

ANNUAL REPORT

2022-23

National Institute of Technology Warangal

DIRECTOR'S REPORT

National Institute of Technology Warangal was established on October 10, 1959. Since then, the institute is continuously striving toward imparting quality education to equip its graduates with competencies in leadership in technological innovation and consulting services and translational research. The Institute is renowned for its committed faculty members, staff and cutting-edge 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.

As the Director of this Institute of National Importance, I am proud of the progress we have made and the heights we have achieved during last six decades. I am equally excited about the journey that lies ahead. Our commitment to excellence will continue to drive us forward. We will foster an environment where creativity thrives, inclusivity is celebrated, and where every member of NIT Warangal is empowered to reach one's full potential.

The institute strives hard to offer several multidisciplinary programmes such as BTech in Math & Computing, MTech in Sustainable Energy and many academic programmes of current relevance namely, BTech in VLSI and MTech in Welding and Non-Destructive Testing. The Institutes is in process of taking up a serious exercise on Academic Programmes Restructuring and revision of curricula and academic regulations to achieve high standard in teaching & learning process.

Our foundation also reminds us of our responsibility to society. We are not just an institution of higher learning focussing on teaching but we are a force for positive change. Our sponsored research and development, incubation and innovation activities are key to contribute in transforming lives, addressing pressing issues, and contributing to a brighter future for all. The world is changing at an unprecedented pace, and the challenges we face are more complex than ever before. It is our responsibility, as a leading institution of higher learning, to adapt, innovate, and continue to excel. Our faculty and their research groups are pursuing research to contribute for achieving sustainable development goals of the nation. To recognize the R&D endeavor among the students, from this academic year, the institute has introduced Best Thesis awards for UG, PG and PhD students. Our Sponsored Research and Consultancy Cell has been strengthened to facilitate our faculty towards effective sponsored research project execution.

NIT Warangal is strongly embarking on Industry institute interaction activities. The institute has taken up serious endeavours towards facilitating its faculty and students to set up start-ups. Efforts are being directed towards establishing a research park to offer a very conducive ambience for start-ups, MSMEs, and industries to collaborate with NIT Warangal.

NIT Warangal has demonstrated visible progress in product development and patents. A good amount of Technology transfer was done reaching out to several industries identifying their needs and for adoption of technologies developed by the Institute.

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. There is a significant improvement in the campus placements in the last academic year. Almost 98% of UG and PG students were successful in securing placement offers through campus recruitment drives. The highest pay package was Rs. 88 lakh and average being Rs.17 Lakh. A number of companies, including Fortune 500 companies visited the campus to recruit our students from different academic programmes.

Several faculty members featured in the top 2% of researchers list prepared by Stanford University. NIT Warangal is sincerely pursuing for Skill development in line with NEP. The Institute has established a CoE on Advanced Manufacturing with collaboration from Siemens. This CoE facilitates skill development opportunities to a large number of engineers in digital manufacturing.

Several campus infrastructure plans are in pipeline. The old canteen is being replaced with a Pre-Engineered Building structure. The construction of closed drainage system from the main gate to the 2nd gate is in progress. The construction of a Pedestrian Walkway from Second Gate to Rural Development Centre is being undertaken to avoid inconvenience to the pedestrians and vehicular traffic. The work of providing black top layer over the existing roads in the institute campus including the hostel area has been taken up. The new health centre is under construction. There is a plan to renovate old staff quarters, complete campus drainage system is being planned and the construction of quarters for faculty will be given priority in the near future.

As part of Campus Greenery Initiative, saplings were planted across the campus to make it green and lend it an aura of tranquillity. Our faculty, staff and students actively contribute in the cleanliness drive, Swachh Bharat campaign to keep our campus clean. A notable gesture from our students was observed in their campaign to refrain from using single use plastics and upholding the status as NITWIANS in PAN India culture. Utilisation of roof top solar power, use of STP effectively, recycling the food waste through biogas plant, segregation of dry and wet waste, conducting swacchatha initiative drives, use of Reclaimed Asphalt pavements and Construction Demolished Waste in construction etc are some of the best practices being followed in the campus aimed at a long term dream of achieving a zero-waste campus.

NIT Warangal also undertakes social responsibility in extending towards upliftment of the society. The Institute extends support to local villages in providing health and hygiene awareness through medical camps. Unnat Bharat Abhiyan has been active in pursuing several outreach activities such as facilitating

drinking water, electricity and sanitation to the local villages. The NSS unit of the institute conducted several activities including Medical camps with the help of Institute health centre

I am glad to mention here that the 21st Convocation of our Institute was held on September 16, 2023. Dr.Vijay Kumar Saraswat, (Padma Shri, Padma Bhushan), Member, NITI Aayog, Govt. of India graced the occasion as Chief Guest. I proudly mention before you that in 21st Convocation, the much-valued degrees of NIT Warangal were conferred on 1064 B. Tech, 603 M. Tech, 154 M. Sc, 7 PG Diploma, 23 MBA, 52 MCA and 126 PhD students.

The institute has received good visibility for its excellence in teaching, learning and research. Our Institute was placed at 21st position in NIRF ranking in 2023. I am positive that with collective efforts of all the stakeholders including alumni, we can improve the ranking in the coming years.

We resolve to create a better future through education, research, and service. I want to express my heartfelt gratitude to all the stakeholders who have been part of this remarkable journey. Your contributions have been instrumental in our success, and I am confident that together, we will continue to achieve great success in all fronts.



Prof. Bidyadhar Subudhi

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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
(Since April 27, 2023)



Prof. N. V. Ramana Rao
Chairperson I/c, Board of Governors,
Director, National Institute of Technology Warangal
(Upto April 26, 2023)



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



Ms. Darshana M Dabral
Jt. Secretary & Financial Advisor
Ministry of Education, Govt. of India
New Delhi.
(up to 23.02.2023)



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



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



Prof. N.V. Umamahesh
Department of Civil Engineering
National Institute of Technology Warangal



Prof. K. Ramesh
Professor, Department of CSE
National Institute of Technology Warangal
(up to 05.08.2022)



Prof. I. Ashok Kumar Reddy
Associate Professor
Dept. of Mechanical Engineering
National Institute of Technology Warangal
(from 06.08.2022 to 09.9.2023)



Shri S. Goverdhan Rao
Secretary Board of Governors & Registrar National Institute of Technology Warangal
(up to 23.05.2023)



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



FINANCE COMMITTEE

1.	Prof. N. V. Ramana Rao Chairperson I/c, Finance Committee Director, NIT Warangal	Chairperson I/c	Up to 26.04.2023
2.	Prof. Bidyadhar Subudhi Chairperson I/c, Finance Committee Director, NIT Warangal	Chairperson I/c	From 27.04.2023
3.	Ms. Saumya Gupta, IAS Joint Secretary (NITs) Ministry of Education, Govt. of India New Delhi	Member	
4.	Ms. Darshana M Dabral Jt. Secretary & Financial Advisor Ministry of Education, Govt. of India New Delhi	Member	Up to 23.02.2023
5.	Shri Sh. Sanjog Kapoor Jt. Secretary & Financial Advisor Ministry of Education, Govt. of India New Delhi	Member	From 24.02.2023
6.	Prof. N.V. Umamahesh Department of Civil Engineering, National Institute of Technology Warangal	Member	
7.	Sri S. Goverdhan Rao Registrar National Institute of Technology Warangal	Member-Secretary	Up to 23.05.2023
8.	Prof. CSRK Prasad Registrar In-charge National Institute of Technology Warangal	Member-Secretary	From 24.05.2023 To 03.12.2023

BUILDING AND WORKS COMMITTEE

1.	Prof. N. V. Ramana Rao Director, National Institute of Technology Warangal.	Chairperson	Up to 26.04.2023
2.	Prof. Bidyadhar Subudhi Director, National Institute of Technology Warangal.	Chairperson	From 27.04.2023
3.	Shri Ashok Kumar Khatua Chief Engineer, Central Public Works Dept., Nirman Bhawan, Sultan Bazar, Hyderabad	Member	
4.	Shri K. Kishan Chief General Manager (Opn-II)(Electrical), TSNPDCL, Warangal.	Member	
5.	Prof. M. Chandrasekhar Dean (Planning & Development), National Institute of Technology, Warangal.	Member	
6.	Shri Anil Kumar Director, (Finance), Integrated Finance Division Ministry of Education, New Delhi.	Member	
7.	Smt. Veena Dunga Deputy Secretary, (NIT, BP & ISBN) Ministry of Education, New Delhi	Member	
8.	Shri S. Goverdhan Rao Registrar, National Institute of Technology Warangal.	Member-Secretary	Up to 23.05.2023
9.	Prof. C.S.R.K. Prasad Registrar In-charge National Institute of Technology Warangal.	Member-Secretary	From 24.05.2023 To 03.12.2023

SENATE

CHAIRMAN

Prof. Bidyadhar Subudhi

Director

SECRETARY

Prof. N. V. Umamahesh

Registrar I/C (from 04.12.23)

Prof. CSRK Prasad

Registrar I/C (from 24.05.2023 to 03.12.23)

EXTERNAL SENATORS

Prof. Ashok Kumar Pradhan
Dept. of Electrical Engineering,
IIT Kharagpur

Prof. Amit Prashant
Dept. of Civil Engineering,
IIT Gandhinagar

Prof. B. Sri Padmavati
Dept. of Mathematics,
University of Hyderabad

INTERNAL SENATORS

1. Prof. A. Sarath Babu
2. Prof. A. Veeresh Babu
3. Prof. A. Venu Gopal
4. Prof. A. Venu Vinod
5. Prof. Adepu Kumar
6. Prof. Asit Kumar Khanra
7. Prof. B. Lakshmi
8. Prof. B. Satish Ben
9. Prof. B. Sobha
10. Prof. B.L. Narasimha Raju
11. Prof. Bhagwan K. Murthy
12. Prof. C. Vanitha
13. Prof. C.B. Kameswara Rao
14. Prof. C.B. Rama Rao
15. Prof. C.S.P. Rao
16. Prof. C.S.R.K. Prasad
17. Prof. Ch. Sudhakar
18. Prof. Ch. Venkaiah
19. Prof. D. Dinakar
20. Prof. D. Jayakrishna
21. Prof. D. Kasinath
22. Prof. D. Ramaseshu
23. Prof. D. Srinivasa Charya
24. Prof. D. Vakula
25. Prof. D.M. Vinod Kumar
26. Prof. D.V.S.S. Siva Sarma
27. Prof. Debashis Dutta
28. Prof. Deva Pratap
29. Prof. Divi Haranath
30. Prof. G. Amba Prasada Rao
31. Prof. G. Nagasrinivasulu
32. Prof. G. Rajesh Kumar
33. Prof. G.V.S. Nageswara Rao
34. Prof. Hari Ponnamma Rani
35. Prof. J.V. Ramana Murthy
36. Prof. K. Anand Kishore
37. Prof. K. Kiran Kumar
38. Prof. K. Laxma Reddy
39. Prof. K. Madhavi
40. Prof. K. Madhu Murthy
41. Prof. K. Narasimhulu
42. Prof. K. Ramesh
43. Prof. K. Thangaraju
44. Prof. K. Venkata Reddy
45. Prof. K.N.S. Kasiviswanadham
46. Prof. K.V. Gobi
47. Prof. K.V. Sai Srinadh
48. Prof. L. Anjaneyulu
49. Prof. L. Krishnanand
50. Prof. M. Chandrasekhar
51. Prof. M. Heera Lal
52. Prof. M. Joseph Davidson
53. Prof. M. Ravinder Reddy
54. Prof. M. Sailaja Kumari
55. Prof. Mahesh Kumar Talari
56. Prof. N. Bheema Rao
57. Prof. N. Narasaiah
82. Prof. R. Padmavathy
83. Prof. R. Satish Babu
84. Prof. R.B.V. Subrahmanyam
85. Prof. Rashmi Ranjan Rout
86. Prof. Ravi Kumar Jatoth
87. Prof. S. Anuradha
88. Prof. S. Srinath

58. Prof. N. Selvaraj
59. Prof. N. Viswanathan
60. Prof. N.V. Srikanth
61. Prof. N.V. Umamahesh
62. Prof. Neelakanteswara Rao
63. Prof. P. Abdul Azeem
64. Prof. P. Bangaru Babu
65. Prof. P. Hari Krishna
66. Prof. P. Madhusudhana Reddy
67. Prof. P. Ramlal
68. Prof. P. Ratish Kumar
69. Prof. P. Ravi Kumar
70. Prof. P. Sreehari Rao
71. Prof. P. Sreenivasa Rao
72. Prof. P. Subhash Chandra Bose
73. Prof. P. Syam Prasad
74. Prof. P. Vamsi Krishna
75. Prof. P. Venkata Sri Laxmi
76. Prof. P. Venkata Suresh
77. Prof. Pisipati Radha Krishna
78. Prof. Prakash Saudagar
79. Prof. Puli Ravi Kumar
80. Prof. R. Dayanidhi
81. Prof. R. Narasimha Rao
89. Prof. S. Srinivasa Rao (EE)
90. Prof. S. Srinivasa Rao (ME)
91. Prof. Sonawane Shirish Hari
92. Prof. Sourabh Roy
93. Prof. Srikanth Korla
94. Prof. T. Kishore Kumar
95. Prof. T. Venkatappa Rao
96. Prof. T.D. Gunneswara Rao
97. Prof. T.V.K. Hanumantha Rao
98. Prof. V. Hari Kumar
99. Prof. V. Rajesh Khana Raju
100. Prof. V. Rajeswar Rao
101. Prof. V. Ramana Murthy
102. Prof. V. Suresh Babu
103. Prof. V. Venkata Mani
104. Prof. V.P. Chandra Mohan
105. Prof. V.T. Somasekhar
106. Prof. Vangapandu Rama Devi
107. Prof. Velagapudi Vasu
108. Prof. Venkaiah Chowdary
109. Prof. Venkatathri Narayanan
110. Prof. Vishnu Shanker
111. Prof. Y. Ravi Kumar

Deans

1.	Prof. N.V.Umamahesh	Dean (Academic)	
2.	Prof. P.Ravi Kumar	Dean (Student Welfare)	
3.	Prof. M.Chandrasekhar	Dean (Planning & Development)	
4.	Prof. V.T. Somasekhar	Dean (Research & Consultancy)	From 26.08.2022
5.	Prof. V. Rajeswar Rao	Dean (Research & Consultancy)	Upto 25.08.2022
6.	Prof.Y.N.Reddy	Dean (Faculty Welfare)	From 27.08.2022
7.	Prof. G. Amba Prasad Rao	Dean (Faculty Welfare)	Upto 25.08.2022
8.	Prof. D.Ramaseshu	Dean (IR&AA)	From 01.01.23
9.	Prof. N.Subramanyam	Dean (IR &AA)	Upto 31.12.22

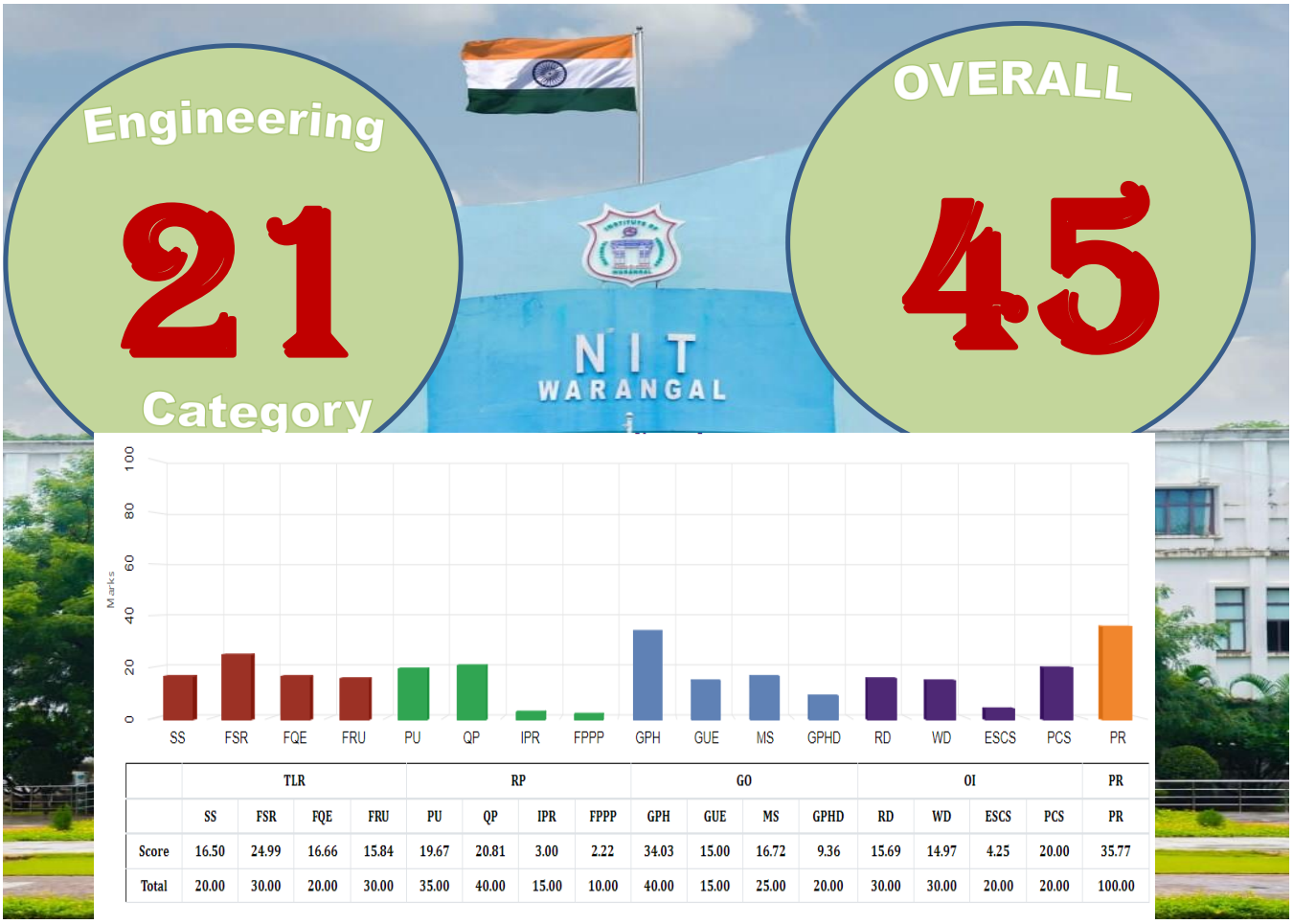
Administrative officers

10.	Shri Soumen Karmakar	Dy. Registrar	Administration
11.	Shri Sudam Damu Adlinge	Dy. Registrar	Purchase & Stores
12.	Shri Vijay Anavaratham C	Dy. Registrar	Accounts Section
13.	Shri S.Venkateswaran	Dy.Registrar (Upto 25.08.2022)	Administration
14.	Shri Thummala Srinivas	Assistant Registrar	Examination
15.	Shri Adesh Srivastava	Assistant Registrar	Hostels
16.	Shri Nagaraju Nagabandi	Assistant Registrar	Accounts Section & SRIC
17.	Shri Devkate Gajanan Vyankat	Assistant Registrar	Director's Office
18.	Shri Peela Krishna Chaitanya	Assistant Registrar	Administration
19.	Shri Ashok Kasthuri	Assistant Registrar	Accounts Section
20.	Shri Venugopala Reddy T.	Superinteding Engineer	Engineering & Maintenance Unit
21.	Shri G. Ramesh	Executive Engineer	Engineering & Maintenance Unit
22.	Shri. Pelluru Suresh	Executive Engineer	Engineering & Maintenance Unit
23.	Shri T. Krishna Sai	Principal STO	CRIF
24.	Shri P.Bhargava Reddy	Technical Officer	CDIS
25.	Shri V. Sudhakar	Technical Officer	CRIF
26.	Shri D.Govinda Rao	Technical Officer	CDIS
27.	Shri Madupu Harish	Technical Officer	CRIF
28.	Shri D. Ravi Kumar	Technical Officer	CRIF
29.	Smt.Gollapalli Sree Rama Sanjeevini	Technical Officer	CRIF
30.	Dr. K. Veeranjaneyulu	Librarian	Institute Central Library
31.	Shri Iranna Mallappa S.	Dy. Librarian	Institute Central Library
32.	Shri. Gardasu Balakrishna	Assistnat Librarian	Institute Central Library
33.	Dr. Ch. Karthik Chintala	Medical Officer	Institute Health Centre
34.	Dr. Pradeep Dodda	Medical Officer	Institute Health Centre
35.	Dr.Anchoori Karthik	Medical Officer	Institute Health Centre
36.	Shri Prasanth. P	Senior SAS Officer	Physical Education
37.	Shri Hari Devasoth	SAS Officer	Physical Education

Heads of the Departments

1	Prof. K. Narasimhulu	Biotechnology	
2	Prof. Rathish Kumar	Civil Engineering	Upto 24.08.2022
	Prof. T.D. Gunneswara Rao	Civil Engineering	From 25.08.2022
3	Prof. S. Ravi Chandra	Computer Science and Engineering	
4	Prof. Vishnu Shankar	Chemistry	Upto 27.08.2022
	Prof. D. Kashinath	Chemistry	From 28.08.2022
5	Prof. S. Srinath	Chemical Engineering	Upto 22.11.2022
	Prof. P. Venkata Suresh	Chemical Engineering	From 23.11.2022
6	Prof. Sailaja Kumari	Electrical Engineering	Upto 22.11.2022
	Prof. B.L. Narasimha Raju	Electrical Engineering	From 23.11.2022
7	Prof. P. Sreehari Rao	Electronics and Communication Engineering	
8	Prof. Adepu Kumar	Mechanical Engineering	Up to 27.08.2022
	Prof. V. Suresh Babu	Mechanical Engineering	From 28.08.2022
9	Prof. T. Mahesh Kumar Talari	Metallurgical and Materials Engineering	
10	Prof. H.P. Rani	Mathematics	
11	Prof. T. Venkatappa Rao	Physics	
12	Prof. P. Ravi Kumar	Physical Education	Up to 10.07.2022
	Prof. R. Dhayanithi	Physical Education	From 11.07.2022
13	Prof. M. Ravinder Reddy	School of Management	Up to 31.07.2022
	Prof. V. Rama Devi	School of Management	From 01.08.2022
14	Prof. K. Madhavi	Humanities and Social Sciences	

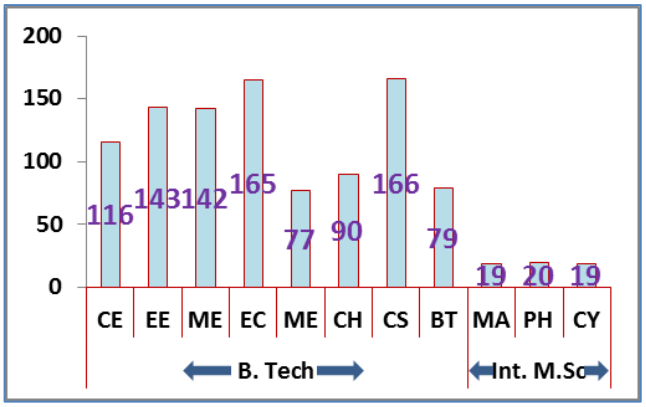
NIRF RANKING 2022



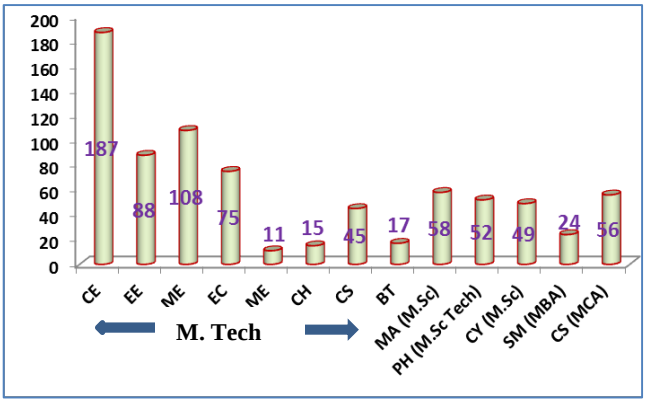
	TLR				RP				GO				OI				PR
	SS	FSR	FQE	FRU	PU	QP	IPR	FPPP	GPH	GUE	MS	GPHD	RD	WD	ESCS	PCS	PR
Score	16.50	24.99	16.66	15.84	19.67	20.81	3.00	2.22	34.03	15.00	16.72	9.36	15.69	14.97	4.25	20.00	35.77
Total	20.00	30.00	20.00	30.00	35.00	40.00	15.00	10.00	40.00	15.00	25.00	20.00	30.00	30.00	20.00	20.00	100.00

STUDENTS ADMISSION DETAILS: ACADEMIC YEAR 2022-23

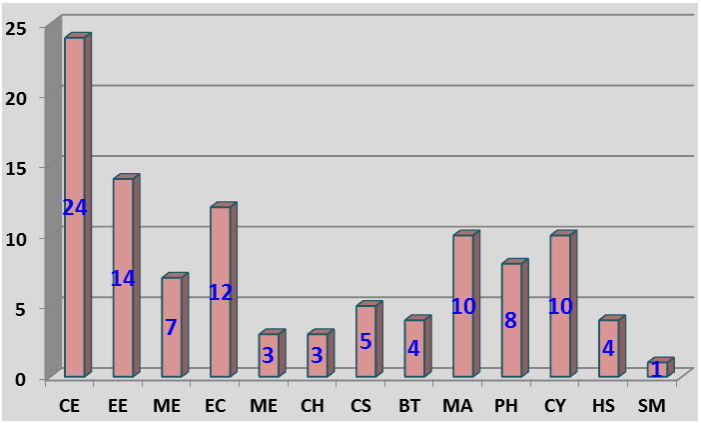
1. B. Tech Department-wise



2. PG students Department-wise

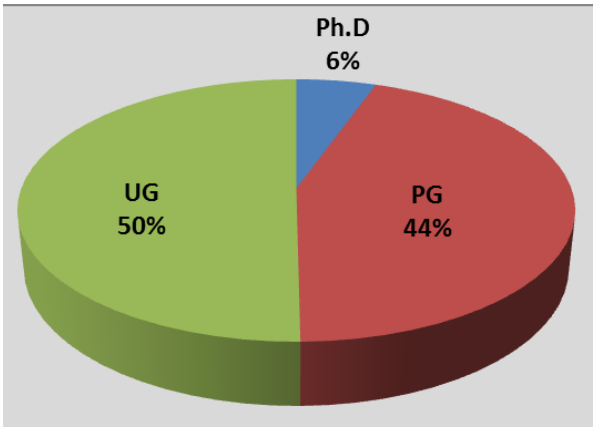


3. Ph.D Sholars Department-wise

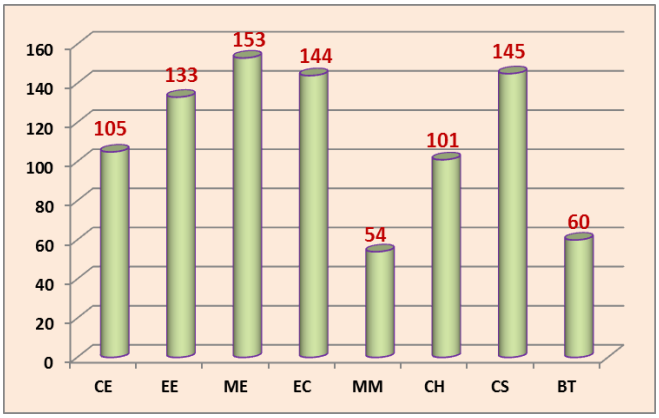


20th CONVOCATION
(3-4 September, 2022)

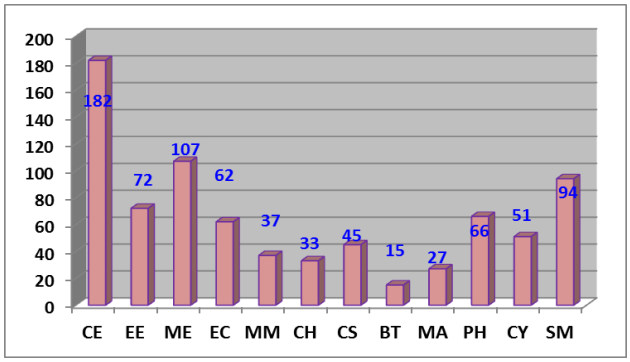
1. Number of Students Graduated



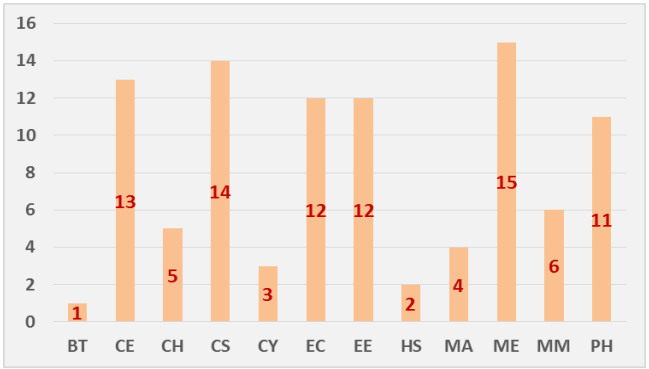
2. Number of B.Tech Students Graduated



3. Number of PG Students Graduated



4. Number of Ph.D Students Graduated



New Faculty Appointments (17th July 2022)

S.No	Name	Designation	Department
1.	Prof. Srinagalakshmi N.	Assistant Professor	Mechanical Engineering
2.	Prof. P. Ramesh babu	Assistant Professor	Mechanical Engineering
3.	Prof. Ravi Kumar Peetala	Associate Professor	Mechanical Engineering
4.	Prof. Shuvam Pawar	Assistant Professor	Electronics & communication Engineering
5.	Prof. Ch. V. Rama Rao	Associate Professor	Electronics & communication Engineering
6.	Prof. Priyanka Chawla	Associate Professor	Computer Science and Engineering
7.	Prof. Sriram Kailasam	Associate Professor	Computer Science and Engineering
8.	Prof. Santosh Penta	Associate Professor	Chemistry

Placement Report

Centre for Career Planning and Development (CCPD)

The academic year 2022-23 saw a total of 1480 full-time offers being made to the students, surpassing the previous academic year's total of 1132. In addition, more than 450 internship offers were also received by students from all the programs.

