amount of ₹37,93,000 to purchase a 50-seater bus in February 2024 and paid the amount to the agency in April 2024. However, the provision was not created in the year 2023-24 for the known liability. This resulted in an understatement of Current Liabilities & Provisions under Schedule 3 by ₹37,93,000.

A.1.1.2 Reference Number: OBS-1534548

An amount of ₹14,25,869 was withheld as unpaid/less paid Statutory Payments to Security Personnels by Agency. The withheld amount is a liability to the Institute which needs to be released after making payment of unpaid/less paid Statutory Payment to Security Personnels. However, the same was not shown as liability in the accounts which resulted in understatement of Liabilities under Schedule 3 (Current Liabilities and Provisions) to the extent of ₹14,25,869.

A.2 Application of Funds

A.2.1 Fixed Assets-₹ 447.98 crore (Schedule 4)

A.2.1.1 Reference Number: OBS-1501364

The Assets amounting to ₹1,94,01,233 procured from SRIC (Sponsored, Research, Industrial and Consultancy) Accounts were not shown under Schedule 4 (Fixed Assets). Non Accountal of Assets under SRIC Accounts in Consolidated Accounts resulted in understatement of Fixed Assets as well as Capital Fund (Schedule1) to an extent of ₹1,94,01,233 and understatement of expenditure in the form of deprecation.

Date	Item procured	Amount (₹)
30.5.23	Olympus Inverted Fluorescene Microscope Model 1x73	26,70,144
8.6.23	3D Scanner Einscan Pro 2 x Scanner	6,17,500
25.7.23	LCR Meter	67,958
8.8.23	Digital 3D Image Correlation System with accessories	65,39,001
29.8.23	HLBS CW 1000 T	3,00,753
5.9.23	Xerox Color Printer	3,18,637
25.9.23	Dell Precision Work Station	3,60,816
16.11.23	High Temperature Extensometer upto 1200 CC	11,26,224
16.11.23	Mounting Unit Upper Snsor with Ceramic Rod	5,41,728
20.12.23	Multiple Speed Loading Frame	7,95,000
4.1.24	HP Work Station	3,53,264
27.2.24	HEI VAP Expert Control Motor	4,98,000
15.3.24	Q41 Multi Sectral/Data Processing softare	13,90,476
31.3.24	3D Printers nano filled thermosetting resins	5,33,600

23.11.23	RDP Work Station	24,40,677
27.2.24	Split Tube Furnace	8,47,455
	Total	**1,94,01,233**

A.2.1.2 Reference Number: OBS-1498853

The Capital works amounting to ₹25,19,19,414 were completed during the year were not capitalised under Fixed Assets (Schedule 4). This resulted in an understatement of Fixed Assets (Schedule 4) as well as Capital Fund (Schedule-1) to an extent of ₹25,19,19,414. Further expenditure also understated due to non-levy of depreciation.

Sl.No	Name of the work	Amount Deposited (₹)	Expenditure as on 31.3.24 (₹)
1.	Renovation of Visitors Block Phase 2 (Balance 21 Rooms) for NIT Warangal	1,70,10,000	1,62,03,410
2.	Repair and Laying of Surface course with Bitumen over existing road south campus at NIT Warangal	98,12,600	93,40,511
3.	Construction of New Sheds for Waste Management Lab	2,90,67,367	2,90,55,367
4.	Re construction of Boundary Wall	8,55,58,222	8,53,82,388
5.	Construction of New Sub Station	2,95,32,000	2,87,48,216
6.	Construction and supplying and laying of LT Cables Dasa Hostel	40,97,600	29,66,887
7.	Special Repairs to Hostel Block No 1 Azal Hall	2,95,68,000	2,94,94,154
8.	Special Repairs to Hostel Block No. 2 Bose Hall	2,87,87,800	2,84,37,154
9.	Special Repairs to Krishna Mess	2,23,04,000	2,22,91,327
		Total	**25,19,19,414**

A.2.1.3 Reference Number: OBS-1523677

An amount of ₹ 6,45,48,553 incurred towards renovation of building and laboratory which were capital in nature, was shown under the head Other Expenses/Maintenance instead of showing them under Fixed Assets. This resulted in the understatement of Fixed Assets under Schedule 4 and overstatement of Expenditure in Income and Expenditure Account by ₹6,45,48,553.