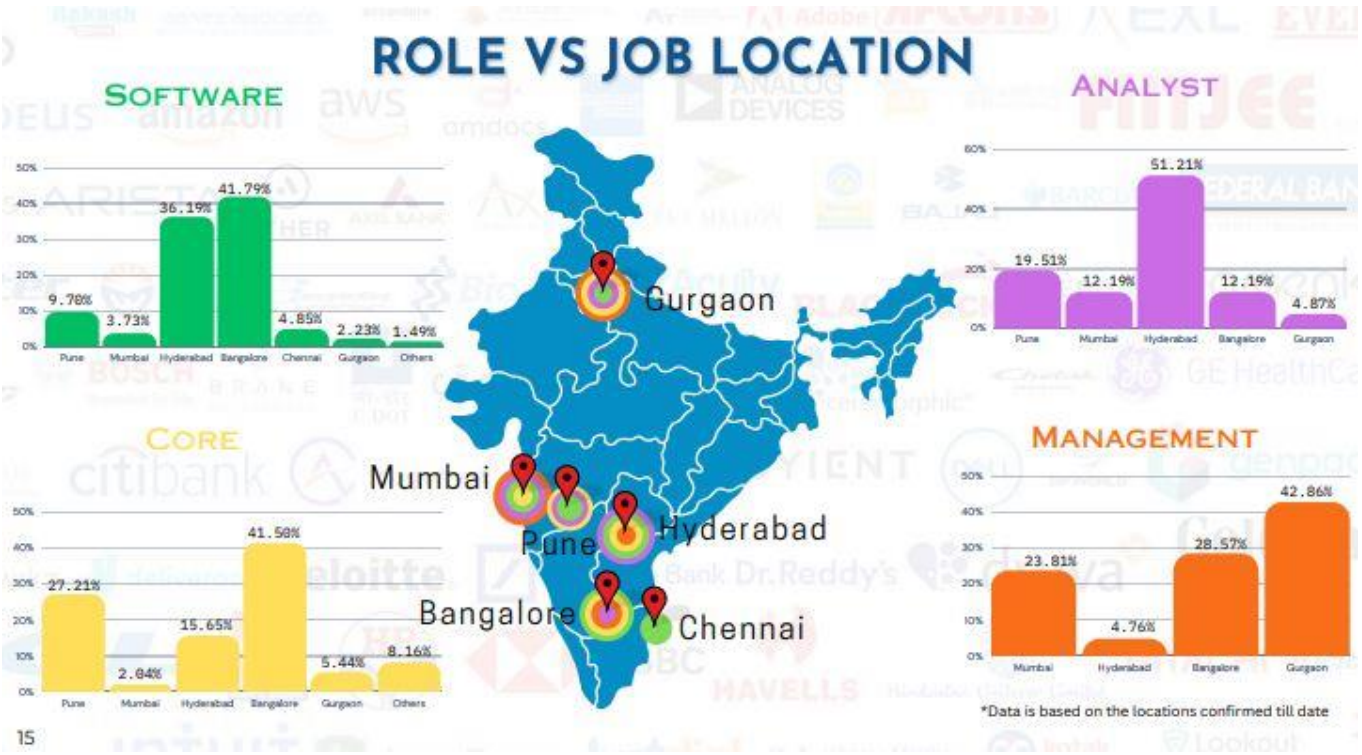
The CCPD reports an impressive 92% placement rate for final year B.Tech. Students from all departments and 75% placement rate for all PG programs. The highest CTC offered to a student this year was 88 lakhs, which is a significant increase from the previous academic year. The average and median CTC also saw a massive increase from last year, with an average CTC of 17 lakhs and a median CTC of 12.6 lakh.

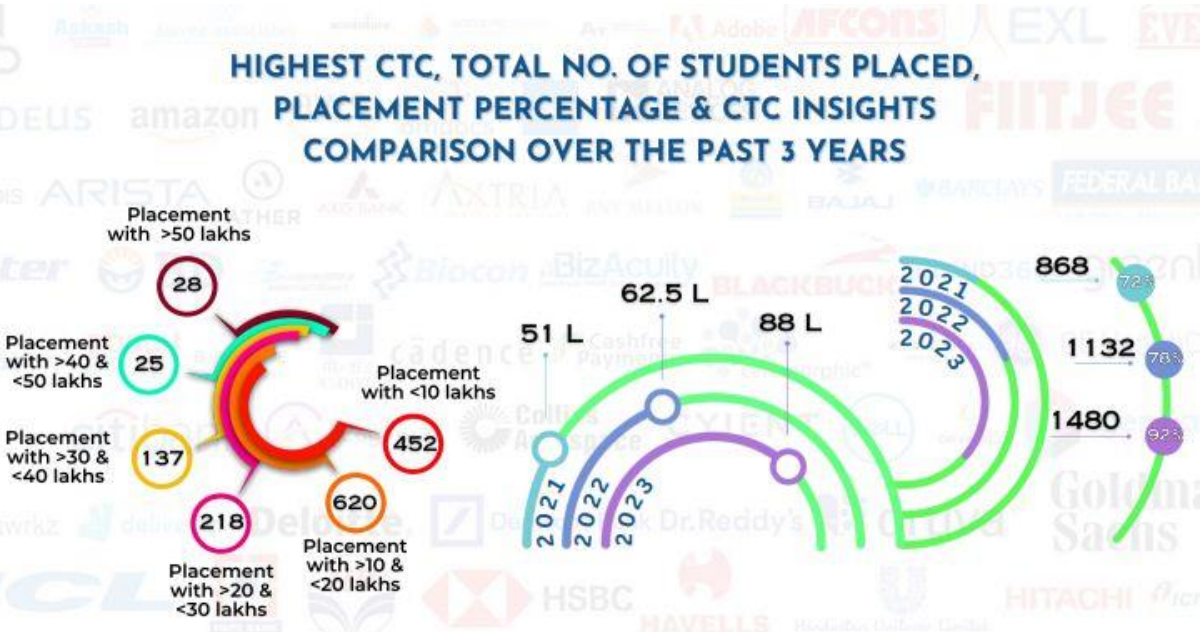
The academic year 2022-23 saw a footfall of more than 320 companies, of which 40% were visiting for the first time. Hiring sentiment is strong, with reputed companies hiring as high as 35 students in a single placement drive with lucrative packages. Hiring increase was seen in almost all the sectors with IT being in the spotlight that comprised 54% of total FTE offers from all the departments. IT roles like Software Engineer, Data Scientist, Data Analyst and others were most in-demand.

The CCPD's initiative via training courses and collaborative programs have been fruitful for students from all programs. Courses were offered to enhance students' 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.






ROLE VS JOB LOCATION
SOFTWARE
9.76%
3.73%
36.19%
41.79%
4.85%
2.23%
1.49%
Pune
Mumbai
Hyderabad
Bangalore
Chennai
Gurgaon
Others
ANALYST
19.51%
12.19%
51.21%
12.19%
4.87%
CORE
27.21%
2.04%
15.65%
41.58%
5.44%
8.16%
MANAGEMENT
23.81%
4.76%
28.57%
42.86%
Gurgaon
Mumbai
Pune
Hyderabad
Bangalore
Chennai
*Data is based on the locations confirmed till date
15


HIGHEST CTC, TOTAL NO. OF STUDENTS PLACED,
PLACEMENT PERCENTAGE & CTC INSIGHTS
COMPARISON OVER THE PAST 3 YEARS
Placement with >50 lakhs
28
Placement with >40 & <50 lakhs
25
Placement with >30 & <40 lakhs
137
Placement with >20 & <30 lakhs
218
Placement with >10 & <20 lakhs
620
Placement with <10 lakhs
452
51 L
62.5 L
88 L
2021
2022
2023
868
1132
1480

OUR PLACEMENT PARTNERS

- Global Logic Hitachi
- Godrej Properties
- Goldman Sachs
- GREENKO
- Havells
- HCL
- HCL Tech
- HDFC
- HERE
- Hero Fincorp
- Hexagon capability center Ltd.
- Hindustan Unilever
- Hitachi
- Hitachi Energy
- HoneyWell
- HPCL
- HSBC
- IBM
- ICICI
- ICICI Prudential Life Insurance
- IDBI
- Idea Forge
- Ikarus 3D
- Impact Analytics
- Incture
- Infineon
- Infinity Learn
- Infor
- Intuit
- Iqvia
- ITC
- Jacobs
- JIO
- John Deere
- Johnson Matthey
- JPMC
- Justdial
- Kagool
- Khumbu Systems
- Kolamandalam MSR Service Ltd
- Kotak Mahindra Bank
- Kubeangles
- L&T
- L&T Infrastructure
- Legato
- Leoforce
- Lookout
- Loyalty Juggernaut
- Magicbricks
- Mahindra and Mahindra
- MAQ Software
- Maruti Suzuki
- Marvell
- MasterCard
- Mathworks
- MBRDI
- Mechanical
- MediaTek
- MediaTek Technology Banglore
- MediBuddy
- Merilytics
- Microchip
- Micron
- Microsoft
- Morgan Stanley
- Narayana
- Natwest
- Netcracker
- Netradyne
- Novartis
- Numeros Motors
- NUTANIX
- NXP
- O9 SOLUTIONS
- OFSS
- Oliver Wyman
- Oracle
- Orient Electric
- Paytm
- PayU
- Pepperfry
- PharmaACE
- Physics Wallah
- PineLabs
- Piramal Group
- Providence
- Publicis Sapient
- PV Insights
- PWC India
- Qualcomm
- Quantiphi Analytics
- QuickSell
- Quixy
- Radisys
- Ramboll
- RAPIDO
- Regal Rexnord
- Reliance
- Reliance Industry
- Reliance Retail
- Resonance
- Saarthi.ai
- SaaS Labs
- Salesforce
- Samagra Governance
- Samsung
- Samsung Electronics
- SAP Labs
- Sapiens
- Saras Analytics
- SBI life
- Schlumberger
- Schneider Electric
- Sedemac
- Servicenow
- Show Time Consulting
- Siemens
- Siemens EDA
- Siemens EDA (Mentor Graphics)
- Siemens Energy
- Siemens Gamesa
- Simerics
- Simplotel
- Siris Energy Soluntion Private Ltd
- SISW
- Spectrum techno consultancy
- Sprinklr
- SRF Chemicals
- Sri Chaitanya
- Steel Strips
- Strandls
- Stryker
- Suki.AI
- Synopsys
- SYSTRA
- Tata IQ
- Tata Motors
- Tata Projects Limited
- TCE
- TCS
- Texas Instruments
- ThoughtSpot
- Trane
- TRUMINDS
- TVS
- UBER
- United Breweries
- Upgrad Insofe
- Valeo
- VCONSTRUCT
- VECV
- Vedanta
- Vesuvius
- VISA
- Vistex
- Vodafone
- WabTec
- WCB Robotics
- Wells Fargo
- Western Digtial
- WIPRO
- WSP
- Zee
- Zentree Labs
- ZF
- Zifo R&D
- ZL Technologies
- Zscaler

CENTRAL LIBRARY



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. 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 requirement of the users of the institute.

Vision:

Our vision is to provide high-quality scholarly resources and services, and an environment that encourages NIT Warangal user community to achieve excellence in learning and research.

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.	Books (No. of Volumes)	1,87,678
2.	No. of. E-Books	350
3.	Books (No. of Titles)	22,912
4.	No. of e-journals subscribed	7,870
5.	No. of Print Journals	22
6.	No. of Books in Book Bank	30,445

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

NIT, Warangal subscribed e-journals and databases:

Sl.No.	Name of the Database / Publishers	No. of Journals
1.	ASTM Standards + Digital Library	Database
2.	Elsevier Science Direct	1,129
3.	Emerald e-Shodh Sindhu	312
4.	Royal Society of Chemistry	46
5.	Sage - Materials Science & Engineering Collection	78
6.	SciFinder Scholar	Database
7.	Springer Link	1,714
8.	Taylor & Francis	349
9.	American Chemical Society Journals	64
10.	IEEE Online	558
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	**4,275**

E-Resources Provided by INFLIBNET through ESS Consortium:

Sl.No.	Name of the Database / Publishers	No. of Journals
1.	ACM Digital Library	1,153
2.	ASCE Journals Online	36
3.	ASME Journals Online	29
4.	Economic & Political Weekly	1
5.	Institute for Studies in Industrial Development (ISID)	Abstract Database
6.	JGate Plus (JCCC)	Abstract Database
7.	JSTOR	3,165
8.	Oxford University Press	262
9.	Web of Science	Citation Database
	Total	**4,646**

e-Journals Usage Statistics:

Name of the Database	2019	2020	2021	2022
ACM Digital Library	1,728	942	1,056	3,868
ASCE	6,361	3,987	4,849	11,687
ASME	2,210	1,096	1,219	4,305
ASTM DL	2,360	1,539	1,032	1,103
Emerald	6,259	4,626	7,713	8,182
IEEE	1,74,575	93,823	1,23,233	1,36,115
JSTOR	1,981	1,547	1,865	6,628
OUP	1,007	656	859	1,669
Science Direct	1,31,594	1,10,440	1,48,785	2,52,440
SciFinder	21,098	28,517	49,282	18,900
Springer Link	47,526	54,902	75,920	78,678
Taylor & Francis	17,194	12,286	16,463	43,604
WoS	3,152	4,296	8,571	9,924

Resource Sharing:

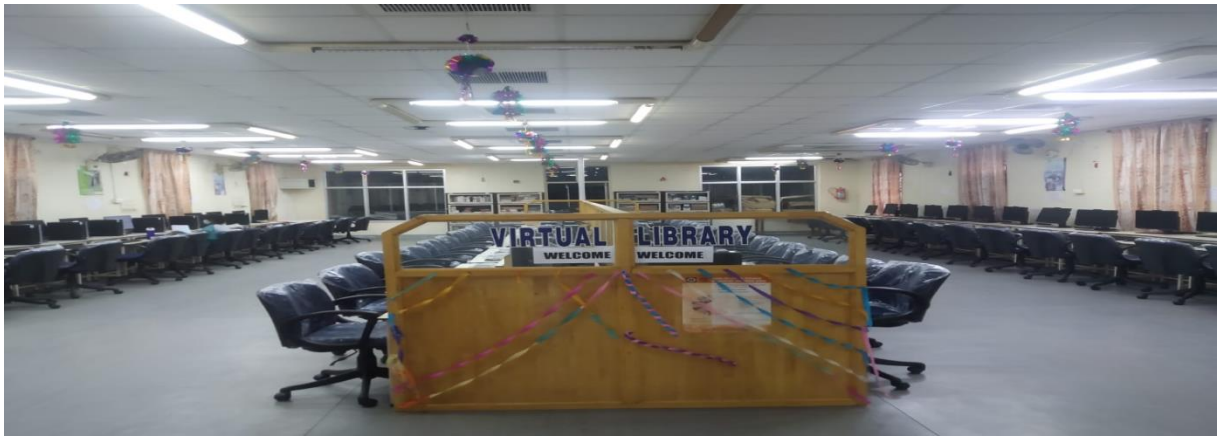
J-Gate@e-ShodhSindhu provides a single point search for consortia subscribed, library subscribed and open access journals. Portal to discover, access and share journal articles online within the institutes participating.

Accessibility to students:

Total built-up area	4,000 Sq. Mts
Library Staff Members	09
Number of Books	1,87,678
Reprographic facility	Yes
Number of seats in reading space	472
Data usage of the Library	Student – 6000 No.s, Faculty – 308 No., Non-Teaching Staff – 283 No.s
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.



Photocopying and Printing service:

Central Library, NIT Warangal provides photocopying and online printing facility to students, research scholars and faculty during working days on a payment basis @ 0.50/- (Fifty paise only) per page for Scientific articles and extracts from books available in the Library.

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.

Web Online Public Access Catalogue (OPAC):

The Central Library has implemented KOHA - Integrated Library Management Software for the automation of library functions. The Online Public Access Catalogue (OPAC) was available only over the Intranet, through which users can browse the catalogue of print resources available in the Central Library at NIT Campus, Warangal. An open-source link to e-books was also provided in this OPAC. During the prevailing Covid-19 situation, students and faculty could not access open e-resource links provided through the OPAC. Hence, Web-OPAC is implemented using cloud computing to overcome the access problem. Henceforth, the faculty and students can access the open-source link of e-books from anywhere and anytime by using the following link. **http://nitwopac.in:7071/**

Remote Access Service:

Central Library, NIT Warangal introduced a new service called "Remote Access Services - MyLOFT (My Library On Fingertips)" for the benefit of Research Scholars and Faculty. MyLOFT is a mobile App. Through MyLOFT research scholars and faculty can access e-resources subscribed by the NIT Warangal anywhere and anytime. **https://app.myloft.xyz/user/login**

Central Library organized programs:

- Central Library, National Institute of Technology, Warangal has organized a Webinar on "Scientific Writing" on 19th April 2023 from 2:30 P.M. to 6:00 P.M. in collaboration with ACS Publications for the benefit of Faculty, P.G. and Ph.D. Students.
- Central Library, National Institute of Technology, Warangal has organized a Webinar on "Scientific Writing" on 30th December 2022 from 2:30 P.M. to 6:00 P.M. in collaboration with ACS Publications for the benefit of Faculty, P.G. and Ph.D. Students.
- Central Library, National Institute of Technology, Warangal has organized a User awareness on e-Library at McGraw Hill's new platform VitalSource (e-Book platform) 31st October 2022 from 3:00 P.M. to 4:00 P.M. in collaboration with McGraw Hill for the benefit of Faculty, P.G. and Ph.D. Students.
- Central Library, NIT Warangal in collaboration with the International Library and Information Science Society (I-LISS) & Keimyung University, South Korea/JISTap is organized 6th I-LISS International Conference-2022 on Revitalizing the Libraries to the Android Society on 13th and 14th October 2022 at NIT Warangal.

NIT Warangal - 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 NIT Warangal- Indian Research Information Network System (IRINS) will support the integration of the existing research management system such as HR system, course management, grant management system, institutional repository, Open and commercial citation databases, scholarly publishers, etc. This will be integrated with the academic identities such as ORCID ID, Scopus ID, Research ID, Microsoft Academic ID, and Google Scholar ID for ingesting the scholarly publication from various sources. This Faculty Information System can become the source for the NIRF, NAC and other international raking systems. Everyone can access the Faculty Information System through the following link: **https://nitw.irins.org/**

Institutional Repository:

The Central Library NIT Warangal 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 NIT Warangal 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 NIT Warangal

community.

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

6th I-LISS International Conference – 2022 on "Revitalizing the Libraries to the Android Society"

The Central Library, National Institute of Technology, Warangal, Telangana State has organized the 6th I-LISS International Conference on "Revitalizing the Libraries to the Android Society" in collaboration with International Library and Information Science Society (I-LISS) & Keimyung University, South Korea / JISTap on 13th and 14th October, 2022.

The International Conference was well received by the LIS professionals working across the country including many from foreign countries, and a total of 150 delegates from the width and breadth of the Country attended the International Conference.





Procurement of eBooks:

Central Library procured 202 numbers of e-books for the financial year 2022-23 as per the recommendations of the Departments.

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
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

Year-wise Transactions Statistics:

Year	No of Books Checked-out	No of Books Checked-in	No of Daily Visitors (Approx.)
2019	30,158	33,675	569
2020	6,878	7,514	546 (Except Pandemic Period)
2021	400	4,531	N.A. (Pandemic Period)
2022	32,665	24,189	629

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 tonew processes, products, design and technologies in collaboration with industry andthereby facilitate application of knowledge to society". The following are the objectives of the center

- To promote greater industry - academic interaction, by inviting industries toset up their research labs at this center and carry out their research projects using the talend 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 ofthe institute.
- To facilitate the "on campus interaction" between the scientists of industriesand faculty and students of NIT Warangal in order to enable orientation of R&D activitiesof NIT Warangal to potential needs of industry.

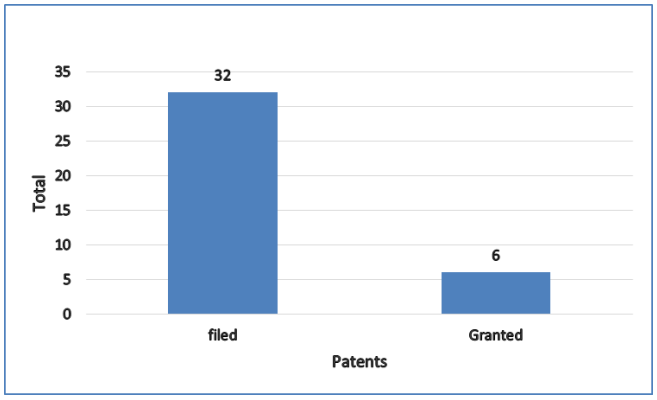
NIT Warangal being a premier technical institution plays a vital role in the process of technology entrepreneurship by offering a variety of services through CII in the area of startup creation, business incubation, easy access to capital and knowledge access with new and innovative ideas. Moreover, emphasis hasalso 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 innovationand 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 withinthe country.

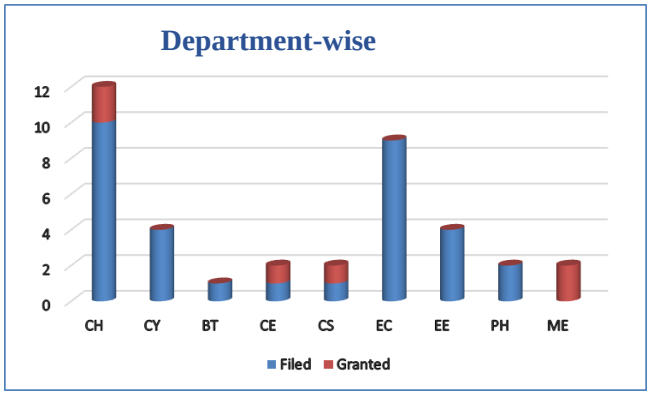
Startups

Student startups are current requirements and provide a great opportunity in market expansion and job creation. Startup policy of NIT Warangal targets to nurture andencourage 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 prototypeevents and the funding is provided to procure the hardware required through TEQIP-III.

Patents Data Academic Year 2022-23





DEPARTMENT OF BIOTECHNOLOGY

Faculty and Their Activities:

Sl. No.	Name and Qualifications	Research Interests
Professors		
1.	Prof. Sreenivasa Rao Parcha Ph.D. (JNTU Hyderabad)	Stem Cell Engineering, Downstream Processing and Enzyme Engineering
2.	Prof. R. Satish Babu Ph.D (JNTU Hyderabad)	Modelling, Simulation and Optimization of Bioprocesses & Environmental Biotechnology
3.	Prof. Korrapati Narasimhulu Ph.D. (NIT Warangal)	Environmental Biotechnology, Bioprocess Engineering, Modelling and Simulation of Bioprocesses, Biofuels and Systems Biology
Associate Professors		
4.	Prof. Prakash Saudagar (Head) Ph.D. (IIT Guwahati)	Molecular Cell Biology & Protein Biochemistry Molecular Approach to Infectious Diseases
5.	Prof. Onkara Perumal. P Ph.D. (NIT Warangal)	Bioinformatics; Computational Biology; Functional Genomics; Metabolic Disorders.
6.	Prof. Amitava Bandhu Ph.D. (Calcutta University)	Mycobacterial gene regulation
7.	Prof. Rama Raju. B Ph.D. (NIT Warangal)	Metabolic engineering, Biorefinery Biomaterials
8.	Prof. V. Kohila Ph.D. (IIT Guwahati)	Protein Engineering
9.	Prof. Asim Bikas Das Ph. D. (IIT Guwahati)	Network system biology, Cancer genomics.
10.	Prof. Urmila Saxena Ph. D. (IIT Guwahati)	Statistical Analysis of Biological Data for Biomarker Identification; Medical Biosensors; Nanobiotechnology
Assistant Professors		
11.	Prof. Perugu Shyam Ph.D. (University of Hyderabad)	Bioinformatics, Systems biology, Cancer biology, Molecular Dynamics & Simulations, Drug Design and Discovery, Machine Learning, Biological Bigdata analysis
12.	Prof. M. Jerold Ph.D. (NIT Calicut)	Biofuels & Bioenergy; Bioprocessing; Biosorption; Wastewater Treatment; Bioseparation; Algal Biotechnology; Biopolymer; Biorefineries; Biomass Valorization; Biogenic Nanoparticles

13.	Prof. Anbumathi P Ph.D. (IIT Bombay)	Systems Biology, Cancer, Cell Cycle Regualtion, Mathematical Modeling and Analysis
14.	Prof. Rathnaprabha D Ph.D (Kakatiya University, Warangal)	Plant Biotechnology (Plant tissue culture and phytochemical analysis)
15.	Prof. Soumya Lipsa Rath Ph. D. (IIT Madras)	Computational Biophysics
16.	Prof. Surajbhan Sevda Ph. D. (IIT Delhi)	Novel bioenergy strategies, Biological Wastewater Treatment, Bioelectrochemical Systems
17.	Prof. Priya Ph.D. (IIT Bombay)	Cell and molecular biology
18.	Prof. Thyageshwar Chandran Ph.D. (IISc Bangalore)	Structural Proteomics (X-ray Crystallography and Cryo-EM); Molecular Dynamics of Macromolecules; Molecular Biophysics; Lectins; Ribosome Inactivating Proteins; Ribosomes
19.	Prof. Chockalingam S Ph.D. (IIT Guwahati)	Cancer Biology, Cancer cell signaling, Cancer stem cell biology
20.	Prof Ashish A Prabhu Ph. D. (IIT Guwahati)	Metabolic Engineering; Bioprocess Engineering; Biomass and Biorefinery; Therapeutic proteins/enzymes

Journal Publications:

1. Santanu Sasidharan, Prakash Saudagar. 4',7-dihydroxyflavone conjugated carbon nanotube formulation demonstrates improved efficacy against *Leishmania* parasite, BBA - General Subjects (June 2023)
2. Santanu Sasidharan, Prakash Saudagar. An anti-leishmanial compound 4′,7-dihydroxyflavone elicits ROS-mediated apoptosis-like death in *Leishmania* parasite. The FEBS Journal (2023) doi: 10.1111/febs.16770.
3. B Sooram, U Mallikarjunachari, S Uddavesh, Prakash Saudagar. Pharmacophore-guided drug design using LdNMT as a model drug target for leishmaniasis. Journal of Biomolecular Structure and Dynamics, pp. 1-13, 2023.
4. S Sasidharan, K Radhakrishnan, JY Lee, P Saudagar, V Gosu, D Shin. Molecular dynamics of the ERRγ ligand-binding domain bound with agonist and inverse agonist. PLOS One Vol. 18, No.4, pp. e0283364, 2023.
5. V Gosu, S Sasidharan, Prakash Saudagar. K Radhakrishnan, HK Lee, D Shin. Deciphering the intrinsic dynamics of unphosphorylated IRAK4 kinase bound to type I and type II inhibitors. Computers in Biology and Medicine vol. 160, pp.106978, 2023.
6. D Mathew, S Sasidharan, Prakash Saudagar, S Sujatha, P Parameswaran meso-Carbazole decorated BODIPYs–an electron donor–acceptor system with excellent

fluorosolvato/vapochromic behavior, aggregation-induced emission, and antileishmanial activity. New Journal of Chemistry vol. 47, No.17, pp. 8277-8290, 2023.

7. Santanu Sasidharan, Prakash Saudagar, Gold and silver nanoparticles functionalized with 4', 7-dihydroxyflavone exhibits activity against *Leishmania donovani*. Acta Tropica, pp. 106448, 2022.
8. Raj, Shweta, Santanu Sasidharan, Timir Tripathi, and Prakash Saudagar, "Biofunctionalized Chrysin-conjugated gold nanoparticles neutralize Leishmania parasites with high efficacy." International Journal of Biological Macromolecules vol. 205, 211-219, 2022.
9. Santanu Sasidharan, Neellohit Sarkar, and Prakash Saudagar, "Discovery of compounds inhibiting SARS-COV-2 multi-targets, "Journal of Biomolecular Structure and Dynamics" pp.1-16, 2022.
10. Sasidharan S. and; Prakash Saudagar, Knockout of Tyrosine Aminotransferase Gene by Homologous Recombination Arrests Growth and Disrupts Redox Homeostasis in *Leishmania* Parasite. Parasitology Research, vol.121, No.11, pp.3229-3241, 2022.
11. Subedi, Sushma, Santanu Sasidharan#, Niharika Nag, Prakash Saudagar, and Timir Tripathi. "Amyloid CrossSeeding: Mechanism, Implication, and Inhibition." Molecules vol. 27, No. 6, pp.1776, 2022.
12. Nag, Niharika, Santanu Sasidharan, Vladimir N. Uversky, Prakash Saudagar, and Timir Tripathi, "Phase separation of FG-nucleoporins in nuclear pore complexes. "Biochimica et Biophysica Acta (BBA)-Molecular Cell Research, pp.1192052022):
13. Momina shanwaz Mohammad, Perugu Shyam, Bioactivity studies and Insilico studies of the isolated compound from ancient plant Vitex negundo against breast cancer. *Journal of Molecular Structure,* 2023, https://doi.org/10.1016/j.molstruc.2023.135762.
14. Momina Shanwaz Mohammad, Shyam Perugu, An aromatic plant bioactive compound corymbosin from Vitex negundo–mediated synthesis of zinc oxide nanoparticles, characterization, and their bioactivity against selected cancer cell lines and microbial pathogens. *Biomass Conversion and Biorefinery*, 2023, https://doi.org/10.1007/s13399-023-04195-9.
15. Balije R, A P, Shyam Perugu, Velidandi. Synthesis, In Silico Analysis, and Larvicidal Activity of New Bis-oxadiazole Derivatives, *Russian Journal of Organic Chemistry*, vol. 59, No. 11 pp.58–163, 2023.
16. Rama Adiga, Titas Biswas, Perugu Shyam. Applications of Deep Learning and Machine Learning in Computational Medicine. *Journal of Biochemical Technology*, vol. 14, pp.1, 2023.
17. Ratan Das, Prahlad Deb, Himanshu Pandey, Perugu Shyam, Devendra Singh. Botanical synthesis of silver nanoparticles (AgNPs) and its antifungal effect against Alternaria porri causing purple blotch of onion: An in vitro and natural epiphytic study. *Journal of Agriculture and Food Research*, vol. 19, pp.100390, 2022.
18. Fabitha K., Arya C. G., Perugu Shyam, Ramesh Gondru & Janardhan Banothu. 1,2,3-Triazole Linked Chalcone-Morpholine Hybrids: Synthesis, In Vitro Antibacterial Evaluation and InSilico ADMET Predictions, *Polycyclic Aromatic Compounds*, 2022, DOI: 10.1080/10406638.2022.2130369.
19. Momina, M.S.; Shyam, P. Synthesis of Silver Nanoparticles from Vitex negundo Plant by Green Method and their Bactericidal Effects. *Letters in Applied NanoBioscience,* vol. 12, pp.59, 2023.
20. Ravi, M.; Kumar, M.S.; Ushaiah, B.; Prasad, C.K.; Sudeepa, K.; Anitha, N.; Nizamuddin, S.; Shyam, P.; Devi, C.S. Design, Synthesis, Bioanalytical, Photophysical and Chemo-

Phototherapeutic Studies of Heteroleptic Cu (II) Complexes. *Journal of the Taiwan Institute of Chemical Engineers* vol. 132, pp.104112, 2022.

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41. Sana Munquad, Tapas Si, Saurav Mallik, Aimin Li, Asim Bikas Das Subtyping and Grading of Lower-grade Gliomas Using Integrated Feature Selection and Support Vector Machine, Briefings in Functional Genomics vol. elac025, pp.1-14, 2022.
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47. Velidandi, Aditya, Mounika Sarvepalli, Prasad Aramanda, Maha Lakshmi Amudala, and Rama Raju Baadhe. "Effect of size on physicochemical, antibacterial, and catalytic properties of Neolamarckia cadamba (burflower-tree) synthesized silver/silver chloride nanoparticles." *Environmental Science and Pollution Research* vol. 30, No. 22, pp.63231-63249, 2023.
48. S Chockalingam, G Packirisamy, R Paulmurugan. Nanomaterials for targeted delivery of therapeutic and imaging agents. *Front Cell Dev Biol*. Vol.10, pp.978690, 2022.
49. Maity D, Singh D, Bandhu A. (2023) Mce1R of *Mycobacterium tuberculosis* prefers long-chain fatty acids as specific ligands: a computational study. *Mol Divers*. Vol. 27, pp. 2523-2543, 2022.
50. Srividya, Rathnaprabha Dharavath, Activated charcoal: an effective enhancer of *in vitro* seed germination and growth in Nothapodytes foetida—a threatened medicinal plant A. 2022, https://doi.org/10.1007/s42535-022-00482-4
51. Adityah Ganesh, Rathnaprabha Dharavath, Seed Dormancy and Pre-treatment Procedures to Trigger Germination in Non-Viable Seeds, Research and Reviews: Journal of Environmental Sciences, vol. 4, No. 2, pp. 1-14, 2022.
52. Srividya Attaluri, Rathnaprabha Dharavath, Novel plant disease detection techniques-a brief review, *Molecular Biology Reports* 2023, https://doi.org/10.1007/s11033-023-08838-y

Conference Publications:

1. Soubhagya Nayak, Sudipa Bhadra, Surajbhan Sevda. Treatment of human urine using bioelectrochemical systems for energy production and nutrient extraction. SCHEMCON 2022, *18th Annual Session of Chemical Engineering Students Congress.* Warangal & IIChE-Hyderabad Regional Centre, 23rd -24th September 2022.
2. Sudipa Bhadra, Soubhagya Nayak, Surajbhan Sevda. Wastewater treatment and simultaneous generation of bioelectricity using bioelectroremediation technology (BERT): A greener approach. SCHEMCON 2022, *18th Annual Session of Chemical Engineering Students Congress.* Warangal & IIChE- Hyderabad Regional Centre, 23rd -24th September 2022.
3. Sudipa Bhadra, Shivani Maddirala, Tejovardhan Pulipati, Sai Teja A, Prem Vuyyuru Prem, Pradeep Kari, Soubhagya Nayak, Surajbhan Sevda. Biological Wastewater Treatment and Simultaneous Bioelectricity Generation Using Bioelectroremediation Technology (BERT): A Greener Perspective. International Conference On Education 5.0- Role Of Institution, Industry And Society (ERIIS - 2022), Warangal, 14 -15, October, 2022.
4. Sudipa Bhadra, Shivani Maddirala, Soubhagya Nayak, Surajbhan Sevda. Advances in Biological Wastewater Treatment: Conventional treatment to use of Bioelectrochemical System for wastewater treatment. In The Day All India Seminar on "Water Conservation Technologies – a way forward for water-related sustainable Development goals of United Nation" Hyderabad, 23-24 March, 2023,
5. D. Tripathy, S. L. Rath, S.S. Mishra, D. K. Chand, Nanoscopic Pd(II)-Based Complexes with Poly-Ether Functionalized Ligand: The Crown Ether Analog. In: Rao, N.M., Lingamallu, G.,

Agarwal, M. (eds) Advanced Nanomaterials and Their Applications. ICANA 2022. Springer Proceedings in Materials, vol 22. Springer, Singapore. https://doi.org/10.1007/978-981-99-1616-0_4

6. Satwika Das, Chandukishore T and Ashish A Prabhu, Enhanced hydrolysis of starch based food waste from newly isolated filamentous fungi: A sustainable approach towards bioeconomy. BESCON. Kharagpur & Bose Institute, 2022.
7. Chandukishore. T, Satwika Das, Ashish A Prabhu, Effective valorization of starchy food waste using fungal cell factory: A Biorefinery approach for green synthesis of chemicals. BESCON. Kharagpur & Bose Institute, 2022.
8. Chandukishore.T, Satwika Das, Ashish A Prabhu, Ecofriendly and sustainable production of value added bioproducts using food waste through fungal cell factory. ICRABES, Vellore, 2022.
9. Suddapalli, S.R.; Shyam, P. Using Mask-RCNN to Identify Defective Parts of Fruits and Vegetables.; Springer, pp. 637–646, 2021.
10. Sana Munquad, Asim Bikas Das (2023), Development of deep-learning based diagnostic tools for glioma subtyping, Great Lakes Bioinformatics Conference 2023, 15th conference, hosted by the International Society for Computational Biology (ISCB), McGill University, May 15 - 18, 2023.
11. Goel N, Singh D, Bandhu A (2023) Functional characterization of Rv1588c of *Mycobacterium tuberculosis*. Biospectrum conference, Kolkata, 6^{th} -18^{th} November, 2023.
12. International Conference on Current trends and Future prospects of Plant Biology, Organized by Department of Plant Sciences, School of Life sciences, Telangana, India, presented poster presentation on "Elicitation and establishment of hairy root culture using plant growth promoting bacteria and nanoparticles in Terminalia arjuna- A vulnerable Medicinal plant" 25-27 February, 2023.
13. International Conference on Plant Biotechnology and Genome Editing organized by presented oral presentation on "Elicitation and establishment of hairy root culture using plant growth promoting bacteria and nanoparticles in Terminalia arjuna- A vulnerable Medicinal plant"
14. International Conference on Plant Biotechnology and Genome Editing organized by Department of Biotechnology, Kakatiya University ,Warangal , Telangana India, srividya supervisor Dr.Rathnaprabha D presented Poster presentation on "Promotary role of Activated charcoal in *invitro* propagation and growth of an endangered medicinal plant - Nothapodytes feotida", Warangal, Telangana, 27-29 June, 2023.
15. Kriti Sharma, V. Kohila. Immunoinformatics approach for multi-epitope vaccine design against *Naegleria fowleri*. International Conference on Recent Advances in Biotechnology (icRAB-2022), Jalandhar, 02-04 December 2022.
16. Bhavana Kalidindi, Jagadish Gaddam, Deepti Kumari, Lakshmi Priya, V. Kohila*. Computational design of a multi-epitope vaccine against *Clostridium sordellii*: An immunoinformatics approach. International Conference on Recent Advances in Biotechnology (icRAB-2022), Jalandhar, 02-04 December 2022.

Short-Term Courses/Workshops/Seminars/Symposia/Conferences Organised by the Faculty Members:

Sl. No	Title	Dates	Scheme	Coordinators
1	Advances In Biological Wastewater Treatment Methods: Teaching And Learning Strategies	5th - 9th December, 2022	FDP	Surajbhan Sevda Soumya Lipsa Rath
2	Development of Therapeutics using Bioinformatics: Recent trends and strategies	8-12 May, 2023	FDP	Soumya Lipsa Rath Surajbhan Sevda

Honours and Awards Obtained by Faculty:

S.No.	Faculty Member	Award	Awarded by	Awarded For	Date/year of Award
1	Perugu Shyam	JURY Member	FABA and Science Gurus	Academia and Research	March 13 to April 2nd, 2023
2	Perugu Shyam	Session Chair	STI Hub, Dr B R Ambedkar National Institute of Technology, Jalandhar	Academia and Research	December 03, 2022

Special Lectures Delivered by the Faculty in Other Institutions:

Sl.No.	Faculty Member	Topic of Lecture	Institution	Date
1	Soumya Lipsa Rath	Innovative approaches in Bioinformatics for therapeutical applications	Department of Biotechnology, NMIM Institute of Technology, Mangalore	June 2, 2023
2	Soumya Lipsa Rath	Nanoparticles and their application in therapeutics	Faculty Development Programme (FDP), NIT Warangal	May 10, 2023
3	Perugu Shyam	Agriculture Plant Disease feature prediction using AI & ML	Faculty Development Program, ECE, EICT, NIT Warangal	March 27 - April 5, 2023
4	Perugu Shyam	Basic, Univerate, Bivariate and Advanced statistical methods using R with Data	Data Analytics: Methods and Applications in Healthcare Data Using R/Python	March 7, 8, 2023
5	Perugu Shyam	Phytochemicals and its role in treating Breast Cancer	National Seminar on Recent Innovations in Health & Life Science Research (RIHLSR-2023), Department of	February 24, 2023

			Zoology, KU	
6	Perugu Shyam	Gene and protein structure prediction using AIML	G H Patel College of Engineering & Technology, NIT Warangal	February 23, 2023
7	Perugu Shyam	Statistical Inference-II using R with real-time data (hands-on)	SERB High End Workshop, Indian Institute of Information Technology Dharwad	December 17, 2022
8	Perugu Shyam	Research Methodology	Scope, Hyderabad	November 25, 2022
9	Perugu Shyam	Protein Structure Prediction	NAARM, Hyderabad	November 22, 2022
10	Perugu Shyam	Role of machine learning and artificial intelligence for Gene and protein structure prediction	KL University, Hyderabad, ICCST-2022	November 12, 2022
11	Perugu Shyam	Prediction of Gene and Protein structures using Machine Learning Approach	Dept. of Bioinformatics, Pondicherry University	October 27-28, 2022
12	Perugu Shyam	Trends in DNA, Protein sequencing	Online Refresher Course in Nanobiochemistry and Bioinformatics, UGC-HRDC Osmania University	October 11-24, 2022
13	Perugu Shyam	Role of Sequence in Modern Biology and Bioinformatics View	DST-SERB Sponsored Workshop, SERB-SCIENTIFIC SOCIAL RESPONSIBILITY	September 7, 2022
14	Perugu Shyam	Role of Nutraceuticals in curing diseases	2nd Edition of Webinar on Food Science and Nutrition, Endeavour Research Group	September 6, 2022
15	Perugu Shyam	Recent Trends in Bioinformatics	Online Faculty Development Programme	August 26 - September 4, 2022

DEPARTMENT OF CHEMICAL ENGINEERING

Faculty and Their Activities:

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, 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.
7.	Prof. Seshagiri Rao Ambati (on-lien) Ph.D. (IIT Madras)	Process Control; Reinforcement Learning; Process Dynamics; Wastewater Treatment; Hybrid Energy Systems.
	Associate Professors	
8.	Prof. Vidyasagar Shilapuram Ph.D. (IIT Madras)	Chemical Engineering and allied areas
9.	Prof. Murali Mohan Seepana Ph.D. (IIT Delhi)	Energy Storage and Energy Conversion Technologies; Fuel Cells and Batteries; Wastewater Treatment; Membrane Synthesis and Separations
10.	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

11.	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		
12.	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.
13.	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.
14.	Prof. Manohar Kakunuri Ph.D. (IIT Hyderabad)	Synthesis of Carbon Nanomaterials (Carbon thin films, Nanoparticles, and Nanofibers), Catalytic Graphitization, Carbon Xerogels, Energy Storage Devices (Li/Na/Al-ion Batteries, Supercapacitors), Electrospinning, Micropatterning (Photolithography), Soft lithography, Multi-scale Structures for Tunable Surface Wettability.
15.	Prof. Praveen Kumar Bommineni Ph.D. (IISc Bangalore)	Nucleation, crystallization, and self-assembly of colloidal particles, phase diagram calculations using computer simulations.
16.	Prof. Anjana P A Ph.D. (NIT Surathkal)	High-temperature oxidation reaction; Catalysts for Energy and Environmental applications; Advanced oxidation processes
17.	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.
18.	Prof. Ramya Araga Ph.D. (IIT Hyderabad)	Synthesis of Nanomaterials; Advanced Oxidation Processes (AOPs); Photocatalysis; Wastewater Treatment
19.	Prof. P. Sampath Kumar Ph.D. (University of Hyderabad)	Energy & Fuels, Gas Sensors, Waste to Energy, Safety Engineering, Energy Storage Devices.

Short-term courses/workshops/seminars/symposia/conferences organised by the faculty members:

Sl. No	Title	Period	Scheme	Coordinators
1	Two-week National Immersion Academic Program	19th Feb to 7th Mar 2023	NIAP	Shirish H Sonawane,V Ramsagar and Raghu Raja Pandiyan K.
2	Recent advances in functional materials for energy storage and generation	23rdJan to 3rdFeb 2023	ATAL-FDP	Shirish H Sonawane, Srinath S and G Uday Bhaskar babu
3	SCHEMCON-2022 (18th Annual Session of Chemical Engineering Students Congress)	23rd & 24th September 2022	Department of Chemical Engineering NIT Warangal & IICHE	Srinath S, Chairman,Rajmohan K.S, and Raghuraja Pandiyan
4	One-week GIAN course on "Circular Economy and Resource Recovery for Sustainability	25th July to 29thJuly 2022.	GIAN	A. Sheshagiri Rao and S. Murali Mohan
5	5- Day Online International Faculty Development Programme on "Sustainable Nanotechnologies"	11th Oct to 18th Oct 2022	Department of Chemical Engineering GMR Institute of Technology, Rajam & NIT Warangal	P.V.Suresh

Journal Publications:

1. Yogesh A Bhadange, Virendra Kumar Saharan, Shirish H Sonawane, Grzegorz Boczkaj, Intensification of catechin extraction from the bark of Syzygium cumini using ultrasonication: optimization, characterization, degradation analysis and kinetic studies, *Chemical Engineering and Processing-Process Intensification*, Vol. 181, pp.10914, 2022.
2. Vikas S Hakke, Vividha K Landge, Shirish H Sonawane, G Uday Bhaskar Babu, Sivakumar Manickam, Grzegorz Boczkaj, Cu (II) ions removal from wastewater using starch nanoparticles An eco-sustainable approach, *The Canadian Journal of Chemical Engineering*, Vol 101, pp.1815, 2022.
3. SB Potdar, P Saudagar, I Potoroko, SH Sonawane, Novel ultrasonic atomization approach for sunflower oil in water emulsion, AIP *Conference Proceedings*, Vol 2478, 060001, 2022.
4. Raj Kumar, A Veeresh Babu, Shirish H Sonawane, Performance evaluation of a trapezoidal interconnector configuration of solid oxide fuel cell: A numerical study, *International Journal of Energy Research*, Vol. 46, pp.1-13, 2022.
5. Shirish Sonawane, Manoj P Rayaroth, Vividha K Landge, Kirill Fedorov, Grzegorz Boczkaj, Thermally activated persulfate-based Advanced Oxidation Processes—recent progress and

challenges in mineralization of persistent organic chemicals: a review, *Current Opinion in Chemical Engineering*, Vol. 37, pp.100839, 2022.

6. Vikas S Hakke, Vividha K Landge, Shirish H Sonawane, G Uday Bhaskar Babu, Muthupandian Ashokkumar, Erico MM Flores, The physical, mechanical, thermal and barrier properties of starch nanoparticle (SNP)/polyurethane (PU) nanocomposite films synthesised by an ultrasound-assisted process, *Ultrasonics Sonochemistry*, Vol. 88, pp.106069, 2022.
7. Shital B Potdar, Bharat A Bhanvase, Prakash Saudagar, Irina Potoroko, Shirish H Sonawane, ANN-based modelling of peppermint flavour encapsulation process with ultrasound approach, *The Canadian Journal of Chemical Engineering*, Vol. 100, pp.1718-1728, 2022.
8. Rajesh Kumar Polagani, Mallappa Annarao Devani, Gara Uday Bhaskar Babu, Mahendra Chinthala, Kotaiah Naik Dhanavath, Shirish H Sonawane, Ultrasound assisted impregnation of platinum on carbon for ORR activity in PEM fuel cell, *International Journal of Ambient Energy*, Vol. 43, pp.1-9, 2022.
9. Ramakant Gadhewal, Venu Vinod Ananthula, Venkata Suresh Patnaikuni, CFD Simulation of hot spot in PEM fuel cell with diverging and converging flow channels, *Materials Today: Proceedings*, Vol. 72, pp.410-416, 2022.
10. Suresh Chiluka, Shirish H Sonawane, Seshagiri Rao, G.Uday Bhaskar Babu, Robust control of discrete minimum and non-minimum phase systems via data-driven virtual reference feedback tuning and IMC, *Canadian Journal of Chemical Engineering*, Vol. 101, pp.2742, 2022.
11. Sapna Kumari, Mousumi Debnath, Shirish Hari Sonawane, Surya Teja Malkapuram, Murali Mohan Seepana, Dye Decolorization by Rhodococcus ruber Strain TES III Isolated from Textile Effluent Wastewater Contaminated Soil, *Chemistry Select*, Vol. 7, 2022.
12. Bommineni, P.K., Punnathanam, S., Calculation of interfacial free energy for binary hard sphere mixtures, *Proc. Indian Natl. Sci. Acad*. Vol 88, pp.802, 2022.
13. Shweta Malviya, Anjana P A, Ashish Gome, Simulation study of phenol degradation by Fenton process using ASPEN-Plus, *IJCT*, Vol. 29, No.4, 2022.
14. Vatti Anoop Kishore, Dewy Poulumi, Acharya Sriprasad, Kundarapu Laxman Kumar, Sampath Kumar Puttapati, Role of Ionic Liquid In Asphaltene Dissolution: A Combined Experimental and Molecular Dynamics Study, *Energy & Fuels*, Vol. 36, pp.9111, 2022.
15. Mahendra L. Bari, Shirish H. Sonawane, Satyendra Mishra and Tushar D. Deshpande, Surfactant assisted reactive crystallization of cobalt oxide nanoparticles in a tubular microreactor: effects of precursor concentrations and type of surfactants, *Reaction Chemistry and Engineering*, Vol. 8, pp.355, 2022.
16. Raj Kumar, A. Veeresh Babu & Shirish H. Sonawane, Numerical investigation of a novel rhombohedral interconnector configuration for planar solid oxide fuel cells, *International Journal of Green Energy*, Vol. 20, pp.1165, 2022.
17. Uday Bagale, Ammar Kadi, Artem Malinin, Irina Potoroko, Shirish Sonawane, Shital Potdar, Ultrasound-Assisted Stable Curcumin Nanoemulsion and Its Application in Bakery Product, *International Journal of Food Science*, Vol. 2022, pp.13, 2022.
18. Urgunde, Ajay B; Gaikwad, Ravindra W; Hakke, Vikas S; Sonawane, Shirish H; Warade, Annasaheb R, Modeling and gPROMS based simulation of adsorption process for the removal of Cu (II) from aqueous wastewater, *Indian Journal of Chemical Technology*, Vol. 29, pp.40-46, 2022.
19. A.R. Warade, G.B. Shinde, R.W. Gaikwad, Vikas S. Hakke, Shirish H. Sonawane, Abhay Lingayat, Intensification of pharmaceutical wastewater treatment using hydrodynamic cavitation process, *Materials Today: Proceedings*, Vol. 77, pp.692, 2022.