Sl. No.	Name of the Work	Expenditure (₹)
1.	Supply and Installation of Electrical DBs and Exhaust Fans at various laboratories	43,25,693

2.	Stone Pitching to nalas with RR Masonry	19,21,224
3.	Provision of electrical wiring DBs, Power boards lights fans etc	34,66,230
4.	Providing New aluminum windows and changing rain water pipes	28,98,506
5.	Providing Vinyl Flooring in Central Library at NITW	21,70,354
6.	Supply, Installation Testing and Commissioning of LED Board lights etc	12,27,000
7.	Supply and Installation of Synthetic Surface in Badminton Court	12,45,000
8.	Supply, Installation testing and commissioning of Electrical Panels etc	1,55,35,785
9.	Supply and erection of poles, Led Fittings near 1 K Hostel	1,61,89,325
10.	Supply, Installation etc of 250 KVA DG Set	62,00,774
11.	Supply, Installation, testing etc of Motor Control Panels	28,98,253
12.	Renovation of Substation at NITW	20,11,579
13.	Renovation of Mathematics Department	44,58,830
	Total	**6,45,48,553**

A.2.1.4 Reference Number: OBS-1580010

(i) Expenditure Assets amounting to ₹5,16,56,849 incurred towards procurement of Assets were shown as current year expenditure under Repairs and Maintenance (Schedule 19) instead of taking the same as additions to Fixed Assets (Schedule 4).

Description of Asset	Additions as per Fixed Asset Register (₹)	Additions as per Books of Accounts (₹)	Short Additions of Assets (₹)
Electrical Installation & Equipment	2,25,56,997	-	2,25,56,997
Plant & Machinery	79,37,860	-	79,37,860
Audio Visual Equipment	20,49,546	12,26,949	8,22,597
Computers & Peripherals	2,58,82,329	80,25,321	1,78,57,008
Lib. Books & Scientific Journals	24,82,387	-	24,82,387
TOTAL	**14,88,86,649**	**18,96,42,466**	**5,16,56,849**

(ii) Further, additions to Scientific & Lab Equipment and Furniture & Fixture as per Fixed Assets Register were ₹ 8,79,77,530. However, the same were shown at ₹18,03,90,196 under Fixed Assets (Schedule 4). Thus, assets amounting to ₹ 9,24,12,666 were shown in excess in the Schedule 4-Fixed Assets.

The above resulted in overstatement of Fixed Assets (Schedule 4) as well as Capital Fund (Schedule1) by ₹4,07,55,817 (₹ 9,24,12,666- ₹ 5,16,56,849) and overstatement of Expenditure to the extent of ₹5,34,90,750 (₹5,16,56,849+depreciation ₹18,33,901) and thereby the overstatement of deficit to the extent.

Levy of deprecation on excess/short addition of Fixed Assets during the year 2023-24					
Description of Asset	Excess Additions of Assets (₹)	Short Additions of Assets (₹)	% of Dep.	Excess levy of deprecation (₹)	Short levy of deprecation (₹)
Electrical Installation & Equipment	-	2,25,56,997	5	-	11,27,850
Plant & Machinery	-	79,37,860	5	-	3,96,893
Scientific & Lab. Equipment	6,18,05,990	-	8	49,44,479	-
Audio Visual Equipment	-	8,22,597	7.5	-	61,695
Computers & Peripherals	-	1,78,57,008	20	-	35,71,402
Furniture, Fixtures & Fittings	3,06,06,676	-	7.5	22,95,501	-
Lib. Books & Scientific Journals	-	24,82,387	10	-	2,48,239
TOTAL	**9,24,12,666**	**5,16,56,849**		**72,39,980**	**54,06,079**

A.2.1.5 Reference Number: OBS-1580054

An amount of ₹58,57,822 incurred towards Renewal of E-Journal, Equipment and Software from January 2024 to December 2024 was shown under Schedule 4 Fixed Assets-Intangible Assets-E-Journals without apportioning the expenditure between the years 2023-24 & 2024-25. This resulted in overstatement of Fixed Assets (Schedule 4) understatement of Prepaid Expenses under Loans, Advances & Deposits (Schedule 8) by ₹ 43,93,367.

Particulars		Expenditure for the Year 2023-24 (₹)	Expenditure for the Year of 2024-25(₹)

	Total Payment (₹)	(01/2024 to 03/2024)	(04/2024 to12/2024)
Renewal of E-Journals by M/s IT Solutions, Pvt. Ltd, New Delhi	50,05,489	12,51,372	37,54,117
Renewal of E-Journal, from M/s BSB Pvt. Ltd , New Delhi	8,52,333	2,13,083	6,39,250
Total	**58,57,822**	**14,64,455**	**43,93,367**

A.2.1.6 Reference Number: OBS-1599325 & 1496941

As per Form 65, total deposits to CPWD as on 31 March 2024 were ₹26,74,67,553 (OB-₹22,74,67,553+Deposit during the current year-₹ 4,00,00,000) and an amount of ₹19,63,95,223 was expended towards works to the end of March 2024, leaving of balance of ₹7,10,72,330. However, under Schedule 8, deposits with CPWD were shown ₹17,00,37,693 (out of ₹27,60,03,678) having a difference of ₹9,89,65,363 (₹17,00,37,693 -₹7,10,72,330). This resulted in overstatement of Schedule 8 (Loans, Advances & Deposits) by ₹ 9,89,65,363.

(2) As per Form 65, an amount of ₹10,88,89,765 was incurred towards works during the year 2023-2024. However, the same was neither shown under Capital Work-in-Progress nor capitalised under Schedule 4. This resulted in an understatement of CWIP under Schedule 4 (Fixed Assets) by ₹ 10,88,89,765.

A.2.2 Loans, Advances & Deposits-₹ 100.92 crore (Schedule 8)

A.2.2.1 Reference Number: OBS-1496938

An amount of ₹16,63,25,997 being the capital expenditure incurred in excess of grants received was shown as grants receivable under Loans Advances & Deposits (Schedule - 8) without any confirmation from the funding agency. The expenditure incurred more than grants received was adjusted in future releases based on the Utilization Certificate. This needs to be reviewed and a note to that effect needs to be disclosed in the notes on accounts (Schedule 24).

A.2.2.2 Reference Number: OBS-1501270

An amount of ₹1,47,64,368 (₹1,36,50,246 + ₹11,14,122) transferred from Research Fund to Institute Revenue Grant (IRG) Account in August 2024 towards Institute share of overhead amount of Research and Consultancy Projects for the year 2023-24 was not shown as income

under Income & Expenditure Accounts. This resulted in an understatement of income by ₹1,47,64,368.

A.2.2.3 Reference Number: OBS-1534558

An amount of ₹5,80,476 receivable towards rent of vacant land leased to the following organisation for the period from February 2017 to March 2024. However, the same was not shown as rent receivable under Schedule 8- Loans, Advances & Deposits resulting in understatement of Loans, Advances & Deposits by ₹ 5,80,476.

Name of the Org.	**Lease Rent** (₹)	**Period**	**Total to be paid** (₹)
TSNPDCL, Warangal	60000 Per annum	20/02/17 to 19/02/24	4,20,000
BSNL, Warangal	21690 Per annum	10/06/17 to 09/06/22	1,08,450
	28920 Per annum	10/06/22 to 31/03/24	24,100
GWMC	1750 Per annum	09/2009 to 03/23 (14.5 years)	25,375
Dist. Edn. Officer	510 Per annum	01/04/19 to 31/03/24	2,551
	TOTAL		**5,80,476**

A.2.2.4 Reference Number: OBS-1534560

An amount of ₹ 1,62,000 was to be recovered from the employee of the institute for wrongly claimed of Children Education Allowance. However, the same was not shown in the books of Accounts as receivable under Schedule 8 - Loans, Advances & Deposits. This needs to be rectified.