20. Shirish Sonawane, Kirill Fedorov, Manoj P. Rayaroth, Grzegorz Boczkaj, Degradation of 1,4-dioxane by sono-activated persulfates for water and wastewater treatment applications, *Water Resources and Industry*, Vol. 28, pp.100183, 2022.
21. Zahra Askarniya, Soroush Baradaran, Shirish H. Sonawane, Grzegorz Boczkaj, A comparative study on the decolorization of Tartrazine, Ponceau 4R, and Coomassie Brilliant Blue using persulfate and hydrogen peroxide based Advanced Oxidation Processes combined with Hydrodynamic Cavitation, *Chemical Engineering and Processing - Process Intensification*, Vol. 181, pp.109160, 2022.
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Conference Publications:

1. Agarwal Shruti Sumankumar, Venkata Suresh Patnaikuni, Praveen Kumar Bommineni, 3-E (Energy, Exergy & Ecological) analyses of Chemical Looping Air Separation integrated Oxy-Coal Combustion based Power plant, 33rd European Symposium on Computer Aided Process Engineering (ESCAPE-33), 18-21 June, 2023.
2. Shailesh Singh Sikarwar, Ramsagar Vooradi, Venkata Suresh Patnaikuni, Energy and Exergy analysis of Biomass Direct Chemical Looping Combustion for CO_2 capture and Utilization, 33rd European Symposium on Computer Aided Process Engineering (ESCAPE-33), 18-21 June, 2023
3. Kiran Donthula, Naresh Thota**,** Sarat Babu Anne, Manohar Kakunuri, Prediction of capacitance using artificial neural networks for carbon nanofiber-based supercapacitors, 33rd European Symposium on Computer Aided Process Engineering (ESCAPE-33), 18-21 June, 2023.

Books and Book Chapters:

Books Edited:

1. Shirish Sonawane, Sarang Gumfekar, Bharat Bhanvase, Process Intensification for Chemical and Biotechnology Industries, Elsevier, July 1, 2023, ISBN: 9780323951777.

Books Chapters:

1. Surya Teja M, Shirish H. Sonawane et al., Process Intensification: fundamentals and applications in chemical and biotechnology industries, Process Intensification for Chemical and Biotechnology Industries, Elsevier, July 1, 2023, ISBN: 9780323951777.
2. Sivaprakash S, Shirish H. Sonawane et al., Use of alternative energy sources for the initiation and execution of chemical reactions and processes, Process Intensification for Chemical and Biotechnology Industries, Elsevier, July 1, 2023, ISBN: 9780323951777.
3. Bharat Bhanvase and Shirish H. Sonawane, Compact heat exchangers, Process Intensification for Chemical and Biotechnology Industries, Elsevier, July 1, 2023, ISBN: 978032395177
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5. Sivaprakash S, Shirish H. Sonawane et al., Bioconverstion and biotransformation of waste glycerol to value-added products, Process Intensification for Chemical and Biotechnology Industries, Elsevier, July 1, 2023, ISBN: 9780323951777.
6. Yogesh Patil, Shirish Sonawane et al., Zero liquid discharge strategies for industrial wastewater reuse and resource recovery, Resource Recovery in Industrial Waste Waters, Elsevier, 2023, Pages 45-65, ISBN: 978-0-323-95327-6.
7. Padarthi, Yashwanth, and Raghu Raja Pandiyan Kuppusamy. "IoT-Based Embedded Sensor System for Real-Time Health Monitoring of Composite Structures for Large-Scale Industrial Operations." Industrial Automation and Robotics. CRC Press, 2023. 3-32.
8. Padarthi, Yashwanth, Swati Neogi and Raghu Raja Pandiyan Kuppusamy. "Recent advances in characterization of rapid cured composite materials" Rapid Cure Composites. Woodhead Publishing, 2023. 149-178.
9. Agarwal Shruti Sumankumar, Venkata Suresh Patnaikuni, Praveen Kumar Bommineni, 3-E (Energy, Exergy & Ecological) analyses of Chemical Looping Air Separation integrated Oxy-Coal Combustion based Power plant, Computer Aided Chemical Engineering, 52, 2023, Elsevier.
10. Shailesh Singh Sikarwar, Ramsagar Vooradi, Venkata Suresh Patnaikuni, Energy and Exergy analysis of Biomass Direct Chemical Looping Combustion for CO_2 capture and Utilization, Computer Aided Chemical Engineering, 52, 2023, Elsevier.
11. Kiran Donthula, Naresh Thota**,** Sarat Babu Anne, Manohar Kakunuri, Prediction of capacitance using artificial neural networks for carbon nanofiber-based supercapacitors, Computer Aided Chemical Engineering, 52, 2023, Elsevier.

Sponsored R&D Projects:

Sl.No.	Investigators	Title of the Project	Funding Agency	Grant Value (INR in lakhs)
1.	Manohar Kakunuri,	Design and Development of exfoliated	HBL power	69.79

	P. V. Suresh, Dr. V. Ramsagar	carbon cathode based 100 AH prismatic Al-ion cells	systems Ltd	
2.	Manohar Kakunuri	Design and development of hybrid capacitor	Kellton Tech Ltd	10.92
3.	P. V. Suresh, Dr. V. Ramsagar, Dr. Manohar Kakunuri	Design and operation of chemical looping combustion of coal and biomass for clean energy production with CO2 capture	SERB-CRG	29.95
4.	Shirish H. Sonawane, Raghu Raja Pandiyan	Process development for the synthesis of bio-leather with improved and close to natural leather in terms of durability,mechanical and thermal strength	Ecopelle Pvt Ltd	3.50
5.	Shirish Sonawane, Prakasha Saudakar, Avinash Sonawane, Shevtsov	Smart polymeric nanoparticles based delivery system for the delivery of anti-tuberculosis drug	SPARC	25
6.	Raghu Raja Pandian K, Shirish Sonawane	Combinatorial approach to predict synergistic ablation behaviour of hybrid nano filled phenolic carbon composites under aerodynamic loading through experimentations and process model simulations	SPARC	46
7.	V. Ramsagar, P. V. Suresh, K. Manohar	Development of low-cost indigenous oxygen carriers with high red-ox cyclic stability for Chemical Looping Combustion of high ash Indian Coals	SPARC	40.43
8.	Seshagiri Rao Ambati, T. K. Radhakrishnan	Advanced Control of Complex Pharmaceutical Processes	SPARC	48.9
9.	Shirish H Sonawane (CO-PI)	Development of durable and smart catalyst layer structures for low-temperature PEM fuel cells		272
10.	Anjana P A	Development of single-crystal pyrochlore nanomaterial and its study as electrolyte for Intermediate Temperature Solid Oxide Fuel Cells	SRG-SERB	24.97
11.	Anjana P A	Development for Hydrogen Peroxide dissociation for monopropellant Thrusters	ISRO, RESPOND	24.97
12.	Srinath S and Raghu Raja Pandiyan Kuppusamy	Development of 3D printable composite thermal shields using photo cure short fiber nano hybrid resins	DST	30.4

		through Reactive Additive Manufacturing Process		
13.	Shirish Sonwane and Srinath S	Development of Technology for color-coated Coins/Blank /Medallions and Tokens for Atmanirbhar Bharat	IGM Hyderabad,	10.4
14.	Shirish Sonwane	Development of effective robust process for the synthesis of polyacrylic based Microspheres	Kiron Lab USA/Gujarat India	5.3
15.	Anand Kishore Kola	Low-cost Biodegradable Polymer for Application in Food Packaging	SERB	25.5
16.	Anand Kishore Kola	Fabrication of multifunctional polypropylene doped graphene oxide incorporated polyaniline nanofiber for antistatic, anticorrsion and antimicrobial applications	NTTM of MoT	37
17.	Sheshagiri Rao A	Development of advanced automatic control based wastewater treatment process towards sustainable water-energy-food nexus	DST (DST/TMD)	67.49
18.	Shirish H Sonawane, and K S Rajmohan	Development of electrically conductive adhesives for flexible film circuits and microelectronics packaging	MeitY	277
19.	Shirish H Sonawane and P Shyam	Demonstration of technology for treatment of rain harvested water lakes in Warangal Telangana State		44.41
20.	Murali Mohan Seepana	Tackling textile pollution using a 3D printed hybrid process	Indo-UK international Project	£12,000.00

Patents:

Sl. No.	Title	Inventor(s)	Remarks
1	Constructive Design And Fabrication Of Polymer Electrolyte Membrane (Pem) Fuel Cell Stack And Its Components	Shirish H Sonawane	Granted on 2.12.2022 Patent Number: 413433

PhD Degree Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)	Month/year
1	Kalakuntala Raju	Catalytic reactive distillation for the esterification of propionic acid with n-butanol: Experimental and	Srinath S	November 2022

		simulation studies		
2	Ramakant Gadhewal	CFD Modeling of Hot Spot Identification and Mitigation in a PEM Fuel Cell	A.Venu Vinod and P.V. Suresh	December 2022
3	Shital Balasaheb Potdar	Extraction and Encapsulation of Bioactive Compounds Using Ultrasound Approach: Parameter Optimization	Shirish H Sonawane	December 2022
4	Kingstone Lesley Jabez	Study on Sulphur Cured Ethylene Propylene Diene Terpolymer Based Insulation for Large Composite Rocket Motor Casing	A. Sarath Babu	January 2023
5	Basant Kumar Pillai	Integration of calcium looping technology in coal, biomass and natural gas fired power plants – Energy, Exergy, Economic and Environmental analyses	A. Sarath Babu and Dr. V. Ramsagar	January 2023
6	Vikas Sadashiv Hakke	Process Intensification for Acid Hydrolysis of Starch and Cellulose for the Nanoparticle Production and Its Application	Shirish H Sonawane	June 2023
7	Vividha Kondba Landge	Development of Heterogeneous Nanocatalysts for Oxidation, Reduction and Photo-Degradation Reactions	Shirish H Sonawane	August 2023
8	Sheikh Abdul Gaffar	Development of Control Strategies for Enhanced Nutrient Removal in Biological Wastewater Treatment Plants	Dr. Murali Mohan Seepana and Dr. A. Seshagiri Rao	July 2022

Honours and Awards Obtained by Faculty:

S.No.	Faculty Member	Award	Awarded by	Awarded For	Date/year of Award
1	Shirish H Sonawane	Excellent innovation idea to tackle the plastic issue with polyurethane in the Green Polyol IDEAthon	AIT Thailand and University of Cambridge	Innovation	November 2022
2	Shirish H Sonawane	Faculty Secondment	Asian Institute of Technology, Bangkok	Secondment	2022

3	A. Venu Vinod	Emerging Leadership in Teaching Award	The World Leadership Academy	Academia	January 2023

Special Lectures Delivered by the Faculty in Other Institutions:

S.No.	Faculty Member	Topic of Lecture	Institution	Date
1	P. Sampath Kumar	Advanced Materials and Technologies for Super Capacitors	International Conference on Advances in Modern Science and Technology (ICAMSnT-2023)	22-04-2023
2	Rajmohan KS	Advances in Nanomaterial Fabrication, Characterization and Applications	UGC-Human Resource Development Centre JNTU Hyderabad	31.10.2022 to 05-11-2022
3	Rajmohan KS	Algal biofuels - current prospects and future perspectives & Microalgae as a source for energy and nutraceuticals	Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College Chennai	05-1-.2022 to 16-12-2022
4	Raghu Raja Pandiyan Kuppusamy	Development of Carbon-Epoxy Aerospace Composite Prepregs	Selvamm Arts & Science College, Namakkal	21-03-2023
5	Raghu Raja Pandiyan Kuppusamy	Development of Aircraft Wing Flap Composite Part using Resin Transfer Moulding Process Simulations	PSG College of Technology, Coimbatore, and Université Toulouse III – Clément Ader Institute-France	02-03-2023 and 03-03-2023
6	Anand Kishore Kola	21st Century Science and Technology" in the International Conference on Civil Engineering, Architecture and Sustainable Infrastructure (ICCEASI - 22) - virtual Conference	IFERP and Babu Banarasi Das University, Lucknow	09-02-2022 and 10-02-2022
7	Anand Kishore Kola	Science and Technology in 21st Century	Vigyan Prasar, NIT Warangal and Govt. Degree College, Siddipet	21-01-2022
8	Anand Kishore Kola	Engineering Challenges in 21st Century	KITS Warangal	28-02-2022

9	Anand Kishore Kola	How Seeds of Science Sown in Indian Constitution by Dr. Ambedkar	Vigyan Prasar and NIT Warangal	14-04-2022
10	Anand Kishore Kola	Application of novel techniques for wastewater treatment	College of Natural and Computational Sciences, SNNPR, Arba Minch University, Ethiopia	29-04-2022
11	Anand Kishore Kola	Awareness on Prohibition of Single Use Plastic (SUP)	Telangana State Pollution Control Board (TSPCB), Warangal Regional Office at Jangaon Collectorate	05-07-2022
12	Anand Kishore Kola	The challenges in exploring Digital Humanities in Indian literature and culture	National Seminar organized by SRR Govt. Arts & Science College, Karimnagar	10-02-2023
13	Anand Kishore Kola	Pedagogy of Our Times	HITAM College, Medchal.	24-02-2023
14	Anand Kishore Kola	Biomedical waste management rules'2016 and their compliance by health care facilities (HCFs)	Telangana State Pollution Control Board (TSPCB), Warangal Regional Office at Mulugu Dist. Collectorate	24-04-2023
15	Anand Kishore Kola	Membrane Technology for Process Intensification	Chemical Engg Dept. at NIT Warangal for the students of MIT - WPU, Pune	01-03-2023
16	Anand Kishore Kola	LIFE - Lifestyle For Environment (A global mass movement to promote climate-friendly behavior among individuals)	Telangana State Pollution Control Board (TSPCB), Begumpet Regional Office at Ranga Reddy and Vikarabad Dist. Collectorates	15-05-2023 and 16-05-2023
17	Anand Kishore Kola	Awareness Program on JoSAA/CSAB-2023 Counselling	TV 9 & KAB Educational Consultants at Nizam College Grounds, Hyderabad	09-06-2023 and 11-06-2023
18	P. V. Suresh	Chemical Looping Combustion based Coal-Fired Power Plants for Sustainable Thermal Power and Hydrogen production	Rajalakshmi Engineering College, Thandalam, Chennai	2023
19	P. V. Suresh	Introduction to CCUS and Chemical Looping Combustion (CLC) as a	Indian Institute of Petroleum and Energy (IIPE), Visakhapatnam.	23-01-2023 and 25-01-2023

		Promising CO2 Capture Technique		
20	P. V. Suresh	Chemical Looping Combustion based Coal-Fired Power Plants for Sustainable Thermal Power and Hydrogen production	Indian Institute of Petroleum and Energy (IIPE), Visakhapatnam.	23-01-2023 and 25-01-2023

Invited Lectures by External Experts:

Prof. Susumu Nii, Department of Chemical Engineering, Kagoshima University, Japan, delivered 'Sangeeta Memorial lecture' on "Ultrasonic atomization – fundamentals and applications" on 29 Sept 2023 at the Department of Chemical Engineering, NIT Warangal

Student Awards:

S.No	Name	Achievement Details (Conference paper, best paper award, abroad visit)	Date(s)
01	Mr. Dinesh Bejjanki	Presented an Oral talk on "2D MXene/MgO/few-layer Graphene Ternary Nanocomposite for High-performance Supercapacitor at the 11th International Conference on Materials for Advance Technologies (ICMAT 2023), 26th -30th June 2023, Singapore.	26th -30th June 2023
02	Mr. Varun Guptha Thalla	Daad-wise funded intern at Ruhr Univrsity Bochum, Germany.	22nd May -6th Aug 2023
03	Mr. Ajay Raj A	**RSC best poster presentation award** in 2nd International Conference on "Nanomaterials and Sustainable Applications" (NANO-SA-2023) organized by ICT Mumbai Marathwada Campus Jalna, India	January 10-11, 2023

DEPARTMENT OF CHEMISTRY

Faculty and Their Activities

Sl. No.	Name and Qualifications	Research Interests
	Professors (HAG)	
1	Prof. Kotha Laxma Reddy Ph.D. (Kakatiya University)	Coordination Chemistry, Supramolecular Chemistry, Environmental Chemistry
2	Prof. Vedula Rajeswar Rao Ph.D. (Kakatiya University)	Organic Synthesis; Semi Synthesis of Natural Products; Stereo Selective Synthesis; Synthesis of Organic Compounds with Medicinal Applications: Multi-component approach for the synthesis of new Organic molecules.
	Professors	
3	Prof. D. Kashinath (Head) Ph. D. (IIT Bombay)	Synthesis of biologically active compounds, Development of Synthetic Methods, Green Chemistry
4	Prof. K. V. Gobi Ph.D. (Madurai Kamaraj University, Madurai)	Electrochemical Biosensors, Supercapacitors, Fuel Cell Electrocatalysts
5	Prof. P. V. Srilakshmi Ph.D. (IICT, Hyderabad)	Bioorganic Chemistry, Drug Delivery/Gene Delivery
6	Prof. Vishnu Shanker PhD (IIT Delhi)	Nanostructured materials, Water Purification, H_2-generation, N_2-Fixation, CO_2 Reduction
7	Prof. N. Venkatathri Ph.D. (NCL, Pune)	Materials Chemistry, Heterogeneous Catalysis, Biomaterials and Electrochemistry
	Associate Professor	
8	Prof. Raghu Chitta Ph.D. (Wichita State University, Kansas, USA)	Solar Energy Harvesting Materials, and Fluorescent Chemosensors
9	Dr. B. Srinivas Ph.D. (Univ. of Hyderabad)	Organic synthesis, Supramolecular chemistry, Crystal engineering
10	Prof. K. Hari Prasad Ph. D. (IIT Kanpur)	Organic Synthesis, Carbohydrate Chemistry and Medicinal Chemistry
11	Prof. S. Nagarajan Ph.D. (Univ. of Madras)	Organic synthesis, Organic materials, Molecular self-assembly
12	Prof. Santhosh Penta Ph.D. (NIT Warangal)	Organic Synthesis and Medicinal Chemistry
	Assistant Professors	
13	Prof. M. Raghasudha Ph.D. (OU, Hyderabad)	Nanomaterials, Nanoferrites, magnetic nanocatalysts, photocatalysts. heterogeneous catalysis
14	Prof. C. Jugun Prakash Ph.D. (IIT Bombay)	Medicinal inorganic and bio-analytical chemistry
15	Prof. Ravinder Pawar Ph.D. (CSIR-CLRI)	Theoretical and computational Chemistry
16	Prof. Mukul Pradhan Ph. D. (IIT Kharagpur)	Novel nanocomposite, Flexible thermoelectric device, Battery and supercapacitor, Oxygen reduction reaction,

		Photoelectrochemical hydrogen generation.
17	Prof. Rajeshkhanna Gaddam Ph. D. (IIT Madras)	Nanoscience and Nanotechnology, Electrocatalysis H_2 production by electrolysis, Fuel Cells, Supercapacitors
18	Prof. V. Rajeshkumar Ph.D. (National Chiao Tung Univ., Taiwan)	Organic synthesis, Metal catalysis

Journal Publications:

1. S. Golla, H. P. Kokatla, Rongalite-Mediated Transition Metal-and Hydride-Free Chemoselective Reduction of α-Keto Esters and α-Keto Amides, Journal of Organic Chemistry, vol.87, pp. 9915-9925, 2022.
2. N. Anugu, S. Thunga, S. Poshala, H. P Kokatla,, *N*-Oxide-Induced Ugi Reaction: A Rapid Access to Quinoline-C2-amino Amides via Deoxygenative C(sp2)-H Functionalization, Journal of Organic Chemistry, vol.87, pp. 10435-10440, 2022.
3. Prashanth Goud Banda, Gayathri Bindu Kurup, Raghasudha Mucherla, Immobilization of Ag Nanoparticles on $NiFe_2O_4$@TiO_2@PDA: Multifunctional Catalytic Action toward the reduction of 4-Nitrophenol, Photodegradation of Methylene Blue and Ciprofloxacin**,** Journal of Physics and Chemistry of Solids, vol. 181, pp.111556, 2023.
4. Shankar Barapati, Raghasudha Mucherla, Ramesh Gade, P. Veera Somaiah, Photodegradation of Rhodamine B and Crystal Violet pollutants using Al doped Co-Mn ferrites and Dielectric Study, Journal of Materials Science-Materials in Electronics, vol.33, pp. 25139–25152, 2022.
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10. R. Arun Kumar, R. Supraja, R. Vara Prasad, B. Tohira Yogendra Kumar; C. U. Maheswari, V. Sridharan, R. Rakesh Kumar, S. Nagarajan, S. Electronically Robust Self-assembled

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14. A. Gupta, T. Jandial, M. Karuppasamy, N. Bhuvanesh, S. Nagarajan, C. U. Maheswari, V. Sridharan, Palladium-Catalyzed Intramolecular Oxypalladation-Initiated Cascade: Solvent-Dependent Chemodivergent Approach to Functionalized Benzazepines and Tetrahydroquinolines, *Chemical Communication*s, vol. 59, pp. 5233-5236, 2023.
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20. R. Arun Kumar, R. Vara Prasad, S. Nagarajan, Chapter 23 – Antibiofilm activities against food pathogens, Editor(s): Inamuddin, Charles Oluwaseun Adetunji, Applications of Next Generation Biosurfactants in the Food Sector, Elsevier, Academic Press, Pages 479-508, 2023. ISBN 9780128242834.
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Anti-oxidant, Anti-acne and Anti-bacterial Properties for Health & Wellness Applications. Arabian Journal of Chemistry, vol 16, issue 1, pp.104506, 2022.