B. Income and Expenditure Accounts

B.1 Income-₹ 342.56 crore

B.1.1 Reference Number: OBS-1502158

As seen from the ledgers, an amount of ₹ 84,58,721 was received towards UG/PG Tuition Fee and from SRIC during the year. However, the same was not accounted for in the Receipts and Payments account as well as Income and Expenditure Account. This resulted in understatement of Income to the extent of ₹ 84,58,721.

B.2 Expenditure-₹ 720.46 crore

B.2.1 Reference Number: OBS-1498867 & 1580061

An expenditure amounting to ₹1,33,45,973 pertaining to the period prior to 2023-24 was shown under current year expenditure instead of showing it as Prior Period Expenditure under

Schedule 22. This resulted in the understatement of Prior Period expenditure and overstatement of Administrative and General Expenses under Income and Expenditure Accounts by ₹1,33,45,973.

S.no.	Details of Expenditure	Pertaining to the period	Amount paid (₹)
1	Study in India Scholarship Students during admission 2021-22	2021-22	15,00,000
2	Ph D Scholarships Tuition Fee	2019-20	24,42,000
3	Study in India Scholarships students during admission 2019-20	2019-20	22,26,000
4	Payment to M/s.Security & Intelligence Services for the month of March,2023	March, 2023	39,96,793
5	Payment of M/s Agile Security Forces for the month of March-2023	March,2023	31,81,180
		Total	**1,33,45,973**

B.2.2 Reference Number: OBS-1534557

Prior Period expenditure amounting to ₹10,13,518 paid towards Comprehensive Annual Maintenance Services for the period from 01/03/2022 to 31/03/2023 was included in current years expenditure. The Misclassification resulted in understatement of Prior Period Expenditure under Schedule 22 by ₹10,13,518.

C General comments

C.1 Reference Number: OBS-1496940

The Grants received of ₹254,63,00,000 towards Revenue Expenditure was shown under receipts side of R&P Account and the same was also under Schedule 10 (Grant/Subsidies-irrevocable Grant Received) of Income and Expenditure Account. However, as per Utilisation Certificates, there was a minus balance of ₹111,45,92,436 indicating incurring of excess expenditure over the Grants received and the same was neither shown in the books of accounts nor disclosed in the Notes to the Accounts.

Head of A/c	**Opening Balance** (₹)	**Grants received** (₹)	**Funds available** (₹)	**Exp incurred** (₹)	**Cl Balance** (₹)
112-31	- 105,92,04,897	100,43,00,000	- 5,49,04,897	104,62,47,727	- 110,11,52,624
789-31	Nil	7,82,00,000	7,82,00,000	7,82,00,000	Nil
797-31	Nil	4,20,00,000	4,20,00,000	4,20,00,000	Nil

112-36	-5,03,95,438	127,25,00,000	122,21,04,562	123,55,44,374	-1,34,39,812
789-36	Nil	9,71,00,000	9,71,00,000	9,71,00,000	Nil
796-36	Nil	5,22,00,000	5,22,00,000	5,22,00,000	Nil
	Total	**254,63,00,000**			**-111,45,92,436**

C.2 Reference Number: OBS-1580042

An amount of ₹ 23,21,57,400 was transferred to the Director Main Account from the TSA account in the month of March 2024 to meet negative balances. This needs to be reconciled.

C.3 Reference Number: OBS-1598740

Fee receivable under Schedule 7-Current Assets was shown as ₹1,09,27,800 whereas the same as per the list of fee details furnished by the Institute was ₹22,15,500. The difference needs to be reconciled and rectified.

C.4 Reference Number: OBS-1599504

An amount of ₹9,21,60,461 was deposited as FDR (FDR No. 41519926255) for a period of one year (from 20.12.2022 to 20.11.2023) under Corpus Fund, however, interest accrued on this for the year 2023-24 was shown as NIL. This needs to be rectified.

C.5 Reference Number: OBS-1502258

The difference of ₹49,68,371 of STDRs amount shown in Schedule 7 (₹28,15,26,397) and Certificates (₹28,64,94,768) in respect of SRIC Accounts needs to be reconciled and rectified.

C.6 Reference OBS-1599198

Schedule 8-Loans, Advances & Deposits included advances amounting to ₹30.75 lakh (Advance to Physics Department-₹2,61,761, Advance to SOM MBA -₹1,48,422, Advance to I/c Instrn CSP Rao -₹1,50,000, Advance to Chief Warden -₹5,65,034, Advance to IRAA DEAN -₹18,98,820, Advance to Computer Centre -₹51,266) without adjustments and carrying the same amounts from year to year.

D. Grants-in-Aid: NIT, Warangal received an amount of ₹280.63[1] crore towards Grants-in-aid during the year and was utilised as on 31 March 2024.

[1] Capital – ₹26.00 crore, Revenue + ₹254.63 crore = ₹280.63 crore

E. Management Letter: Deficiencies which have not been included in the Separate Audit Report have been brought to the notice of the Director, National Institute of Technology, Warangal, through a Management letter issued separately for remedial/corrective action.

v. Subject to our observations in the preceding paragraphs, we report that the Balance Sheet, Income & Expenditure Account and Receipts & Payment Account dealt with by this report are in agreement with the books of accounts.

vi. In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts, and subject to the significant matters stated above and other matters mentioned in Annexure to this Audit Report give a true and fair view in conformity with accounting principles generally accepted in India:

(a)In so far as it relates to the Balance Sheet, of the state of affairs of the National Institute of Technology, Warangal, as at 31 March 2024; and

(b)In so far as it relates to the Income & Expenditure Account of the ***deficit*** for the year ended on that date.

Hema

(HEMA MUNIVENKATAPPA)
Director General of Audit(Central)
Hyderabad

Annexure to DSAR

1. Adequacy of Internal Audit System: Internal Audit Wing was established in August 2023; however, Internal audit was not conducted during the year 2023-24.

2. Adequacy of Internal Control System: The Internal control system is not adequate as an Internal Audit was not conducted.

Reference Number: OBS-1599176 & OBS-1599341 & OBS-1525844

(a) Information from Departments, Schools and Centers Circulars regarding the following was not consolidated by the Institute.

(i) Review of all Purchase (ii) Interest bearing advances Employee wise schedules of all outstanding advances : Interest bearing as well (ii) Pre paid expenses against Insurance Premium, Annual Maintenance Contracts etc., (iv) Closing Physical stock held as on 31 March (v) Income due and not received (vi) All items of income such as Rent for quarters office, office premises, shops Banks and Post Offices etc.(vii) Advances to CPWD/Other Construction Agencies (viii) Details of Books and Scientific Journals purchased/Gifted etc., (ix) Closing Cash balances : Imprest Holders (x) List of Court Cases/Arbitration cases (xi) Letters of Credit/Details (xii) List of works in progress(xiii) Details of Capital Works in Progress completed in current year etc.,

(b) Completed works were not deleted from Works In Progress, Non providing of Liabilities, and Non-classification of expenditure.

(c) The institute is not maintaining the Fixed Deposits Register.

(d) Reference OBS-1599129

Though a bulk debit as per authorization of the Institute got exhibited in the Bank statements, no evidence was on record and no supporting documentation was furnished by the bank as to the fact of credit of amounts to the actual beneficiary.

3. System of Physical verification of fixed assets: Physical verification of Fixed assets has not been conducted for the year 2023-24.

4. System of Physical verification of inventory: Physical verification of inventory has not been conducted for the year 2023-24.

5. Regularity in payment of statutory dues: The University is regular in depositing all the statutory dues.

Chv. Jai Prasad

DIRECTOR/CENTRAL EXPENDITURE AUDIT
O/o DIRECTOR GENERAL OF AUDIT (CENTRAL)

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL



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