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Sponsored R&D Projects:

Sl.No.	Investigators	Title of the Project	Funding Agency	Grant Value (INR in lakhs)
1.	Hari Prasad Kokatla	Transition Metal-Free C(sp2)–H methylenation of Heterocycles by Rongalite: A rapid access to C1-Homologation	SERB-EEQ	43.3
2.	Hari Prasad Kokatla	Rongalite-induced Consecutive C1-Homologation/Fluorination Strategy for selective fluorination of Organic molecules	SERB-SCP	41.25
3.	Raghu Chitta, Anuj K. Sharma	Non-Invasive Förster Resonance Energy Transfer (FRET) Operating Near-Infrared Benzothiazole-(Aza)Borondipyrromethene Based Fluorescent Probes for the Early Detection of Alzheimer's Disease	STARS	45.0
4.	Santhosh Penta	Design and synthesis of biologically relevance fused heterocycles via C-H activation / Oxidative cyclization / Tandem processes	SERB-EEQ	13.43
5.	Dr.Mukul Pradhan and Surya K. Ghosh	Sunlight-mediated conversion of plastic/bio-waste to heteroatom doped graphene-based hybrid materials: Application in energy harvesting, storage, and environmental remediation	DRDO	72. 26

Patents:

S. No	Title	Inventor(s)	Remarks
1.	An improved process for the synthesis of porous crystalline Silicoaluminophosphate molecular sieves through non-aqueous media	N. Venkatathri, and S. Suresh	Ind. Pat. (202241076919 dated of filing, 29/12/2022),

Short-term Courses/Workshops/Seminars/Symposia/Conferences Organised by the Faculty Members

S.No	Title	Dates	Scheme	Coordinators
1	International Conference Organic and Medicinal Chemistry-2023 (ICOMC-2023)	28-30th June, 2023	DST, CSIR, Industry	B. Srinivas K. Hari Prasad
2	Two-day national conference on "Recent Advances in Inorganic and Organometallic Chemistry-2023 (RAdIOC-2023)"	24th-25th February 2023	DST, CSIR, Industry	M. Raghasudha C. Jugun Prakash
3	National Science Day Celebrations"	27th-28th February 2023	DST (Vigyan Prasar)	M. Raghasudha C. Jugun Prakash
4	Recent Advances in Organic SYnthesis	19th January 2023	Sponsored (by the Family of Prof. S. Rajagopal)	D. Kashinath
5	Molecular Materials and Engineering	27th to 31st March 2023	SPARC	S. Nagarajan and C. Jugun Prakash
6	Non-conventional Methods in Organic Synthesis: A Sustainable Approach for Fine Chemicals, Platform Chemicals and Value Added Products	16-20 Oct 2023	GIAN	D. Kashinath and Shirish H. Sonawane

PhD Degree Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)	Month/year
1	Naveen Anugu	C(sp2)-H Functionalization of Quinolines, Imidazopyridines, Indoles and other C-N Bond Forming Reactions Using Isocyanide and Rongalite	Hari Prasad Kokatla	April-2023
2	Sivaparwathi Golla	Applications of Rongalite, Thiourea Dioxide And Sodium Dithionite For The Synthesis Of Functionalized 2-Oxindoles, Phenols, α-Hydroxy Esters/Amides and α-Diazo Esters	Hari Prasad Kokatla	March-2023
3	Soumya Poshala	New Methodologies For C−C and C-X (N, O and I) Bond Formation by Copper Nanoparticles and Trichloroacetonitrile	Hari Prasad Kokatla	January-2023

4	N. Satyanarayana	Synthesis of sulfonate esters containing heterocyclic scaffolds *via* sp^3 C-H activation and their biological evaluation	D. Kashinath	November, 2022
5	Vijender Reddy Karla	Development and Validation of Novel LC and LC-MS/MS Methods for Analytical and Bioanalytical Applications of Active Pharmaceutical Ingredients	Raghu Chitta (PI), and M. Raghasudha (co-PI)	March 2023
6	Shireesha Manturthi	Structure Activity Studies of Cationic Amphiphiles by INcorporating Novel Head Groups and LInkers for Targeted Gene Delivery Applications	PV Srilakshmi	March 2023
7	Hithavani Rapaka	Structure activity studies of cationic amphiphiles by incorporating novel head groups and linkers for targeted gene delivery applications	PV Srilakshmi	May 2023
8	Nitesh Balla	Surfactant mediated and green approach to fabricate nano Zno and doped system for industrial applications	PV Srilakshmi	September 2023

Honours and Awards Obtained by Faculty:

S.No.	Faculty Member	Award	Awarded by	Awarded For	Date/year of Award
1	Hari Prasad Kokatla	Young Researcher Award in Sciences	NIT Warangal and Alumni Association	Outstanding Research	2022
2	Vishnu Shankar	IAAM Innovation Award	Baltic Conference Series	Research	2023
3	N. Venkatathri	Fellow	Royal Society of Chemistry	Research	2023

Special Lectures Delivered by the Faculty in Other Institutions:

S.No.	Faculty Member	Topic of Lecture	Institution	Date
1	K. Hari Prasad	Recent Advances in Chemical and Environmental Sciences	Kakatiya Government College	22 September, 2022
2	S. Nagarajan	Green and Renewable Resources: Organic Materials Aspect	Saraswathi Narayanan College, Madurai	21st March 2023

3	D. Kashinath	Role of Spectroscopy in Drug Discovery	JNTU Hyderabad	5th Nov 2022
4	D. Kashinath	Synthesis and functionalization of spirooxindoles using organic bases, organocatalytic and catalyst-free conditions	RL Fine CHemicals, Bangalore	27th Sep 2022
5	D. Kashinath	Recent Advances in Organic Synthesis	Biophore Pharmaceuticals Limited, Hyderabad	10th June 2023
6	N. Venkatathri	Catalytic and Biological Applications of Amino Phosphates	VELS Institute of Science, Technology & Advanced Studies (Vistas), Chennai	25-27th September 2023
7	K V Gobi	Supercapacitors - Future Energy and Environment	Gandhigram Rural Institute, Tamilnadu	26th October 2023

DEPARTMENT OF CIVIL ENGINEERING

Faculty and their Activities:

Sl. No.	Name and Qualifications	Major Areas of Specialisation
	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. Ramaseshu D Ph. D. (NIT Warangal)	New Concretes, Repair & Health Monitoring of Structures
5.	Prof. M. Chandrasekhar Ph. D. (NIT Warangal)	Water and Wastewater treatment, Air quality modelling, Water quality modelling, Solid waste Management, EIA
	Professors	
6.	Prof. T. D. Gunneswara Rao (Head) Ph. D. (NIT Warangal)	Fracture Mechanics of Concrete Structures, Fiber Reinforced Concrete, Sustainable Construction Materials
7.	Prof. Kameshwar Rao CB Ph. D. (NIT Warangal)	Engineering Structures, Ferrocement, Fiber reinforced concrete, Sustainable Concrete, Torsion of RC members, Rehabilitation and retrofitting of structures, Remidial Engineering, Ductility of High Strength Concrete, Progressive Collapse,
8.	Prof. Deva Pratap Ph. D. (NIT Warangal)	Engineering Geology, Hydrogeology, Remote Sensing
9.	Prof. Rathish Kumar Pancharathi Ph. D. (NIT Warangal), Dr. Eng. KIT, Japan	Sustainable Concrete Making Materials, Earthquake Engineering, Health Monitoring of Structures, Repair and Rehabilitation of structures
10.	Prof. Ramana Murthy V Ph. D. (NIT Warangal)	Expansive soils, Reinforced Earth, Utilisation of waste materials like fly ash
11.	Prof. Hari Krishna P Ph. D. (NIT Warangal)	Granular Anchor Piles, Expansive Soils, Value based higher education
12.	Prof. M. Heeralal Ph. D. (NIT Warangal)	Recycled Aggregate in Pavements and Geo Environmental Engineering.
13.	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.
14.	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.
15.	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
16.	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.
17.	Prof. Arif Ali Baig Moghal Ph. D. (IISc Bangalore)	Geoenvironmental Engineering; Unsaturated Soil Mechanics; Bio-Geotechnics
Associate Professors		
18.	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
19.	Prof. Sudhakar M M. Tech. (NIT Warangal)	Steel fibre Reinforced Concrete
20.	Prof. Hari Prasad Reddy P Ph. D. (IISc Bangalore)	Solid Waste Management, Geoenvironmental Engineering, Water Treatment
21.	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.
22.	Prof. S. Shankar Ph. D. (NIT Warangal)	Low Volume Road Engineering, Pavement Analysis and Design, Pavement Management System, Pavement Material characterization
23.	Prof. M. Shashi Ph. D. (IIT Roorkee)	Close Range Photogrammtery, UAV Applications in Structural and Agriultural Health Monitoring, MicroWave Remote Sensing, Remote Sensing Applications in Urban Development, Advanced Surveying
24.	Prof. Ajey Kumar Patel Ph. D. (IISc Bangalore)	Computational Fluid Dynamics; Environmental Fluid Mechanics; Wastewater Engineering; Surface Aeration Systems
25.	Prof. D. Ravi Prasad Ph. D. (NIT Warangal)	Sustainable construction materials, Structural health monitoring, Hybrid Fiber reinforced engineered cementatious composites
26.	Prof. M. V. N. Sivakumar	Computational Mechanics; Fracture Mechanics

	Ph. D. (IIT Madras)	Applications to Metal and Concrete Structures; Finite Element and Reliability Applications to Nuclear Reactor Components; Experimental Studies on Special Concretes;Rheology of concrete
27.	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;
28.	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
29.	Prof. K. Gopikrishna Ph. D. (IIT Roorkee)	Multi hazards performance Assessment of structures, Computational Earthquake Engineering, Wavelet Finite Element Methods, and Multi-scale Modeling of structures.
30.	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 Professor		
31.	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.
32.	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.
33.	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
34.	Prof. Kavitha B Ph. D. (IIT Madras)	Engineering Seismology; Earthquake data analysis; Simulation of ground motions; Probabilistic Seismic Hazard Assessment; Earthquake Forecasting

35.	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.
36.	Prof. Sumanth Chinthala Ph. D. (IIT Delhi)	Air Pollution; Indoor Air Quality; Sustainable Development, Water and Waste water Mangement; Solid waste Management; Environmental Impact Assessment, Life Cycle Analysis
37.	Prof. Umesh B. Ph. D. (IIT Hyderabad)	Numerical Methods in Civil Engineering: Finite Difference Method, Finite Element Analysis and Iso-Geometric Analysis; Classical and nonClassical Continuum theories to study the Material Deformation and internal force distribution; Damage and Fracture Mechanics to study the crack propagation and related fields.
38.	Prof. B. Raghuram Kadali Ph. D. (IIT Bombay)	Pedestrian Cross Flow Modelling, Non-Motorized Safety, Traffic Safety, Driver Behaviour, Traffic flow modeling • Transportation Environment • Travel behavior, Sustainable Transportation • Freight Transportation
39.	Prof. Vishnu R Ph. D. (IIT Kharagpur)	Pavement Materials, Pavement Management Systems, Pavement Design and Evaluation
40.	Prof. Sudheer Kumar Yamsani Ph. D. (IIT Guwahati)	Geoenvironmental Engineering; Soil-Atmosphere Interaction; Reinforced soil structures; Applied Soil Mechanics
41.	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
42.	Prof. Manali Pal Ph. D. (IIT Kharagpur)	Hydrology; Climate Change; Soil Moisture Retrieval using Remote Sensing; Stochastic Modelling; Machine Learning and Artificial Intelligence.
43.	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;
44.	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

Short-term Courses/Workshops/Seminars/Symposia/Conferences Organised by the Faculty Members:

Sl. No.	Title	Period	Scheme	Coordinators
1	Advanced Non-Destructive Testing Methods for Condition Assessment of Materials and Structures	13-18 June 2022	GIAN	P. Rathish Kumar
2	International Conference "Cement and Building Koncrete for a sustainable and Resilient infrastructure	28-29 March, 2023	Industry sponsored	P.Rathish Kumar S.V.Rao T.P.Tezeswi D.Ravi Prasad MVN Sivakumar
3	High End Workshop (KARYASHALA) on Advances in Sustainable Materials, Construction and Technologies	11-17 Jan 2023,	Science and Engineering Research Board (SERB), [Accelerate Vigyan Scheme]	P.Rathish Kumar N.Ramesh Nayaka
4	"Ninth Conference on Transportation Systems Engineering and Management	October 12 to 14, 2023	-	C.S.R.K. Prasad, Venkaiah Chowdary, K.V.R. Ravi Shankar, S. Shankar, Arpan Mehar, Vishnu R., and K.B. Raghuram
5	Executive Development Programme on "New Technology Initiatives in Rural Roads and Use of Marginal Materials"	September 22 to 24, 2022	Sponsored by National Rural Infrastructure Development Agency, Ministry of Rural Development, Government of India, New Delhi	C.S.R.K. Prasad, Venkaiah Chowdary, and S. Shankar
6	Executive Development Programme on "Training for Newly Inducted Officers in PMGSY"	November 24 to 26, 2022	Sponsored by National Rural Infrastructure Development Agency, Ministry of Rural Development, Government of India	C.S.R.K. Prasad, Venkaiah Chowdary, and S. Shankar
7	Executive Development Programme on "Preparation of DPRs for Rural Road Projects"	November 27 to 29, 2022	Sponsored by National Rural Infrastructure Development	C.S.R.K. Prasad, Venkaiah Chowdary, and S. Shankar

			Agency, Ministry of Rural Development, Government of India	
8	Executive Development Programme on "New Technology Initiatives in Rural Roads and Use of Marginal Materials"	December 1 to 3, 2022	Sponsored by National Rural Infrastructure Development Agency, Ministry of Rural Development, Government of India	C.S.R.K. Prasad, Venkaiah Chowdary, and S. Shankar
9	Conclave on "Full-Depth Reclamation for Low-Volume Rural Roads"	February 24 to 25, 2023	Sponsored by (i) WIRTGEN INDIA Pvt. Ltd., Pune, (ii) Neha Infra Serices, Mumbai, (iii) Zydex Industries, Vadodara, (iv) Hindustan Colas Pvt. Ltd., Mumbai, (v) ANT Engineering, (vi) Coat Solutions Pvt. Ltd., Hyderabad, and (vii) Avijeet Agencies, Chennai	Vishnu R., S. Shankar, Venkaiah Chowdary, and C.S.R.K. Prasad
10	Executive Development Programme on "Design of Flexible and Rigid Pavements for Rural Roads"	March 16 to 18, 2023	Sponsored by National Rural Infrastructure Development Agency, Ministry of Rural Development, Government of India, New Delhi	C.S.R.K. Prasad, Venkaiah Chowdary, and S. Shankar
11	Executive Development Programme on "New Technology Initiatives in Rural Roads and Use of Marginal Materials"	March 23 to 25, 2023	Sponsored by National Rural Infrastructure Development Agency, Ministry of Rural Development, Government of India, New Delhi	C.S.R.K. Prasad, Venkaiah Chowdary, and S. Shankar

12	Training on Advanced Surveying Instruments and its Applications	May 29 – June 04, 2023	SERB - Accelerate Vigyan (KARYASHALA)	M. Shashi
13	high end workshop on Hydrological modelling under climate change	Jan 02-08, 2023	SERB - Accelerate Vigyan (KARYASHALA)	V. Vamsi Krishna Litan Kumar Ray N V Umamahesh
14	Workshop on Flood Management with the Help of Remote Sensing and GIS	Aug 21-27, 2023	ISRO Disaster Management Support Porgram	Litan Kumar Ray Vema Vamsi Krishna N V Umamahesh

Special lectures delivered by the faculty in other institutions:

S.No.	Faculty Member	Topic of Lecture	Institution	Date
1	T.P.Tezeswi	Waste Management In Indian Construction Industry	NIT Warangal & BITS Pilani - Hyderabad	18- 27, July 2022
2	T.P. Tezeswi	High strain Rate Testing of Materials	NIT Warangal	January 19-25, 2023
3	T.P. Tezeswi	Multiscale Modeling in Solid Mechanics	Indian Institute of Technology (Banaras Hindu University)	July 13-14, 2023
4	Rathish Kumar Pancharathi	Condition Assessment and Appraisal of critical infrastructure	NIT Warangal	October 30 – November 03, 2023
5	Rathish Kumar Pancharathi	Sustainable Materials and Life Cycle Impact Analysis of Blended Cements in Indian Context	Manipal Institute of Technology , Manipal	October 14-15, 2023
6	Rathish Kumar Pancharathi	Assessment of Mortars and Development of Novel Mortars for repair of Heritage structures	World Heritage Volunteers camp at Ramappa Temple	October 05, 2023
7	Rathish Kumar Pancharathi	Realizing Sustainable Development Goals through Low Energy Low Carbon Concretes	REVA University, Bangalore	December 14-15, 2022
8	Rathish Kumar Pancharathi	Inspection and Non-Destructive Evaluation of Critical Infrastructure	NIT Warangal	January 16, 2023
10	Rathish Kumar Pancharathi	Condition Assessment and Recent Advances in Non-Destructive Assessment of Structures	NIT Warangal	June 13-18, 2022
11	Rathish Kumar Pancharathi	Sustainable Materials and Technologies	NIT Warangal	July 18-27, 2022
12	M. Shashi	Applications of UAV in Heritage Mapping	UNESCO World Heritage	October 02-13, 2023

			Education Program	
13	Ravi Shankar KVR	Evolution of Transportation Systems and Technologies (ETST-2K23)	CVR College of Engineering, Hyderabad	August 30, September 03, 2023
14	Ravi Shankar KVR	Applications on Artificial Intelligence in Civil Engineering	TKM College of Engineering, Kollam, Kerala	30 January 2023 to 03 February 2023
15	Ravi Shankar KVR	Adaptive Designs and Applications in Pavement Technology and Safety	Transportation Engineering Research, Centre (TRC)	January 24-25, 2023
16	Ravi Shankar KVR	Neuro-Fuzzy Applications in Transportation Engineering	TKM College of Engineering, Kollam, Kerala	30 January 2023 to 03 February 2023
17	Raghuram B. Kadali	A study on the association between travel behaviour and traffic emissions in urban areas	Ghani Khan Choudhury Institute of Engineering and Technology	February 07, 2023
18	Raghuram B. Kadali	Public Adoption Intention of Public Bicycle Sharing System (PBSS) towards Sustainable Transportation	Ghani Khan Choudhury Institute of Engineering and Technology	February 02, 2023
19	S. Shankar	Performance Evaluation of Emulsified Asphalt Treated Reclaimed Asphalt Pavement Material in Bases	Dubai, UAE	November 08-09, 2023
20	S. Shankar	Joy of Civi Engineering and Transporation	Government Polytechinc Warangal	October 2023

Journal Publications:

1. Giri PSNR, Rathish Kumar Pancharathi and Rakesh Janib, Predicting Concrete Strength through Packing Density using Machine Learning Models, *Engineering Applications of Artificial Intelligence*, Vol. 26, pp. 107177, 2023.
2. Vikram Tati, Chandra Sekhar Karadumpa, P. S. N. R. Giri & Rathish Kumar Pancharathi, "Graphical user interface (GUI) for gradation of aggregate in pervious concrete pavements based on particle packing approach", *International Journal of Pavement Engineering*, Vol. 24, pp. 2246091, 2023.
3. Chandra Sekhar Karadumpa and Rathish Kumar Pancharathi, "Developing Low-Carbon Composite Cement Concretes Using Continuous Particle Packing Approach", *Arabian Journal for Science and Engineering*, 2023.https://doi.org/10.1007/s13369-022-07584-w.
4. Dharma Teja Godumula and K. V. R. Ravi Shankar, Safety evaluation of horizontal curves on two lane rural highways using machine learning algorithms: A priority-based study for sight distance improvements, *Traffic Injury Prevention*, vol. 24:4, pp.331-337, 2023.

5. Lalam Govinda and K.V.R. Ravishankar, Pedestrian Gap Acceptance Behavioral Modelling at Midblock and Uncontrolled Intersections, *U. Porto Journal of Engineering*, Vol. 9 (1), pp.150-159, 2023.
6. Raj Kumar, Arunkumar Goli, Bharath Varma Gottumukkala, S. Shankar &Kranthi Kumar Kuna (2023): Influence of curing process on the moisture loss, mechanical andperformance characteristics of cold recycled asphalt mixes, *Road Materials and Pavement Design*, 2023.https://doi.org/10.1080/14680629.2023.2199884
7. Chiranjeevi, G., Shankar, S. Evaluation of different porous asphalt gradations based on aggregate packing and stiffness parameters. *Innov. Infrastruct. Solut.*, 2023. https://doi.org/10.1007/s41062-022-00969-8.
8. Jithender, J., Mehar, A. Estimation of Queue Length at Signalized Intersection Under Non-Lane Based Traffic Conditions, *Periodica Polytechnica Transportation Engineering*, vol. 51(1), pp. 31–39, 2023.
9. SS Pallela, Mehar A, Examining the Lane-Wise Time Headway and Speed Characteristics at Curb-Side Bus Stop on Four-Lane Divided Urban Arterials, *Journal of The Institution of Engineers (India): Series A*, vol. 104 (2), pp.367-380, 2023.
10. Mitali, S., and Kadali, B. R. A study on meta-analysis approach for pedestrian-vehicle interaction using LiDAR, *Transportation Engineering*, 2023.https://doi.org/10.1016/j.treng.2023.100191
11. Khalil Ahmad Kakar and Prasad C.S.R.K., Using Multiple Regression Model Analysis to Understand the Impact of Travel Behaviour on COVID-19 Cases; *Proceedings of Third International Conference on Sustainable Computing*, pp 555-566, 2022.
12. Lin, J. J., Lin, T. Y., Kadali, B. R., and Subbarao, S. S. V., Zone-based TOD evaluation considering interdependences among criteria and zones, *Transport Policy*, 2023. https://doi.org/10.1016/j.tranpol.2023.01.011.
13. D. Nikhil Kumar, Pancharathi Rathish Kumar, Investigations on alternate LIme-Pozzolana based mortars for repair of heritage structures, *Construction and Building Materials*, Vol. 341, pp.127776, 2022.
14. D.Nikhil Kumar, Pancharathi Rathish Kumar, S.A.Reddi, Sri Rama Chand Madduru, Prioritisation of Self Curing Self Compacting Mortars with hydrophillic Chemicals using MCDM Techniques, International Journal of Computational Materials Science and Surface Engineering, 2022. 10.1504/IJCMSSE.2022.10049527.
15. Sravanthi Alamandala, R.L.N.Sai Prasad, Rathish Kumar Pancharathi & V.Guru Pratha Reddy, A comparative study of digital image correlation and fiber Bragg grating sensors based on strain measurements, Innovative Infrastructure Solutions, Vol.7, pp.167, 2022.
16. Anish Banerjee, V.Guru Prathap Reddy, Rathish Kumar Pancharathi, T.Tadepalli, A Novel method for Deterioration Assessment in concrete using Colorimetry Analysis, *Magazine of concrete research*, 2022.https://doi.org/10.1680/jmacr.21.00071
17. V.Guru Prathap Reddy, T. Tadepalli, Rathish Kumar Pancharathi, Surface imaging based non-destructive assessment of concrete deterioration using hue-saturation-intensity colour space, *Measurement*, Vol. 197, pp.111311, 2022.
18. Madhavilatha K, Rathish Kumar Pancharathi, Particle Packing Approach for Proportioning Recycled Aggregate from Building Demolition Waste (BDW)—A Sustainable Solution, Journal of Institution of Engineers, India Ser. A, 2022.https://doi.org/10.1007/s40030-022-00684-8

19. Sudheekar Reddy Periyavaram, Lavakumar Uppala, Srinivasan Sivaprakash, P. Hari Prasad Reddy, Thermal behaviour of hydrochar derived from hydrothermal carbonization of food waste using leachate as moisture source: Kinetic and thermodynamic analysis" *Bioresource Technology, Vol.* 373, pp.128734, 2023.
20. Sudheekar Reddy Periyavaram, Lavakumar Uppala, P. Hari Prasad Reddy, Hydrothermal carbonization of food waste: Effect of leachate on physicochemical and energetic properties of hydrochar" *Bioresource Technology Reports,* Vol.20, pp.101276, 2022.
21. Saikrishna Venna, Hari Bhakta Sharma, Debabrata Mandal, Hari Prasad Reddy, Shamik Chowdhury, Amreesh Chandra and Brajesh K Dubey, Carbon material produced by hydrothermal carbonisation of food waste as an electrode material for supercapacitor application: A circular economy approach, *Waste Management & Research*, Vol.40 (10), pp.1514-1526, 2022.
22. V. Renuka, S. Venkateswara Rao, Tezeswi Tadepalli, Nanoindentation technique in characterizing cementitious materials– A review, *Materials Today Proceedings*, 2023.https://doi.org/10.1016/j.matpr.2023.04.107
23. Alemayehu Letamo, Kavitha B, Tezeswi TP, Seismicity pattern of African regions from 1964–2022:b-value and energy mapping approach, *Geomatics, natural hazards and risk*, Vol. 14(1), pp.219710, 2023.
24. Alemayehu Letamo, Kavitha B and Tezeswi T.P, Statistical analysis of seismicity in the Horn of Africa, *Disaster Advances*, Vol.16(10), pp.17-23, 2023.
25. Swarna Swetha Kolaventi, Hikmatullah Momand, Tezeswi Tadepalli, M.V.N Siva Kumar, Construction waste process flow modeling: A road map for marketing construction and demolition waste in India, *Innovative Infrastructure Solutions*, 2022.https://doi.org/10.1007/s41062-022-00893-x
26. Swarna Swetha Kolaventi, Tezeswi Tadepalli, M.V.N Siva Kumar, Implementing construction waste management in India: An extended theory of planned behaviour approach, *Environmental Technology & Innovation*, Vol. 27, pp.102401, 2022.
27. Sangita Meshram, SP Raut, Khalid Ansari, Mangesh Madurwar, Md Daniyal, Mohammad Amir Khan, Vasudha Katare, Afzal Husain Khan, Nadeem A Khan, Mohd Abul Hasan, Waste slags as sustainable construction materials: a compressive review on physico mechanical properties, *Journal of Materials Research and Technology*, Vol. 23, pp.5821-5845, 2023.
28. Rutuja R Patil, Vasudha D Katare, Application of fiber reinforced cement composites in rigid pavements: A review, *Materials Today: Proceedings*, 2023. *https://doi.org/10.1016/j.matpr.2023.04.415.*
29. Pratiksha P Patil, Vasudha D Katare, Development of sustainable alkali-activated binder for building products using sugarcane bagasse ash: A review, *Materials Today: Proceedings,* 2023. *https://doi.org/10.1016/j.matpr.2023.04.097*
30. Jayaraman S. Sudarsan, Shruti Vaishampayan, Vidyadhar V. Gedam, Vasudha D. Katare, Pranav D. Pathak, Sustainable resource management through carbon emissions inventorization: A case of the Indian construction industry, *Environmental Quality Management*, 2023. https://doi.org/10.1002/tqem.22138
31. Ramani, K., Rudraswamy, G.K., Umamahesh, N.V., Optimal Design of Intermittent Water Distribution Network Considering Network Resilience and Equity in Water Supply. *Water*, 2023.https://doi.org/10.3390/w15183265

32. Nikhil Teja, K., Manikanta, V., Das, J., Umamahesh, N.V., Enhancing the predictability of flood forecasts by combining Numerical Weather Prediction ensembles with multiple hydrological models, *Journal of Hydrology,* 2023. https://doi.org/10.1016/j.jhydrol.2023.130176
33. Velpuri Manikanta, N. V. Umamahesh; Performance assessment of methods to estimate initial hydrologic conditions for event-based rainfall-runoff modelling. *Journal of Water and Climate Change*, Vol. 14 (7), pp. 2277–2293. 2023.
34. Rudraswamy, G.K., Velpuri Manikanta, Nanduri Umamahesh, Hydrological assessment of the Tungabhadra River Basin based on CMIP6 GCMs and multiple hydrological models, *Journal of Water and Climate Change*, 2023. 10.2166/wcc.2023.272
35. Manikanta, Velpuri, K. Nikhil Teja, Jew Das, N.V. Umamahesh, On the Verification of Ensemble Precipitation Forecasts over the Godavari River Basin, *Journal of Hydrology*, vol. 616, pp. 128794, 2023.
36. Jew Das, Subhadarsini Das & N.V. Umamahesh, Population Exposure to Drought Severities under Shared Socioeconomic Pathways Scenarios in India, *Science of The Total Environment*, vol. 867, pp.161566, 2023.
37. Manikanta V, Titas Ganguli & N. V. Umamahesh, A Multi Criteria Decision Making Based Nonparametric Method of Fragments to Disaggregate Daily Precipitation, *Journal of Hydrology*, vol. 617, pp. 128994, 2023.
38. Sagar Kumar M, N. V. Umamahesh; Simulation of flood hazard, prioritization of critical sub-catchments, and resilience study in an urban setting using PCSWMM: a case study. *Water Policy*, 2022. https://doi.org/10.2166/wp.2022.291
39. Das, S., Jew Das, Umamahesh N. V., Copula-based Drought Risk Analysis on Rainfed Agriculture under Stationary and Non-stationary Settings. *Hydrological Sciences Journal*. 2022. https://doi.org/10.1080/02626667.2022.2079416
40. Das, S., Jew Das, Umamahesh N. V., Investigating the Propagation of Droughts under the Influence of Large-scale Climate Indices in India, *Journal of Hydrology*, 2022.https://doi.org/10.1016/j.jhydrol.2022.127900
41. Das, S., Jew Das, Umamahesh N. V., A Non-stationary based Approach to Understand the Propagation of Meteorological to Agricultural Droughts. *Water Resources Management*, 2022.https://doi.org/10.1007/s11269-022-03297-9
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2. Kumar, D.N., Pancharathi Rathish Kumar (2022), "Life Cycle Assessment to identify sustainable lime pozzolana binders for repair of heritage structures", Advances in Sustainable Materials and Resilient Infrastructure" pp41-59, DOI: 10.1007/978-981-16-9744-9_3, Springer (Nature) Publishers.
3. K. Swarna Swetha, T.P.Tezeswi, Emerging Research Topics and Major Waste-Generating Materials in Construction and Demolition Waste Management: A Scientometric and Beneficial Index Analysis, Building Construction and Technology, Part of the Lecture Notes in Civil Engineering book series (LNCE,volume 360), July 2023, Springer,https://doi.org/10.1007/978-981-99-3526-0
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17. Diwakar G.S., Ravi Shankar KVR, Sesham Koushik, "Evaluation of Pedestrian Risk at Rotary Intersections Using Surrogate Safety Measures", 15th International Conference Eastern Asia Society for Transportation Studies 2023 (EASTS 2023), Malaysia, Sep. 04-07, 2023.
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29. Nagathathagari, R.R., Kadali, B.R., Subbarao, S.S.V., Lokku, P.S., (2023). Evaluation of Transit-Oriented Development (TOD) in Developing Countries Context. EASTS Conference Proceedings, 4-7th September 2023, Sha Alam, Malaysia.
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37. S. Pilli, P.P. Pushkar, P.V. Rao, R.D. Tyagi, 2023. "Energy Economics of the Municipal Solid Waste Process", International Conference on Solid Waste 2023: Waste Management in Circular Economy and Climate Resilience (ICSWHK2023), 31 May – 03 June 2023, Hong Kong.
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40. Divya Upadhyay*, Sneha Korpe, P. Venkateswara Rao., 2023. "Performance Evaluation of Cavitation Methods for Increasing Biodegradability of Tannery Wastewater Effluent", 4th International Conference on Waste Management, May 18-19, 2023, RECYCLE 2023, Guwahati.

Sponsored R&D Projects:

Sl.No.	Investigators	Title of the Project	Funding Agency	Grant Value (INR in Lakhs)
1.	Shyam(Co-PI), S.V.Rao(Co-PI), Thomas Dyer(PI) and Moray Newlands (Co-PI)	Use of Fungi as a Construction Component for Pre-Fabrication and Surface Treatment in the Built Environment	MHRD, GoI SPARC	43.85
2.	Ms. Ammu B. Crusho, Bishop Jerome Institute, Karbala, Kerala under the mentorship of Venkaiah Chowdary.	Evaluation of Interfacial Bond Strength in Bituminous Pavement Layer and Analysis Using BISAR 3 Software Tool	SERB, (TARE)	18.30
3.	Shashi Mesapam and Venkata Reddy Keesara	Crop Identification and Health Monitoring using UAV data and Satellite Imagery	SERB - CRG	38.39
4.	S. Shankar	In-Situ Performance Evaluation of Low Volume Rural Roads Constructed withGeosynthetics/	NRIDA	15.0

		Geotextiles		
5.		Development of Guidelines for Dense Graded Bituminous mix as Thin Surface Course Layer for Low Volume Roads,	NRIDA	28.0
6.		Development of Guidelines for Dense Graded Bituminous mix as Thin Surface Course Layer for Low Volume Roads,	NRIDA	17.7
7.		Development of Trip Generation Manual for Indian Cities'	SCIR, CRRI	8.14
8.		In-Situ Performance Evalaution of Low Volume Rural Roads Constructed with Geosyntheitcs/ Geotextiles	NRIDA	
9.	B Raghuram Kadali	A study of pedestrian exposure to traffic emissions and consequences to their travel behavior	SERB-SRG	28.26
10.		Evaluation of Transit Oriented Development (TOD) and Its Association with Travel Behavior and Gentrification Using Big Data Analytics	DST-GITA	44.17

PhD Degree Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)	Month/year
1.	K. Swarna Swetha	A Holistic Approach to Waste Management in Indian Construction Industry	T. P. Tezeswi and MVN Sivakumar	Oct 2022
2.	V. Guru Prathap Reddy	Condition Assessment of RC Bridges under Combined Deterioration Action	T. P. Tezeswi and Rathish Kumar Pancharathi	July, 2023
3.	G.T.L. Priyanka	Mechanical Response of 3D Printed Materials for Aerospace Applications	T. P. Tezeswi	July, 2023
4.	K. Chandrasekhar	A Study on Life Cycle Assessment of Composite Cement Concretes developed using Packing Density Approach	Rathish Kumar Pancharathi	Dec 2022
5.	D. Nikhil Kumar	Material Characterization of Ancient Mortars and Development of Sustainable Repair Mortars for Heritage	Rathish Kumar Pancharathi	July, 2023

		Structures		
6.	Subhadarsini Das	Drought Characterisation, Propagation and Risk over Indian Region	N V Umamahesh	November, 2022
7.	Kakara Srikanth	Influence of roughness induced dynamic loads on fatigue and rutting damages in flexible pavement	Venkaiah Chowdary	August, 2022
8	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	July, 2023
9.	Ms. Aneesha Satya B	comprehensive planning of urban drainage for flood control	M. Shashi	May 2023
10.	Mr. Kumarapu Kumar	Structural condition monitoring using multispectral and dic based methods	M. Shashi	
11.	G. Shravan Kumar	Experimental Studies on the Performance of Lime Fly Ash and Cement Stabilized Recycled Concrete Aggregate for the Base Course of Low Volume Roads	S. Shankar	2023
12.	Jithender Jatoth	Queueing analysis at signalized intersection for defining level of service under mixed traffic conditions	Arpan Mehar	2023
13	Mahaboob Peera	Development of Land Use Based Accident Prediction Models	CSRK Prasad	2022

Honours and Awards Obtained by Faculty:

Sl.No.	Faculty Member	Award	Awarded by	Awarded For	Date/year of Award
1	Rathish Kumar Pancharathi	Best Engineering Faculty Award	NIT Warangal and Alumni Assoc.	Outstanding teaching	2023
2	Raghuram B. Kadali	Delft Road Safety Course Fellowship		To attend Delft Road Safety Course	2023
3	Ravi Shankar K.V.R.	Young Researcher (Engineering) Award	NIT Warangal and Alumni Assoc.	Research	2023
4	Raghuram B. Kadali	Best Paper	Sha Alam,	For	2023

		Award	Malaysia	presenting paper	

Student Awards:

S.No	Name	Achievement Details (Conference paper, best paper award, abroad visit)	Date(s)
1	Ankita Hazarika	II M. Tech. (EE), Best paper Award in *Ninth Indian Young Geotechnical Engineers Conference*	21st to 22nd March 2023

Patents Granted:

Sl.No.	**Faculty Member**	**Patent Title**	**Grant Number, Date**
1	K.Chandrasekhar, P.Rathish Kumar and A.Suchith Reddy	Particle Packed Engineered Composite Cement Concrete	20-2022 106 484, 5 Jan 2023
2	P. Rathish Kumar and D. Nikhil Kumar	A Novel Binary Blended Lime GGBS Mortar Prepared Using Organic Fermented Water for Repair of Heritage Structures	Patent Application 2023/01847, 15th February 2023,

Consultancy Works:

1. Rathish Kumar Pancharathi, Vetting of Design Drawings of Multispeciality Hospital Building in Warangal, 2021-23 (Project Cost- 1650 Crores INR Approx).
2. Rathish Kumar Pancharathi, T.P.Tezeswi and Raviprasad D, Quality Control works of the ongoing renovation of Kaloji Kalakshetra, Cultural Center at Warangal 2023-Ongoing
3. N V Umamahesh, Vema Vamsi Krishna and Litan Kumar Ray, System Studies on Subarnarekha Mahanadi Interlinking Project, National Water Development Agency, September 2022, Ongoing
4. Benefit Monitoring Evaluation of Flyovers, Grade Separators, New Link Roads and CRMP in GHMC, Greater Hyderabad Municipal Corporation, Hyderabad, March – Dec. 2023, Cost: Rs. 2, 22, 03, 000/- .
5. KSHIP-3 Project- iRAP Star Rating of PWD North and North East zone Roads in the State of Karnataka (Package–1) Cost Rs. 36,81,600, Sponsored agency: GeoVista Technologies Pvt. Ltd., (Sep, 2022-Dec, 2023).

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Faculty and Their Activities:

Sl. No.	Name and Qualifications	Major Areas of Specialization
Professors (HAG)		
1.	Prof. DVLN Somayajulu Ph.D. (IIT Delhi) On deputation as Director IIITDM Kurnool	Databases, Information Extraction & Big Data
Professors		
1	Prof. R. Padmavathy (Head) Ph.D. (UoH)	Cryptanalysis and Network Security
2	Prof. R.B.V. Subramaanyam Ph.D. (IIT Kharagpur)	Data Mining, Big Data Analytics
3	Prof. P Radha Krishna Ph.D. (IIIT Hyderabad)	Data Mining, Machine Learning, Big Data, Databases and workflow Systems
4	Prof. K. Ramesh Ph.D. (NIT Warangal)	Architectures & Coding infrastructures in CNs
5	Prof. Ch. Sudhakar Ph.D. ((NIT Warangal)	Cloud Computing, Distributed Systems
6	Prof. Rashmi Ranjan Rout Ph.D. (IIT Kharagpur)	Computer Networks, Mobile Computing
Associate Professors		
8.	Prof. S. Ravi Chandra Ph.D. (NIT Warangal)	Software Engineering, Software Architecture
9	Prof. T. Ramakrishnudu Ph.D. (NIT Warangal)	Association Rule Mining; Distributed DM
10	Prof. Raju Bhukya Ph.D. (NIT Warangal)	Software Engineering, Computer Organization
11	Prof. U.S.N.Raju Ph.D. (JNTU)	Computer Vision and Image Processing
12	Prof. K.V. Kadambari Ph.D. (JNU New Delhi)	Computational Neuroscience
13	Prof. P. Venkata Subba Reddy Ph.D (NIT Trichy).	Algorithms and Graph Theory
14	Prof. Priyanka Chawla Ph.D. (TIET, Patiala)	Cloud Computing, Software Engineering, Nature Inspired Computing, Artificial Intelligence
15	Prof. Sriram Kailasam Ph.D. (IIT Madras)	Distributed Systems, Scalable algorithms for Formal Concept Analysis, Big Data Analytics
Assistant Professors		
16.	Prof. B Manjubala	Software reliability modeling

	Ph.D. (IIT Kharagpur)	
17.	Prof. Earnest Paul Ijjina Ph.D. (IIT Hyderabad)	Computer Vision, Video Content Analysis
18	Prof. E Suresh Babu Ph.D. (JNTU)	Wireless Networks, Block Chain, IoT
19	Prof. M Sandhya Ph.D. (University of Hyderabad)	Biometrics, Pattern Recognition
20	Prof. M Srinivas Ph.D. (IIT Hyderabad)	Image Processing, Medical Imaging,
21	Prof. IIaiah Kavati Ph.D. (University of Hyderabad)	Pattern recognition ,image processing
22	Prof. Sanjay Kumar Panda Ph.D. (IIT(ISM) Dhanbad)	Cloud and Fog Computing, Recommender Systems and Internet of Things
23	Prof. Bala Prakash Killi Ph.D. (IIT Guwahati)	Software Defined Networking. Internet of Things. Reinforcement Learning. Game Theory. Network Optimization.
24	Prof. Sangaratna Godboley Ph.D. (NIT Rourkela)	Program Analysis; Software Testing; Fuzzing; Verification; Smart Contracts; Machine Learning
25	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.
26	Prof. Venkateswara Rao Kagita Ph.D. (University of Hyderabad)	Recommender Systems; Machine Learning; Deep Learning; Data Mining
27	Prof. Sujit Das Ph.D. (NIT Durgapur)	Soft Computing, Artificial Intelligence, Evolutionary Computation, Machine learning, and Multi-criteria Decision Making

Journal Publications:

1. MR Golla, S Godboley, Automated SC-MCC test case generation using bounded model checking for safety-critical applications, *Expert Systems with Applications*, DOI:10.1016/j.eswa.2023.122033, 2023.
2. SK Barisal, SPS Chauhan, A Dutta, S Godboley, B Sahoo, DP Mohapatra, BOOMPizer: Minimization and prioritization of CONCOLIC based boosted MC/DC test cases, *Journal of King Saud University - Computer and Information Sciences*, vol. 34, 10, pp. 9757-9776, 2022
3. M Sandhya, M Morampudi, MK Pruthweraaj, GSI Pranay, Multi-instance cancelable iris authentication system using triplet loss for deep learning models, *Visual Computer*, vol. 39, pp. 1571–1581, 2023. https://doi.org/10.1007/s00371-022-02429-x
4. MK Morampudi, M Sandhya, M Dileep, Privacy-preserving bimodal authentication system using Fan-Vercauteren scheme, *Optik*, vol. 274, 2023.
5. DK Vallabhadas, MK Morampudi, S Mulagala, P Maheshwari, M Kadyan, Cancelable scheme for bimodal biometric authentication, *Journal of Electronic Imaging*, vol. 32(1), No. 013027, 2023.

6. DK Vallabhadas, M Sandhya, Securing multimodal biometric template using local random projection and homomorphic encryption, *Journal of Information Security and Applications*, vol. 70, No. 103339, 2022. https://doi.org/10.1016/j.jisa.2022.103339.
7. M Rampavan, EP Ijjina, Genetic brake-net: Deep learning based brake light detection for collision avoidance using genetic algorithm, *Knowledge-Based Systems*, vol. 264, pp. 110338-110351, 2023.
8. M Rampavan, EP Ijjina, Brake light detection of vehicles using differential evolution based neural architecture search, *Applied Soft Computing*, *147*, p.110839, 2023.
9. P Gugulothu, R Bhukya, Coot–Lion optimized deep learning algorithm for COVID-19 point mutation rate prediction using genome sequences, *Computer Methods in Biomechanics and Biomedical Engineering*, pp.1-20, 2023.
10. PB Reddy, C Sudhakar, An osmotic approach-based dynamic deadline-aware task offloading in edge–fog–cloud computing environment, *The Journal of Supercomputing*, vol. 79, No. 18 pp. 20938-20960, 2023.
11. US Varri, SK Pasupuleti, KV Kadambari, Practical verifiable multi-keyword attribute-based searchable signcryption in cloud storage, *Journal of Ambient Intelligence and Humanized Computing*, vol. 14(9), pp. 11455-11467, 2023.
12. S Panigrahi, USN Raju, D Pathak, KV Kadambari, H Ala, Rapid detection of COVID-19 from chest X-ray images using deep convolutional neural networks, *International Journal of Biomedical Engineering and Technology*, vol. 41 (1), pp. 1-15, 2023.
13. M. Pravali, M. Bisi, Diversity based imbalance learning approach for software fault prediction using machine learning models, *Applied Soft Computing*, vol. 124, No. 109069, 2022.
14. M. Pravali, M. Bisi, S Agrawal, BAFS: Binary artificial bee colony based feature selection approach to estimate software development effort, *International Journal of Information Technology*, vol. 15, no. 6, pp. 2975-2986, 2023.
15. Perumal, Murukessan, Akshay Nayak, R. Praneetha Sree, and M. Srinivas. INASNET: Automatic identification of coronavirus disease (COVID-19) based on chest X-ray using deep neural network, *ISA transactions* vol. 124, pp. 82-89, 2022
16. Varshini, U. Shivani Sri, R. Praneetha Sree, M. Srinivas, and R. B. V. Subramanyam. RDGT-GAN: Robust Distribution Generalization of Transformers for COVID-19 Fake News Detection. *IEEE Transactions on Computational Social Systems*, doi: 10.1109/TCSS.2023.3269595. 2023.
17. S Srinivasan, K Ramesh, Asynchronous Consensus in Synchronous Systems Using send_to_all Primitive, *SN Computer Science*, vol. *4* no. 6, pp.784, 2023.
18. Jain, Shivani, and R. Padmavathy. Lattice-based lightweight cryptosystem. *International Journal of Ad Hoc and Ubiquitous Computing* vol. 41, no. 3, pp. 135-146, 2022.
19. Babu, Jayanth, and R. Padmavathy. Quantum-Secure N2N Authentication Protocol Model for IoT Sensor Networks. *Arabian Journal for Science and Engineering* pp. 1-12, https://doi.org/10.1007/s13369-023-08242-5, 2023
20. Ganesh, Ponnuru Surya, R. Padmavathy, and Anil Pinapati. An efficient scalar multiplication algorithm on Koblitz curves using τ3-NAF. *International Journal of Security and Networks* vol. 17, no. 4, pp. 240-246, 2022
21. Jessica Judith D'souza, R. Padmavathy, Abhinav Dayal, Harika Gnanaveni, Sreenu Ponnada, Secure exchange and incentivised collaboration of machine learning models and datasets using

blockchain, *International Journal of Information and Computer Security*, vol. 19, no. 4 pp. 443-462, 2022

22. K Dheeraj, T Ramakrishnudu, Identifying the negative emotions from suicidal texts on social media with transformer-based deep learning, *Applied Intelligence*, vol. 53, no. 10, pp. 11885–11917, 2023.
23. KVTKN Prashanth, T Ramakrishnudu, Semi-supervised approach for tweet-level stress detection, *Natural Language Processing*, vol. 4, 2023.
24. GP Chander, S Das, Hesitant t-spherical fuzzy linear regression model based decision making approach using gradient descent method, *Engineering Applications of Artificial Intelligence*, vol. 122, pp. 106074, 2023
25. A Si, S Das, S Kar, Preferred hospitalization of COVID-19 patients using intuitionistic fuzzy set-based matching approach, *Granular Comp*uting, vol. 8, no. 3, pp. 525-549 2022.
26. SA Rather, S Das, Levy flight and Chaos Theory Based Gravitational Search Algorithm for Image Segmentation, *Mathemat*ics, vol. 11 no. 18, pp.3913, 2023.
27. Neha, Benazir, Sanjaya Kumar Panda, Pradip Kumar Sahu, Kshira Sagar Sahoo, and Amir H. Gandomi. A systematic review on osmotic computing. *ACM Transactions on Internet of Things* vol. 3, no. 2, pp. 1-30, 2022
28. TM Asif, SK Panda, A Resource Scheduling and Service Migration Algorithm for Maximizing Service Capability in Fog-Empowered Vehicular Ad-Hoc Networks, *Peer-to-Peer Networking and Applications*, vol. 16, no. 2, pp. 932-946, 2023.
29. Saha, Munmun, Sanjaya Kumar Panda, Suvasini Panigrahi, and David Taniar. An efficient composite cloud service model using multi-criteria decision-making techniques. *The Journal of Supercomputing* vol. 79, no. 8, pp. 8754-8788, 2023.
30. Gourisaria, Mahendra Kumar, Vinayak Singh, Rajdeep Chatterjee, Sanjay Kumar Panda, Manas Ranjan Pradhan, and Biwaranjan Acharya. PneuNetV1: A Deep Neural Network for Classification of Pneumothorax using CXR Images. *IEEE Access*, vol. 11, pp. 65028-65042, 2023.
31. Patro, S. Gopal Krishna, Brojo Kishore Mishra, Sanjaya Kumar Panda, Amrutashree Hota, Raghvendra Kumar, Shiyang Lyu, and David Taniar. A Conscious Cross-breed Recommendation Approach Confining Cold-start in Electronic Commerce Systems. *IEEE Access* vol. 11, pp. 82857-82870, 2023.
32. Patro, S. Gopal Krishna, Brojo Kishore Mishra, Sanjaya Kumar Panda, Raghvendra Kumar, Hoang Viet Long, and David Taniar. Cold start aware hybrid recommender system approach for E-commerce users. *Soft Computing*, vol. 27, no. 4, pp. 2071-2091, 2023
33. SK Panda, SS Nanda, SK Bhoi, A Pair-Based Task Scheduling Algorithm for Cloud Computing Environment, *Journal of King Saud University - Computer and Information Sciences*, vol. 34, issue 1, pp. 1434-1445, 2022.
34. MK Morampudi, M Sandhya, M Dileep, Privacy-preserving bimodal authentication system using Fan-Vercauteren scheme, *Optik*, vol. 274, pp. 170515, 2023.
35. SK Pande, P Swain, SK Nayak, SK Panda, An Indicator-Based Algorithm for Task Scheduling in Multi-Cloud Environment, *International Journal of Cloud and Service Computing*, vol. 12, issue 1, pp. 1-19, 2022.

36. L Sahoo, SK Panda, KK Das, A Review on Integration of Vehicular Ad-Hoc Networks and Cloud Computing, *International Journal of Cloud and Service Computing*, vol. 12, issue 1, pp. 1-23, 2022.
37. M Saha, SK Panda, S Panigrahi, A Modified Brown and Gibson Model for Cloud Service Selection, *International Journal of Computational Science and Engineerin*g, vol. 26, no. 4, pp. 430-444, 2022.
38. SK Nayak, SK Panda, S Das, Constrained-Based Power Management Algorithm for Green Cloud Computing, *International Journal of Computational Science and Engineering*, vol. 25, issue 6, pp. 657-667, 2022.
39. SK Nayak, SK Panda, S Das, SK Pande, A Multi-Objective Renewable Energy-Based Algorithm for Geographically Distributed Datacenters, *International Journal of Embedded Systems*, vol. 15, No. 2, pp. 119-131, 2022.
40. M Saha, SK Panda, S Panigrahi, A Survey on Applications of Multi-Attribute Decision Making Algorithms in Cloud Computing, *ECS Transactions*, vol. 106, pp. 1-14, 2022.
41. SGK Patro, BK Mishra, SK Panda, Hybrid Action-Allied Recommender Mechanism: An Unhackneyed Attribute for E-commerce, *ECS Transactions*, vol. 106, pp. 1-16, 2022.
42. U Mittal, P Chawla, Vehicle detection and traffic density estimation using ensemble of deep learning models, *Multimed Tools Appl*, vol. 82, no. 7, pp. 10397-10419, 2023
43. KS Pradhan, P Chawla, R Tiwari, HRDEL: High ranking deep ensemble learning-based lung cancer diagnosis model, *Expert Systems with Applications*. vol. 213, p.118956, 2023
44. U Mittal, P Chawla, R Tiwari, EnsembleNet: a hybrid approach for vehicle detection and estimation of traffic density based on faster R-CNN and YOLO models, *Neural Comput & Applic*. vol. 35, no. 6, pp. 4755-4774, 2023
45. M Nagaraju, P Chawla, Maize crop disease detection using NPNet-19 convolutional neural network, *Neural Comput & Applic*, vol. 35, no. 4, pp. 3075-3099, 2023
46. S Farooq, P Chawla, N Kumar, A cryptographic security framework for hybrid Cloud-Internet of Things network, *Security and Privacy*, vol. 6, no. 5, e309. 2023
47. P Chawla, JZ Gao, T Gao, C Luo, H Li, Y We, An interactive web-based solar energy prediction system using machine learning techniques, *Journal of Management Analytics*, vol. 10, no. 2, pp. 308-335, 2023
48. P Chawla, R Hasurkar, CR Bogadi, NS Korlapati, R Rajendran, S Ravichandran, SC Tolem, JZ Gao, Real-time traffic congestion prediction using big data and machine learning techniques, *World Journal of Engi*neering, https://doi.org/10.1108/WJE-07-2021-0428 2022
49. U Mittal, P Chawla, Acoustic Based Emergency Vehicle Detection Using Ensemble of deep Learning Models, *Procedia Computer Science*, vol. 218, pp. 227-234, 2023
50. M Nagaraju, P Chawla, R Tiwari, An Effective Image Augmentation Approach for Maize Crop Disease and Classification. *Springer, Cham*, vol 1672, 2022.
51. U Mittal, P Rana, D Singh, P Chawla, Acoustic Musical Instrument Recognition. Computational Intelligence in Analytics and Information Systems, *Apple Academic Press, Taylor & Francis*, vol 1. 2023
52. SK Raul, RR Rout, DVLN Somayajulu, Topic Classification Using Regularized Variable-Size CNN and Dynamic BPSO in Online Social Network, *Arabian Journal for Science and Engineering* https://doi.org/10.1007/s13369-023-08021-2, 2023.

53. P Parimi, RR Rout, FLACORM: fuzzy logic and ant colony optimization for rumor mitigation through stance prediction in online social networks, *Social Network Analysis and Mining*, vol 13, no. 20, 2023
54. I Kavati, V Akula, ES Babu, R Cheruku, GK Kumar, Complex Human Activity Recognition with Deep Inception Learning and Squeeze-Excitation Framework, *Journal of Information Assurance & Security*, vol. 17, No. 2, 2022.
55. ES Babu, I Kavati, R Cheruku, SR Nayak, U Ghosh, Trust-Based Permissioned Blockchain Network for Identification and Authentication of Internet of Smart Devices: An E-Commerce Prospective, *Journal of Interconnection Networks*, No. 2243001, https://doi.org/10.1142/S0219265922430010, 2022.
56. VD Reddy, MK Morampudi, S Maurya, A Abdul, MM Hussain, Ilaiah Kavati, Enhanced resource provisioning and migrating virtual machines in heterogeneous cloud data center, *Journal of Ambient Intelligence and Humanized Computing*, vol 14, pp. 12825–12836, 2023.
57. N Chelimilla, N Kali, S Korla, I Kavati, ES Babu, Bolt looseness detection in lap joints using Percussion Technique and Back Propagation Neural Network, *Journal of Mechanics and Design*, vol. 6(1), pp. 1-10, 2023.
58. B Padma, ES Babu, End-To-End Communication Protocol in IoT-enabled ZigBee Network: Investigation and Performance Analysis, *Internet of Things Journal*, vol. 22, 100796, 2023.
59. B Padma, ES Babu, Efficient Secure Communication in Zigbee Network Using the DNA Sequence Encryption Technique, *Life Journal*, vol. 13(5), No. 1147, 2023.
60. ES Babu, B Padma, Cooperative IDS Mechanism to Detect Collaborative Attacks against RPL-AODV Routing Protocol in LLN Networks, *Journal of Database Management (JDM), IGI Global*. Vol. 34, 2, pp. 1-33, 2023
61. ES Babu, A Barthwal, R Kaluri, Sec-Edge: Trusted Blockchain System for Enabling the Identification and Authentication of Edge Based 5G Networks, *Computer Communication*, vol. 199, pp. 10-29, 2023
62. ES Babu, I Kavati, R Cheruku, SR Nayak, U Ghosh, Trust-Based Permissioned Blockchain Network for Identification and Authentication of Internet of Smart Devices: An E-Commerce Prospective, Journal of Interconnections Network, World Scientific, 2022. https://doi.org/10.1142/S0219265922430010
63. AD Aguru, ES Babu, SR Nayak, A Sethy, A Verma, Integrated Industrial Reference Architecture for Smart Healthcare System in Internet of Things: A Systematic Investigation, *Algorithms, MPDI*, vol-15, pp. 309, 2022.https://doi.org/10.3390/a15090309
64. ES Babu, BKNS Rao, SR Nayak, A Verma, F Alqahtani, A Tolba, A Mukherjee, Blockchain-based Intrusion Detection System of IoT urban data with device authentication against DDoS attacks, *Computers and Electrical Engineering*, vol. 103, pp. 108287, 2022.
65. ES Babu, BVRN Yadav, AK Nikhath, SR Nayak, W Alnumay, MediBlocks: Secure Exchanging of Electronic Health Records (EHRs) Using Trust-Based Blockchain Network with Privacy Concern, *Cluster Computing*, Vol. 26, 4 pp. 2217-2244, 2023
66. V Ramakurthi, VK Manupati, J Machado, L Varela, ES Babu, An innovative approach for resource sharing and scheduling in a sustainable distributed manufacturing system, *Advanced Engineering Informatics*, 2022.I Kavati, V Akula, ES Babu, R Cheruku, GK Kumar, Complex Human Activity Recognition with Deep Inception Learning and Squeeze-Excitation Framework, *Journal of Information Assurance and Security*, vol. 17, pp. 080-090, 2022.

67. ES Babu, BKNS Rao, MS Rao, I Kavati, R Cheruku, Permissioned Blockchain-based Collaborative Intrusion Detection System to Secure Internet of Things Against DDoS Attacks, *Journal of Information Assurance and Security (JIAS)*, vol. 17, pp. 178-191, 2022.
68. ES Babu, I Kavati, SR Nayak, U Ghosh, WA Numay, Secure and Transparent Pharmaceutical Supply Chain using Permissioned Blockchain Network, *International Journal of Logistics Research and Applications*, 2022. https://doi.org/10.1080/13675567.2022.2045578
69. ES Babu, AK Dadi, KK Singh, SR Nayak, AK Bhoi, A Singh, A Distributed ID-based Authentication Scheme for Internet of Things (IoT) Devices using Permissioned Blockchain System, *Expert Systems, Wiley*, pp. 23, 2022. https://doi.org/10.1111/exsy.12941
70. ES Babu, MS Rao, S Naganjaneyulu, Secure Exchange And Effectual Verification of Educational Academic Records Using Hyperledger Fabric BlockChain System, *International Journal of Ad Hoc and Ubiquitous Computing*, vol. 40, issue 1-3, pp 194-213,,2022.
71. ES Babu, BKNS Rao, I Kavati, MS Rao, Verifiable Authentication and Issuance of Academic Certificates using Permissioned Blockchain Network, *International Journal of Information Security and Privacy (IJISP)*, vol. 16, issue 1, pp. 1-24, 2022.
72. VR Chintapalli, SB Korrapati, M Adeppady, BR Tamma, BR Killi, NFVPermit: Towards Ensuring Performance Isolation in NFV-based Systems, *IEEE Transactions on Network and Service Management*, vol 20, issue 2, pp. 1717 - 1732 2023.
73. H Singh, M Verma, R Cheruku, Novel Dilated Separable Convolution Networks for Efficient Video Salient ObjectDetectioninthe Wild, *IEEE Transactions on Instrumentation and Measurement*, vol. 72, pp. 5023213, 2023.
74. T Ragini, K Prakash, R Cheruku, DeTformer: A Novel Efficient Transformer Framework for Image Deraining, *Circuits, Systems & Signal Processing*, 2023. https://doi.org/10.1007/s00034-023-02499-9
75. Naik, Srinivas, Deepthi Kamidi, Sudeepthi Govathoti, Ramalingaswamy Cheruku, and A. Mallikarjuna Reddy. Efficient diabetic retinopathy detection using convolutional neural network and data augmentation. *Soft Computing*, 2023. https://doi.org/10.1007/s00500-023-08537-7
76. A Srinivas, R Cheruku, A Novel Stacking Framework with PSO Optimized SVM for Effective Disease Classification, *Journal of Intelligent Fuzzy Systems, vol.45, 3,* pp.4105-4123, 2023.
77. R Cheruku, A Srinivas, A novel diversity-based ensemble approach with genetic algorithm for effective disease diagnosis, *Soft Computing*, vol. 27, pp. 9907–9926, 2023.
78. Cheruku, Ramalingaswamy, Khaja Hussain, Ilaiah Kavati, A. Mallikarjuna Reddy, and K. Sudheer Reddy. "Sentiment classification with modified RoBERTa and recurrent neural networks. *Multimedia Tools and Applications*, 2023. DOI:10.1007/s11042-023-16833-5

Conference Publications:

1. Mittal, U., Chawla, P.. “Detection of Emergency Vehicles Using Radio Frequency Identification (RFID)”. International Conference on Artificial Intelligence for Smart Community. Lecture Notes in Electrical Engineering, vol 758. Springer, Singapore, 2022
2. Dilip Kumar Vallabhadas, Mulagala Sandhya, S. Sarkar and Y. R. Chandra, "Multimodal biometric authentication using Fully Homomorphic Encryption," 2nd International Conference

on Paradigm Shifts in Communications Embedded Systems, Machine Learning and Signal Processing (PCEMS), Nagpur, India, pp. 1-6, 2023

3. Vijaya M Lakshmi and Tene Ramakrishnudu, “Deep learning-based context-sensitive misspelling detection and correction in clinical notes”, 1st International Conference on Data & Digital Humanities- Text Mining and Multimodal Storytelling, Portugal, March 8-10, 2023.
4. Vijaya M Lakshmi and Tene Ramakrishnudu, “Joint model for extraction of clinical temporal relations at document level through deep learning”, in IEEE International Conference on Contemporary Computing and Communications, Bangalore, April 21- 22, 2023.
5. Al Ahdal, A., Chawla, P.. A Review on Machine Learning-Based Patient Scanning, Visualization, and Monitoring. International Conference on Innovative Computing and Communications. Lecture Notes in Networks and Systems, Springer, Singapore, 2023
6. Singh, I., Chawla, P., COVID-19 Detection and Classification Method Based on Machine Learning and Image Processing. Proceedings of the International Health Informatics Conference. Lecture Notes in Electrical Engineering, Springer, Singapore, 2023.
7. Farooq, S., Chawla, P.. A Comprehensive Security Review on Cloud Computing. Proceedings of Second International Conference on Computational Electronics for Wireless Communications. Lecture Notes in Networks and Systems. Springer, Singapore, 2023
8. Durgesh Lohar, Sanjaya Kumar Panda, Slokashree Padhi and Sanjib Kumar Nayak, "An Efficient Sybil Attack Detection Approach for Vehicular Ad-Hoc Networks", Seventh International Conference on Parallel, Distributed and Grid Computing (PDGC), IEEE, 25th-27th November, 2022.
9. Manas Kumar Mishra and Sanjaya Kumar Panda, "A Cost-Variant Renewable Energy-Based Scheduling Algorithm for Cloud Computing", 14th ACM International Conference on Contemporary Computing (IC3), pp. 91-97, 2022.
10. Kushagra Kinger, Ajeet Singh and Sanjaya Kumar Panda, "Priority-Aware Resource Allocation Algorithm for Cloud Computing", 14th ACM International Conference on Contemporary Computing (IC3), pp. 168-174, 2022.
11. Monika Tak, Akanksha Joshi and Sanjaya Kumar Panda, "Cloud Task Scheduling Algorithms using Teaching-Learning-Based Optimization and Jaya Algorithm", 14th ACM International Conference on Contemporary Computing (IC3), pp. 106-113, 2022.
12. Rakshit Agrawal, Mahendra Kumar Gourisaria and Sanjaya Kumar Panda, "Diagnosis of Heart Stroke Using Feature Extraction and Sequential Learning Based Models", 10th IEEE International Conference on Emerging Trends in Engineering and Technology Signal and Information Processing, 2022.
13. Sudha Dubba and Bala Prakasa Rao Killi, Energy Efficient Virtual Network Function Placement in NFV Enabled Networks, 37th International Conference on Advanced Information Networking and Applications (AINA), 2023
14. Sravya, Gudipati, Pasupuleti Syam Kumar, and R. Padmavathy Secure Lattice-Based Ciphertext-Policy Attribute-Based Encryption From Module-LWE For Cloud Storage, IEEE Cloud, 2023
15. Hemraj Singh, Mridula Verma and Ramalingaswamy Cheruku, Efficient Lightweight Model for Video Salient Object Detection for IoT and WoT Applications, USA, 2023
16. Hemraj Singh, Mridula Verma and Ramalingaswamy Cheruku, "VS-NET: Multi-Scale Spatio Temporal Features For Lightweight Video Salient Document Detection” in The 34th IEEE Conference on Tools with Artificial Intelligence, 2022.

17. Cheruku, Ramalingaswamy, Aman Kohli, Prakash Kodali, Ilaiah Kavati, and E. Sureshbabu, "Predicting Wildfire using Live Fuel Moisture Content with Machine Learning" in 19th INDICON 2022, Kerala, 2022
18. Srinivas Arukonda and Ramalingaswamy Cheruku, Hybrid Optimization of Bag Composition for Disease Diagnosis: Integrating Teaching-Learning-Based Optimization with Genetic Algorithm., 4th International Conference on Advanced Engineering Optimization Techniques, Surat, 2023.
19. Srinivas Arukonda and Ramalingaswamy Cheruku, Diversified Ensemble Learning: Integrating Bagging and TeachingLearning-Based Optimization with Pairwise Dissimilarity Measure, 4th International Conference on Advanced Engineering Optimization Techniques, Surat, 2023.
20. R Cheruku, A Kohli, P Kodali, Ilaiah Kavati E Sureshbabu "Predicting Wildfire using Live Fuel Moisture Content with Machine Learning." In IEEE 19th India Council International Conference (INDICON), pp. 1-6, 2022.
21. Saikrishna, D., Dhanush, B.S., Rao, M., Chawla, P., Mittal, U. . Big Data-Enabled Solutions for Covid-19. International Conference on Artificial Intelligence for Smart Community. Lecture Notes in Electrical Engineering. Springer, Singapore., 2022.
22. U. Mittal and P. Chawla, "Traffic Green Signal Optimization using Adaptive Neuro-Fuzzy Inference System on Coordinated Intersections," 10th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO), Noida, 2022.
23. Jayaram, Kumarapu, Malhaar Telang, Ravula Bharath Chandra Reddy, Yada Arun Kumar, Kore Shivanagendra Babu, Pooja Rana, Priyanka Chawla, and Usha Mittal Different Techniques in Neural Style Transfer-A Review. First International Conference on Computational Electronics for Wireless Communications. Lecture Notes in Networks and Systems, Springer, 2022.
24. Sangharatna Godboley. VeriCombTest: Automated Test Case Generation Technique Using a Combination of Verification and Combinatorial Testing. In Proceedings of the 18th International Conference on Evaluation of Novel Approaches to Software Engineering,, pages 306-313. Prague, Czech Republic, April 24-25, 2023.
25. Sangharatna Godboley, Rani, G. and Nenavath, S. (2023). Carbon-Box Testing. In Proceedings of the 18th International Conference on Evaluation of Novel Approaches to Software Engineering, ISBN 978-989-758-647-7, ISSN 2184-4895, pages 314-321. Prague, Czech Republic, April 24-25, 2023.
26. Sangharatna Godboley, P. Radha Krishna, SmartMuVerf: A Mutant Verifier for Smart Contracts, 18th International conference on Evaluation of Novel Approaches to Software Engineering (ENASE 2023), pp: 346-353, Prague, Czech Republic, April 24-25, 2023.
27. Sangharatna Godboley, Debasish Dalei, Ravichandra Sadam, and Durga Prasad Mohapatra. Agile GUI Testing by computing novel Mobile App Coverage Using Appium Tool. In Proceedings of the 38th ACM/SIGAPP Symposium on Applied Computing (SAC '23). Association for Computing Machinery, New York, NY, USA, 1026–1029, 2023
28. Monika Rani Golla and Sangharatna Godboley. GMutant: A gCov based Mutation Testing Analyser. In Proceedings of the 16th Innovations in Software Engineering Conference (ISEC '23). Association for Computing Machinery, New York, NY, USA, Article 22, 1–5, 2023
29. Sangharatna Godboley and Durga Prasad Mohapatra. 2023. 2nd Recent Advances in Program Analysis and Software Testing, In Proceedings of the 16th Innovations in Software Engineering Conference (ISEC '23). Association for Computing Machinery, New York, NY, USA, Article 27, 1–2, 2023

30. R. Dharanappagoudar, P. Gupta and Sangharatna Godboley, "CMHFL: A new Fault Localization technique based on Cochran–Mantel–Haenszel method," 2022 IEEE 19th India Council International Conference (INDICON), Kochi, pp. 1-7, 2022.
31. Sangharatna Godboley, Shantanu Agarwal and P Radha Krishna, Cyclomatic Complexity Analyst for Smart Contract Using Control Flow Graph, International Conference on Computing, Communication and Learning, October-27-29, Warangal, 2022.
32. Sangharatna Godboley, Arpita Dutta, P. Radha Krishna, and Durga Prasad Mohapatra, SSG-AFL: Vulnerability detection for Reactive Systems using Static Seed Generator based AFL", 16th IEEE COMPSAC 2022 International Workshop on Security, Trust, and Privacy for Software Applications (STPSA 2022), pp. 1728-1733. CA, USA, June 27-July 1, 2022.
33. Sangharatna Godboley, Joxan Jaffar, Rasool Maghareh and Arpita Dutta, Toward Optimal MC/DC Test Case Generation, 3rd KLEE Workshop, London, 2022.
34. Kumari, Varsha, P. Bhargava Reddy, and Chapram Sudhaka, "Performance Interpretation of Machine Learning Based Classifiers for e-HealthCare System in Fog Computing Network," IEEE Students Conference on Engineering and Systems (SCES), Prayagraj, India, pp. 01-05, 2022.
35. Akash Pandey, K V Kadambari, Clustering over Searchable Encrypted Data in Cloud Storage, International Conference on Computing, Communication, and Intelligent Systems, 2022.
36. Varshini, U. Shivani Sri, Murukessan Perumal, M. Srinivas, and R. B. V. Subramanyam, Attention-based Deep Neural Network for Wind Power and Solar Radiation Prediction, 2023 IEEE IAS Global Conference on Renewable Energy and Hydrogen Technologies (GlobConHT), Maldives, March 2023.
37. Venkatesh, Pruthvi Raj, Srinivas, and Radha Krishna, Tree Optimizer: A classifier-based task scheduling framework, ACM 24th ICDCN'23, Kharagpur, January 2023.
38. Behura, Aradhana, and M. Srinivas. Credit Card Fraud Detection Using Hybrid Learning, IEEE International Conference on Computing, Communication and Networking Technologies (ICCCNT 2022), Kharagpur, October 2022.
39. D. Jindal, Y. Kumawat, A. Sharma and M. Bisi, "Sentiment Analysis of Tweets during Covid-19 Lockdown in India", 14th International Conference on Computing Communication and Networking Technologies, Delhi, 6th July – 8th July, 2023.
40. M. Pravali and M. Bisi, "Ensembling Teaching-Learning-Based Optimization Algorithm with Analogy-Based Estimation to Predict Software Development Effort," 2022 13th International Conference on Computing Communication and Networking Technologies, Kharagpur, 2022, Oct 3 -5, 2022.
41. P. S Puvadda, S. Viswaja and M. Bisi, Code Injection Attacks Detection in Hybrid Applications using CNN, 3rd International Conference, Advances in Distributed Computing and Machine Learning, July, 2022.
42. S. Jha and M. Bisi, Teaching Learning Based Optimization Model to Generate Software Test Cases, 3rd International Conference, Advances in Distributed Computing and Machine Learning, July, 2022.
43. Sanjaya K. Panda, K. Ramesh, Karanam Indraneel, Manam Ramu and N. Navya Damayanthi, "Novel Service Broker and Load Balancing Policies for CloudSim-Based Visual Modeller", Seventh International Conference on Parallel, Distributed and Grid Computing (PDGC), IEEE, 25th-27th November, 2022.

44. R R Rout, M S. Obaidat, V Kumar, N Kumar, and P Parimi. "Learning Automata based Cache Update Policy in Fog-enabled Vehicular Adhoc Networks." Asia Conference on Advanced Robotics, Automation, and Control Engineering (ARACE), pp. 95-100, 2022.
45. Munmun Saha, Sanjaya Kumar Panda and Suvasini Panigrahi, "An Efficient Service Selection Algorithm for Cloud Computing", Third International Conference on Advances in Distributed Computing and Machine Learning, Springer, pp. 1-10, 2022.
46. Munmun Saha, Sanjaya Kumar Panda and Suvasini Panigrahi, "An Uncertainty-Aware Cloud Service Selection Model using CRITIC and MAUT", Third International Conference on Advances in Distributed Computing and Machine Learning, Springer, pp. 1-10, 2022.
47. Sahil Mishra and Sanjaya Kumar Panda, "Asymetrically Weighted Cosine Similarity for Recommendation Systems", Third International Conference on Advances in Distributed Computing and Machine Learning, Springer, pp. 1-10, 2022.
48. Aryan Karki, Chaitanya Hardikar, M Akshay Kumar, Sujit Das, Improved ANFIS Model based on Confinement Optimized PSO to predict the air quality of Delhi, India, FUZZ-IEEE 2023.
49. Sajad Ahmad Rather, Sujit Das, Hybridization of Levy Flight and Chaotic Gravitational Search Algorithm for Image Segmentation, iSES, 2022.

Sponsored R&D Projects:

Sl.No.	Investigators	Title of the Project	Funding Agency	Grant Value (INR in lakhs)
1.	R Padmavathy and Ravichandra	Design and Implementation of quasi polynomial time algorithm to solve discrete logarithm problem over GF(2^n)	DRDO	24.97
2.	E Sureshbabu and Kishore Kumar T	Developing a Secure End-to-End Communication Framework for IoT Federated Cloud Architecture using Hybrid Blockchain System (Phase-1)	DSCI	8.6
3.	Ch. Sudhakar, Ravichandra S and Rashmi Ranjan Rout	Courseware development for Course Advanced Operating System Design	DST, ISEAP	14.7
4.	M Srinivas and RBV Subramanyam	Data Verification and Validation	NAAC	10.0

Patents:

S.No	Title	Inventor(s)	Remarks
1.	Salt Tolerance Monitoring System	Prakash K, Ramesh D, Mamta Pathak, Ramalingaswamy Cheruku	Granted on Sep 26, 2023

Short-Term Courses/Workshops/Seminars/Symposia/Conferences Organised by the Faculty Members:

Sl. No	Title	Dates	Scheme	Coordinators
1	2nd Recent Advances in Program Analysis And Software Testing	23 February 2023	Conference Workshop	Sangaratna Godboley and Durga Prasad Mohapatra
2	Workshop on Recent Trends in Software Testing	22 December 2022 to 26 December 2022	Workshop	Sangaratna Godboley and Durga Prasad Mohapatra
3	Internet of Things	30 May to 29 June 2022	Workshop	E suresh babu
4	Smart Contract and Blockchain Technologies	30 January 2023 to 10 February 2023	FDP	Sangaratna Godboley and P. Radha Krishna
5	Deep Learning and its Applications	6 February 2023 to 10 February 2023	FDP	M. Sandya and Naveen Kishsore
6	Python for Scientific Computing	19 September 2022 to 23 September2022	FDP	Earnest Paul Ijjina and D Rjeeswara Rao
7	Python Programming for Artificial Intelligence, High Performance Computing, and Data Analytics	20 June 2022 to 1 July 2022	FDP	Sudhakar Ch.
8	Optimization Techniques: Theory, Practice, and Emerging Applications	22 August 2022 to 31 August 2022	FDP	Manjubala B and Sanjay Kumar Panda
9	Organized Optimization Techniques: Theory, Practice, and Emerging Applications	31 January 2023 to 08 February 2023	FDP	Manjubala B and Sanjay Kumar Panda
10	Deep Learning for Real Time Applications , SERB, DST	01 August 2022 to 07 August 2022	FDP	Mettu Srinivas
11	Medical Image Processing NKN	22 August 2022 to 02 August 2022	FDP	Mettu Srinivas
12	Deep Learning: Models and Use Cases	12 December 2022 to 21 December 2022	FDP	Mettu Srinivas

13	Big Data Analytics Tools and Techniques	28 December 2022 to 06 December 2023	FDP	Mettu Srinivas
14	Medical Applications using Machine & Deep Learning Techniques	02 January 2023 to 11 January 2023	FDP	Mettu Srinivas
15	Machine Learning and Deep Learning Applications	13 February 2023 to 22 February 2023	FDP	Mettu Srinivas
16	Machine Learning Applications in Engineering	20 February 2023 to 01 February 2023	FDP	Mettu Srinivas
17	Data Analytics and Transformation	09 May 2023 to 18 May 2023	FDP	Mettu Srinivas
18	Natural Language Processing	10 April 2023 to 19 April 2023	FDP	T. Ramakrishnudu
19	End-to-End Data Science Product Development	5 December 2022 to 9 December 2022	FDP	T. Ramakrishnudu and A Benerji Babu
20	End-to-End Data Science Product Development using Python	5 January 2023 to 9 January 2023	FDP	T. Ramakrishnudu and A Benerji Babu
21	Data Science for All with R	22 February 2023 to 26 February 2023	FDP	T. Ramakrishnudu and A Benerji Babu
22	Real Life Applications of AI, ML and Data Science	7 April 2023 to 16 April 2023	FDP	Sujit Das
23	Data Science and Machine Learning using Python	10 January 2023 to 14 January 2023	FDP	Sujit Das
24	Intelligent Computing and Applied Data Science	12 September 2022 to 16 September 2022	FDP	Sujit Das
25	ATAL FDP on Cloud and Fog Computing Platforms for IoT Applications	19 September 2022 to 30 September 2022	FDP	Rashmi Ranjan Rout and Sanjay Kumar panda
26	Artificial Intelligence & Applications	18 July 2022 to 28 July 2022	FDP	Ilaiah K
27	Emerging Research Trends in Block chain, Cyber Security and Digital Forensics	25 July 2022 to 04 August 2022	FDP	Ilaiah K

28	Cyber Crimes and Cyber Security	20 September 2022 to 01 October 2022	FDP	E suresh babu
29	Randomized and Approximation Algorithms	20 May 2023 to 30 May 2023	FDP	Bala Prakash Killi
30	Practical Quantum Computing	19 December 2022 to 30 December 2022	FDP	Bala Prakash Killi
31	Machine Learning for Data Science using Python	19 December 2022 to 28 December 2022	FDP	Bala Prakash Killi

PhD Degree Awarded:

Sl. No.	Student Name	Thesis Title	Supervisor(s)	Month/year
1	V. Uma Sankararao	Privacy-Preserving Ciphertext-Policy Attribute- Based Search over Encrypted Data in Cloud Storage	K. V Kadambri and Shyam Kumar	September 2022
2	Amdewar Godavari Ramlu	Design of Primary Storage Deduplication Schemes for Cloud Environment	Ch. Sudhakar	October 2022
3	Mukku Nisanth Kartheek	Texture based Feature Extraction Strategies for Facial Expression Recognition	Raju Bhukya and MVNK Prasad	October 2022
4	Debanjan Pathak	Content Based Image Retrieval based on Handcrafted and Deep Learning Methods	U.S.N Raju	December 2022
5	G. Spoorthy	Some Studies in Cross-Domain and Multi-criteria Recommendation systems using Collaborative filtering	S.G. Sanjeevi	May 2023
6	Amilpur Santhosh	Machine Learning based Methods for diverse Regulatory Genome Signals and Drug Prediction	Raju Bhukya	July 2022

Honours and awards obtained by faculty

Sl. No.	Faculty Member	Award	Awarded by	Awarded For	Date/year of Award
1	Sangharatna Godboley	RECOGNITION award	IEI NMLC FCRIT, Institution of Engineers	Research Excellence (Teaching Faculty-National) category	2023
2	Sangharatna Godboley	SERB International	SERB	International Travel	2023

		Travel Support (ITS) Award			
3	Sangharatna Godboley	Session Chair	QRS, Chiang Mai, Thailand	Academia and Research	2023
4	Ch Sudhakar	Session Chair	3rd International Conference on Computer Vision, High Performance Computing	Academia and Research	
5	Priyanka Chawla	Session Chair	International Conference: ERIIS	Academia and Research	Oct 14, 2022 - Oct 15, 2022
6	Priyanka Chawla	Session Chair	Kilby 100 7th International Joint Conference on Computing Sciences (ICCS)	Academia and Research	May 5, 2023
7	Priyanka Chawla	Session Chair	International Conference: ICCS 2022	Academia and Research	Nov 11, 2022
15	R Padmavathy	TPC Member	ICICSA	Academia and Research	Sep 23, 2022 - Sep 24, 2022
16	R Padmavathy	Session Chair	COCOLE 2022	Academia and Research	2022
17	T Ramakrishnudu	TPC	GUCON 2022	Academia and Research	September 2022
18	T Ramakrishnudu	TPC	International Conference on Artificial Intelligence of Things (ICAIoT)	Academia and Research	March 2023,
19	T Ramakrishnudu	TPC	IEEE International Conference on Contemporary Computing and Communications (InC4)	Academia and Research	April 2023
20	T Ramakrishnudu	TPC	IEEE IAS Global Conference on Emerging Technologies	Academia and Research	May, 2023
23	Sanjay Kumar	IEI Young	Institution of	Academia and	2022-23

	Panda	Engineers Award	Engineers, India	Research	
24	Sanjay Kumar Panda	IEEE Brand Ambassador	IEEE, USA	Academia and Research	2023
25	Sanjay Kumar Panda	IEEE R10 Ethics Champion	IEEE	Academia and Research	2023
27	Ilaiah K	Session Chair	ICACECS	Academia and Research	2022
28	Ilaiah K	Session Chair	ERIIS	Academia and Research	2022

Invited Lectures by External Experts:

1. Prof. Deepak Puthal from Khalifa University, UAE delivered a lecture on the topic "Software-Defined Perimeter: AI-driven Solution to Securing the Systems with User Demands" on July 13, 2023.
2. Prof. Murali Annavaram from University of South California, USA delivered a lecture on "Energy efficient sensor management for body area sensor networks" on Apr 30, 2023.

DEPARTMENT OF ELECTRICAL ENGINEERING

Faculty and Their Activities:

Sl. No.	Name and Qualifications	Major Areas of Specialisation
Professors (HAG)		
1.	Prof. D. M. Vinod Kumar Ph.D. (IIT Kanpur)	Artificial Intelligence (AI) applications to Power, Smart Grid Technology and Applications, Evolutionary algorithms.
2.	Prof. Siva Sarma D V S S Ph.D. (IIT Madras)	Fault diagnosis of Electrical Equipment, Power Quality, Renewable Energy Integration
3.	Dr. Somasekhar V. T. Ph.D (IISc Bangalore)	Power Electronics and Drives
Professors		
4.	Prof. Narasimharaju B. L. (Head) Ph.D (IIT Roorkee)	Grid & PV Fed LED Drivers for Lighting Systems; Multilevel Power Converters; Switched Reluctance Motor Drives
5.	Prof. N. Subramanyam Ph.D (NIT Warangal)	Distribution systems automation Integration of Distributes systems with grid Smart and micro grid architectures and systems
6.	Prof. Bhagwan Krishna Murthy Ph.D (IIT Madras)	Power Electronics and Drives
7.	Prof. Vishwanathan N Ph.D (IISc Bangalore)	Resonant power converters: Induction Heating Applications, Power Converters for LED Drivers, Battery Chargers, High gain Converters.
8.	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.
9.	Prof. Sailaja Kumari M Ph.D (NIT Warangal)	Power Markets, Synchrophasor applications in Power Systems, Power System Optimization, AI applications in Power Systems
10.	Prof. Srikanth N V Ph.D (NIT Warangal)	HVDC and FACTS, AI techniques application to power systems and towards smart electric grid. Micro grid modelling control
11.	Prof. Chintham Venkaiah Ph.D (NIT Warangal)	Power Systems
Associate Professors		
12.	Prof. Porpandiselvi S Ph.D (NIT Warangal)	PV-fed LED drivers, Induction Heating Applications, High frequency Soft-Switched Inverters
13.	Prof. Suresh Babu Perli Ph.D (JNTU Hyderabad)	Power System Protection, Electric Vehicles, Smart Grid
14.	Prof. A. Kirubakaran Ph.D (MANIT Bhopal)	Power Electronics- DC-DC Converters, DC-AC Inverters, Multilevel Inverters, Power Quality and Grid Interface, Renewable Energy and Distributed Generation.
15.	Prof. Bhookya Nagu	Power systems

	Ph.D (NIT Warangal)	
16.	Prof. G. Siva Kumar Ph.D (IIT Madras)	Power electronics application to the power system, renewable system, and AC microgrid
17.	Prof. D Sreenivasarao Ph.D (IIT Roorkee)	Power Electronics and Drives
18.	Prof. A. V. Giridhar Ph.D (IIT Madras)	High Voltage Engineering, Condition Monitoring & Diagnosis of Power Equipment's, Pulsed Power Technology, Nano Dielectrics.
19.	Prof. M Udaya Bhasker Ph.D (CITCEA-UPC, SPAIN)	Power Electronics-Bi-directional DC-DC converters, Energy Storage system, Digital Control system
Assistant Professor		
20.	Prof. Srinivasan Pradabane Ph.D (NIT Warangal)	Power Electronics and Drives
21.	Prof. Y. Chandrashekhar Ph.D (NIT Warangal)	Renewable energy resources in power systems; Microgrids; Multi-Microgrids; Optimization techniques,
22.	Prof. Ch. Ramulu Ph.D (NIT Warangal)	Power Electronics and Drives
23.	Prof. Vinay Kumar T Ph.D (NIT Warangal)	Power Electronics and Drives
24.	Prof. Satish Kumar I Ph.D (JNTU Kakinada)	Power systems
25.	Prof. Altaf Q H Badar Ph.D (VNIT Nagpur)	Evolutionary Optimization Techniques, Energy Trading, Energy Management
26.	Prof. Swati Devabhaktuni Ph.D (JNTU Hyderabad)	Power Electronics- DC-DC Converters, DC-AC Inverters, Grid Interface, induction motor drive, linear induction motor drive, control system
27.	Prof. Palash Mishra Ph.D (IIT Madras)	High voltage engineering
28.	Prof. Ram Krishan Ph.D (IIT Delhi)	Power systems
29.	Prof. R. Jeyasenthil Ph.D (IIT Bombay)	Control systems
30.	Prof. Kanasottu Anil Naik Ph.D (IIT Roorkee)	Wind energy system grid integration issues; Intelligent control techniques application in power system; DSP techniques application in power system
31.	Prof. Debasmita Panda Ph.D (IIT Kanpur)	Power systems
32.	Prof. Mahamad Nabab Alam Ph.D (IIT Roorkee)	Power system protection Microgrids; Planning and optimization of networked microgrids;

Journal Publications:

1. Dogga Raveendhra, Poojitha Rajana, B L Narasimharaju, Dreglea I. Aliona, Fang Liu, Daniil Panasetsky, Mukesh Pathak, Denis Sidorov*, "Part-I: State-of-the-Art Technologies of Solar Powered DC Microgrid with Hybrid Energy Storage Systems-Architecture Topologies", *Energies*, vol. 16, No. 923, pp.01-22, 2023.

2. S. Madhu Babu, Narasimharaju B. L, A New Generalized Symmetrical/Asymmetrical Boost Integrated Multilevel Inverter with Reduced Components for PV/UPS Applications, *T&F International Journal of Electronics*, 2023.https://doi.org/10.1080/00207217.2022.2164075
3. Vijaya Vardhan Reddy P, Narasimharaju B L, Suryavamshi H. M, (Sept -2023) Implementation of Dual Control MPPT-based DC-DC Converter fed Solar PV Power Application" *IEEE Transactions on Industrial Electronics*, Vol.70, No.09, pp.9016-9024, 2022.
4. M. F Baba, A. V Giridhar, B. L Narasimharaju, Active Switched Capacitor based Ultra Voltage Gain Quadratic Boost DC-DC Converters, *International Journal of Circuit Theory & Applications*, Vol.51, No.03, pp.1389-1416, 2023.
5. R. B. Pallapati and R. Chinthamalla, "Reduced Power Processing LED Driver With Constant Output Current," in IEEE Journal of Emerging and Selected Topics in Power Electronics, vol. 11, no. 3, pp. 3291-3301, 2023.
6. Pallapati, RB, Chinthamalla, R. Electrolytic capacitor-less reduced power processing single-phase LED driver with power decoupling using split capacitor. *Int J Circ Theor Appl.* Vol. 51, No.7, pp.3118-3145. 2023.
7. Battula Harish, Debasmita Panda, Krishna Reddy Konda, "A Comparative Study of Forecasting Problems on Electrical Load Time series Data using Deep Learning Techniques" (IEEE Transactions on Industry Application), 2023. (https://www.techrxiv.org/articles/preprint/A_Comparative_Study_of_Forecasting_Problems_on_Electrical_Load_Timeseries_Data_using_Deep_Learning_Techniques/23532108)
8. Thallapally, Pavani and Panda, Debasmita, "Role of Aggregators in the Design and Modelling of the Local Electricity Market" (Early Research Article, e-Library, Elsevier), 2023.http://dx.doi.org/10.2139/ssrn.4480107
9. Rayappa David Amar Raj and Kanasottu Anil Naik, "Solar Array Optimization Using Cryptographic Fibonacci Transformation for Global Power Enhancement and Ease of MPPT Controllers", *Energy Technology*, 2023.https://doi.org/10.1002/ente.202300380
10. Chepuri Venkateswara Rao, Rayappa David Amar Raj, and Kanasottu Anil Naik, "A novel hybrid image processing-based reconfiguration with RBF neural network MPPT approach for improving global maximum power and effective tracking of PV system", *International Journal Circuit Theory and Applications*, 2023.https://doi.org/10.1002/cta.3629
11. Rayappa David Amar Raj and Kanasottu Anil Naik, "Novel Shade Dispersion Techniques for Reconfiguration of Partially," *Smart Grids and Sustainable Energy*, 2023.https://doi.org/10.1007/s40866-023-00163-4
12. Rayappa David Amar Raj and Kanasottu Anil Naik, "A novel scan pattern for reconfiguration of partially shaded photovoltaic arrays for maximum power extraction", *International Journal Circuit Theory and Applications*, Vol. 51, No.2, 2022.
13. Kanasottu Anil Naik, Rayappa David Amar Raj, Chepuri Venkateswara Rao, and Thanikanti Sudhakar Babu "Generalized cryptographic image processing approaches using integer-series transformation for solar power optimization under partial shading" *Energy Conversion and Management*, vol. 272, No. 1-20, 2022.
14. Ramesh Daravath, Srinivasa Rao Sandepudi, "Control of multifunctional inverter to improve power quality in grid-tied solar photo voltaic systems" *International Journal of Emerging Electric Power Systems*, 2022.https://doi.org/10.1515/ ijeeps-2022-0117.

15. Ramesh Daravath, Srinivasa Rao Sandepudi, “Low voltage ride through control strategy for grid tied solar photovoltaic inverter" *International Journal of Emerging Electric Power Systems*, 2023.https://doi.org/10.1515/ijeeps-2022-0338
16. Harminder Singh Johar, Harminder Singh Johar, Abhijit Bhattacharya and Sandepudi Srinivasa Rao," Fault-Tolerant Power Supply for Aircraft-Store Interface", *Defence Science Journal*, Vol. 72, No. 5, pp. 679-686, 2022.
17. Satish Reddy Dodda and Srinivasa Rao Sandepudi, “Adaptive centralized energy management algorithm for islanded bipolar DC microgrid," *International Journal of Emerging Electric Power Systems*, 2023.https://doi.org/10.1515 /ijeeps-2023-0077
18. ArunKumar C R, Udaya Bhasker Manthati, “A Hybrid Controller Assisted Voltage Regulation and Power Splitting Strategy for Battery/Supercapacitor System in Autonomous DC Microgrid” *IEEE Transactions on Energy Conversion*, 2023.https://doi.org/10.1109/TEC.2023.3270292.
19. ArunKumar C R, Udaya Bhasker Manthati, “Dynamic Power Sharing Assisted Hybrid Controller for PV Fed Isolated DC Microgrid” *IEEE Systems Journal*, vol. 17, No.1, pp.1087-1097, 2023.
20. Ramesh Gugulothu, Bhookya Nagu Deepak Pullaguram, "Optimal coordinated energy management strategy for standalone solar photovoltaic system with hybrid energy storage," *Journal of Energy Storage*, Vol. 67, pp. 107628, 2023.
21. Ramesh Gugulothu, Bhookya Nagu Deepak Pullaguram, "Energy management strategy for standalone DC microgrid system with photovoltaic/fuel cell/battery storage," *Journal of Energy Storage*, Vol. 57, pp.106274, 2023.
22. Ramesh Gugulothu, Bhookya Nagu Deepak Pullaguram, " A computationally efficient Jaya optimization for fuel cell maximum power tracking, Energy Sources," *Part A: Recovery, Utilization, and Environmental Effects*, Vol. 44, No. 1, pp.1541-1565, 2022.
23. Bhavin Salvi, S. Porpandiselvi and N. Vishwanathan, "A Three Switch Resonant Inverter for Multiple Load Induction Heating Applications," *IEEE Transactions on Power Electronics*, vol. 37, No. 10, pp. 12108-12117, 2022.
24. Bhavin Salvi, S. Porpandiselvi and N. Vishwanathan, "An Inverter Circuit Configuration Suitable for Vessels of Different Material for Multi-load Induction Cooking Application," *IEEE Journal of Emerging and Selected Topics in Power Electronics*, vol. 11, No. 3, pp. 3223-3235, 2023.
25. B. D. Lemma and S. Pradabane, "An Optimized Alternative Fixed Switching 12-Sector Space Vector Pulse Width Modulation Control of Open-End Winding PMSM Drive," *IEEE Access*, vol. 11, pp. 55169-55177, 2023.
26. B. D. Lemma and S. Pradabane, "Control of PMSM Drive Using Lookup Table Based Compensated Duty Ratio Optimized Direct Torque Control (DTC)," *IEEE Access*, vol. 11, pp. 19863-19875, 2023.
27. Narender Reddy Kedika, Srinivasan Pradabane, "Floating-capacitor based inverter for open-ended winding induction motor drive with fault-tolerance," *International Journal of Electronics*, vol. 110, No. 8, pp.1468-1490, 2023.
28. Berhanu Deggefa Lemma , Srinivasan Pradabane, "An investigation of the ripple reduction capacity of compensated direct torque control with duty ratio optimization for permanent magnet synchronous motor drive," *International Journal of Advanced Technology and Engineering Exploration*, vol. 9, No. 89, pp.413, 2023.
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37. Chinmay Kumar Das, A. Kirubakaran, V.T. Somasekhar, K. Sateesh Kumar, "A Dual Quasi Z-Source Based T-Type Five-Level Inverter with Improved HERIC Structure for Photovoltaic Applications," *IEEE Transactions on Industry Applications*, Vol. 59, no. 4, pp. 4539-4549, 2023.
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Conference Publications:

1. Akash Misra, K. Srikanth, B.L. Narasimharaju, Performance Comparison of Multilevel and 2-level Inverters for High Voltage E-drive Application, IEEE International Students Conference on Electrical, Electronics and Computer Science (SCEECS-23), 18-19 February 2023, Bhopal pp.01-06.

2. Kartik Tank, Man Mohan Garg, B L Narasimharaju, MATLAB-based Simplified Mathematical Modelling of Non-ideal Differential Mode Inverters, 2022 IEEE 19th India Council International Conference (INDICON), 24-26 November, 2022, Kochi, pp.1-6.
3. K Sudha, D Raveendhra, B. L Narasimharaju, Single-Phase H6 Inverter with Hybrid Modulation Scheme for Solar PV application, IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation "(2nd IEEE SeFeT 2022), 2022, pp.1-6.
4. K Sudha, D Raveendhra, B. L Narasimharaju, Efficient Single-Phase Grid Connected Transformerless Inverter with Active and Reactive Power Control, IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (2nd IEEE SeFeT 2022), IEEE IAS Society & GRIET Hyderabad, 2022, pp.1-6.
5. Amulya, D Raveendhra, B. L Narasimharaju, SPV Power Conversion using Bidirectional H6 Inverter with reduced Common Mode Voltages, IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation "(2nd IEEE SeFeT 2022), IEEE IAS Society & GRIET Hyderabad, 2022, pp.1-6
6. Amulya, D Raveendhra, B. L Narasimharaju, Performance of Dual Differential Parallel Buck Grid Connected inverter for Solar Power Conversion, 2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation "(2nd IEEE SeFeT 2022), IEEE IAS Society & GRIET Hyderabad, 2022, pp.1-6.
7. Raveendra D, P.Babu Bobba, B L Narasimharaju, M. K Pathak, Synergetic Control Approach for Speed Control of Permanent Magnet Synchronous Motor, IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation "(2nd IEEE SeFeT 2022), IEEE IAS Society & GRIET Hyderabad, 2022, pp.1-6.
8. Prashanth M, Raveendhra D, A V Giridhar, B L Narasimharaju, Switched Reluctance Machine Drive Analysis with Fault-Tolerant Power Converter, IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation "(2nd IEEE SeFeT 2022), IEEE IAS Society & GRIET Hyderabad, 2022, pp.1-6.
9. Prashanth M, Raveendra D, A V Giridhar, B L Narasimharaju, DC-Link Current Ripple Reduction in Switched Reluctance Machine Drives, 2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation "(2nd IEEE SeFeT 2022), IEEE IAS Society & GRIET Hyderabad, 2022, pp.1-6.
10. Shashank V, B. L Narasimharaju, K Ashok Kumar & Madhu Babu S, AC-DC PFC-Boost Converter With Ripple Reduction Technique For E-Bike Battery Charging System, IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation "(2nd IEEE SeFeT 2022), IEEE IAS Society & GRIET Hyderabad, 2022, pp.1-6.
11. Kartik T, Man Mohan Garg, Nitin G and B L Narasimharaju, Performance Evaluation of Differential Mode Zeta Inverter using Various Modulation Schemes, IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation "(2nd IEEE SeFeT 2022), IEEE IAS Society & GRIET Hyderabad, 2022, pp.1-6.
12. B. Harish, D. Panda, K. R. Konda and A. Soni, "A Comparative Study of Forecasting Problems on Electrical Load Time series Data using Deep Learning Techniques," IEEE/IAS 59th Industrial and Commercial Power Systems Technical Conference (I&CPS), Las Vegas, NV, USA, 2023, pp. 1-5, doi: 10.1109/ICPS57144.2023.10142125.

13. D Panda, Altaf QH Badar, “Distribution Network Local Energy Market: A Comprehensive Review”, 2nd International Symposium on Sustainable Energy and Technological Advancements (ISSETA), 2023.
14. Sunil Ankeshwarapu, Vijay Saieesh ATC and Chintham Venkaiah, ‘Adaptive Fuzzy Campus Placement based Optimization Algorithm’, IEEE 5th International Conference on Energy, Power and Environment: Towards Flexible Green Energy Technologies (ICEPE), Shillong, pp. 1-6, June 15-17, 2023.
15. Sourabh Singh and Chintham Venkaiah, ‘Multi-layer Model Classifier for Cyberattack detection in Smart Electric Grid’, IEEE 5th International Conference on Energy, Power and Environment: Towards Flexible Green Energy Technologies (ICEPE), Shillong, pp. 1-6, June 15-17, 2023.
16. Sunil Ankeshwarapu and Chintham Venkaiah, Investigation of Power Flow Analysis in Networked Microgrids, International Conference on Smart Systems for applications in Electrical Sciences (ICSSES), Tumakuru, India, pp. 1-6, July 07-08, 2023.
17. Mallela Sahithi Prabhad, Altaf Q H Badar, “Comparative Study of Population-Based Algorithms for Solar PV Array Reconfiguration System for Partial Shading Conditions”, IEEE 2022 22nd National Power System Conference (NPSC), 17-19 December, 2022, Delhi.
18. Sahil S Varadkar, Snehal Vijay Unde and Altaf Q H Badar, “Techno-economic analysis of HES and CES using MRFO technique”, IEEE 2022 4th International Conference on Advances in Computing, Communication Control and Networking (ICAC3N), December 16-17, 2022, Galgotias University, Greater Noida, India. DOI: 10.1109/ICAC3N56670.2022.10073992
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20. Chinmay Kumar Das, A. Kirubakaran, V.T. Somasekhar and K. Sateesh Kumar, “A New Dual Quasi Z-Source Based T-Type Five-Level Inverter with HERIC Structure for PV System,” IEEE SEFET 2022, Hyderabad, pp.1-5, 2022.
21. V. S. Reddy C and S. Devabhaktuni, "Improved Low-Speed Performance of DTC controller-based Dual Voltage Source Inverter fed Five-Phase OEW Induction Motor," IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), Jaipur, India, 2022, pp. 1-4, doi: 10.1109/PEDES56012.2022.10080521
22. Naresh.R, and S. Devabhaktuni Predictive Torque Control of Five-Phase open-ended winding induction motor”, 4th Electric Power and Renewable Energy Conference, Springer, 2023.
23. S. Devabhaktuni ,”,Demand Side Management of Smart Grid by Fractal Analysis Approach”, 4th Electric Power and Renewable Energy Conference, Springer.
24. Gopi Krishna.D, S. Devabhaktuni ”PI Based Secondary Control of Microgrids by Considering Communication Delays with Three Sources”, 4th Electric Power and Renewable Energy Conference,Springer, May 2023.
25. Prem chand, S. Devabhaktuni “PV Partial Shading for Interleaved Quadratic High Gain DC-DC Converter”, 4th Electric Power and Renewable Energy Conference, Springer, May 2023.
26. S. Reddy C and S. Devabhaktuni, “A modified Direct Torque Control of Five-Phase Induction Motor for Harmonic Current Elimination and Reduction of Common Mode Voltage”, 4th Electric Power and Renewable Energy Conference, May-2023.

Sponsored R&D Projects:

Sl.No.	Investigators	Title of the Project	Funding Agency	Grant Value (INR in lakhs)
1.	K Venkata Reddy, S. Ravinchandra, B.L. Narasimharaju	Development of low-cost, open-hardware enabled watershed monitoring system for India	MHRD, GoI SPARC	91.61
2.	B L Narasimharaju , D. M Vinod Kuamr , A. V Giridhar, S. Srinivasa Rao and VV Mani	Design and Development of High Efficient Switched Reluctance Motor based Solar Photovoltaic (SPV) Water Pumping System (WPS)	IMPRINT-India, MHRD	79.84
3.	B L Narasimharaju , A. V Giridhar, Ch. Ramulu	Design and Development of New High Gain Transformer-less Inverter Topology for PV Based Grid Tie Applications	MHRD, GoI SPARC	68.99
4.	R. Jeyasenthil	Quantitative feedback theory based robust controller design for multivariable industrial plant emulator systems	SERB, DST	28.86
5.	T. Vinay Kumar	Investigation and Implementation of Model Predictive Control Strategies to a Multi-Phase Permanent Magnet Synchronous Motor for Photo-Voltaic based Hybrid Electric Vehicle Applications with Reduced Torque Ripple	EEQ-SERB, INDIA	24.36
6.	I. Satish Kumar	Development of real time hardware in loop model for robust load frequency controller for renewable energy rich interconnected micro-grids with V2G control and uncertainties	EEQ-SERB, INDIA	46.78
7.	I. Satish Kumar	Development of Smart Electric Grid Laboratory	DST-FIST grant	94.0
8.	Srinivasan Pradabane, Chandrasekhar Yammani	A fuzzy logic based efficient and robust control of EVs with open-end winding induction motor drive	European Project, EriGrid 2.0	20.0

Patents:

Sl. No.	Title	Inventor(s)	Remarks
1.	Full-Bridge Soft Switched Driver for LED Based Street Lighting Application	Neti Vishwanathan, S. Porpandiselvi, Kasi Ramakrishnareddy Ch	Granted on 19.04.2023, Patent Number: 429325

2.	Cyclic on-off Control for a Three-Output Inverter for Induction Cooking Application with Independent Control	Neti Vishwanathan, Devara Vijaya Bhaskar, Tanmoy Maity, S. Porpandiselvi	Published on 30.09.2016. Reply to FER submitted on 15/5/2020
3.	Model to Enhance Security and to Improve the Fault Tolerance	Suresh Babu Perli, Sonia Chhabra, Shakil Shaikh, L. Javid Ali	Indian patent Publication Number: 26/2022 Dt. 1.7.2022
4.	A Web-Enabled Smart Home Gateway for Automatic Device and Network Configuration and Automatic System Updates via IoT.	Suresh Babu Perli M Sreenivasulu Sekar K R Padmaja N	Australian Patent number : 2021107349 Date of Grant 15.12.2021
5.	Detection of stator incipient faults and identification of faulty phase in three-phase induction motor	Neerukonda Rama Devi, D.V.S.S.Siva Sarma, G.Ravikumar, M.V.Ramesh,	Date of Award: 21-12-2022

Short-term Courses/Workshops/Seminars/Symposia/Conferences Organised by the Faculty Members:

Sl. No	Title	Dates	Scheme	Coordinators
1.	Medium Voltage Multilevel Inverters for High Power Industrial Drives for Manufacturing and Solar Generation Applications**”, ,**	08th - 12th May 2023	Global Initiative on Academic Network (GIAN), Ministry of Education, Govt. of India.	Aksahy Rathore. Coordinators: B. L Narasimharaju A. V Giridhar
2.	Power Electronics, Energy Storage and Renewable Technologies (PEESRT) for E-Transportation in India (Advanced) Evaluation of Material Properties under Dynamic Loading	06th – 18th March, 2023	All India Council for Technical Education (AICTE), ATAL	B. L Narasimharaju
3.	Power Electronics, Energy Storage and Renewable Technologies (PEESRT) for E-Transportation in India (Basic)**,**	13 – 25 February, 2023	All India Council for Technical Education (AICTE), ATAL	B. L Narasimharaju
4.	Role of power electronics & advances in infrastructure for e-	11-19 July 2022,	EICT Academy NIT Warangal, Sponsored by Ministry of	B. L Narasimharaju

	mobility in india		Electronics and Information Technology (meity), GOI.	
5.	IEEE Sustainable Energy and Future Electric Transportation, SeFeT 2022	04– 06 August 2022	IEEE conference	B.L Narasimharaju
6.	IEEE Power Electronics Drives and Energy System, PEDES 2022	14-17 December 2022	IEEE conference	B. L Narasimharaju
7.	New Trends in Topological Development of Power Electronic Converters and its Control for Diverse-source fed Green Energy Applications,	24 - 26 November	IEEE 19th India Council International Conference, (IEEE INDICON 2022),	B. L Narasimharaju
8.	Recent Trends in Smart Energy Market (AI/ML, Blockchain Applications)	03-07 July 2023.	Center for Training and Learning (CTL) NIT Warangal	Debasmita Panda, Altaf Badar and Sailaja Kumari M
9.	Artificial Intelligence and ICT applications to Power System Protection	18 –27 July 2022,	EICT Academy NIT Warangal, Sponsored by Ministry of Electronics and Information Technology (meity), GOI	M Sailaja Kumari, K. Narasimha Rao
10.	International conference on Women Inclusive Network 2023, 023, Organizing secretaries:	18-19 March 2023	NIT Warangal	M Sailaja Kumari, H P Rai, K Madhavi, B. Spoorthi, Anajana.
11.	Intelligent solutions to challenges in renewable energy system and high voltage	19-23 December 2022	NIT Warangal	Ram Krishan

PhD Degree Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)	Month/year
1	Mr. S. Madhu Babu	Investigation on Single-Phase Step-Up Multilevel Inverters for Photovoltaic Standalone Applications	B. L. Narasimharaju	July 2022
2	Mr.G. Sunil Kumar	Modelling and Analysis of Harmonic loads using Signal Processing Algorithms	D.V.S.S. Sharma	August 2022
3	Mr.M. Kalyan	Investigations on PD Source	A.V.Giridhar,	August

	Chakravarthi	Localization in Power Transformer using Non-Invasive Monitoring Techniques	D.V.S.S. Sharma	2022
4	Mr. Srikant Srivatsava	Design of Fuel Flow Controller for Efficient and Stable Solid Ducted Ramjet Propulsion System for Air-to-Air Missile Applications	D.M. Vinod Kumar	August 2022
5	Mr. P. Hema Kumar	Fault-Tolerant BLDC Motor Drive Configurations for Low-Power Electric Vehicle Applications	V.T. Somasekar	August 2022
6	Mr. K. Srinivas	Resonant Inverter configurations for All-Metal Induction Cooking Applications	S. Porpandiselvi	August 2022
7	Mr. Sumon Dhara	Novel Transformerless Multilevel Inverter Topologies for Photovoltaic System with Voltage Boosting and Leakage Current Compliance	V.T. Somasekar	September 2022
8	Ms. Niveditha Sivadanam	Dynamic Performance Enhancement of Interconnected Power Systems in the Presence of Diverse HVDC Links and Plug-in Hybrid Electric Vehicles	Bhukhya Nagu	September 2022
9	Mr.Sagar Gajaman Petkar	Effective Direct Torque Control and Model Predictive Current Control Schemes of the Permanent Magnet Synchronous Motor Drive	T. Vinay Kumar	December, 2022
10	Mr. S. Sreekanta Reddy	Modelling and Reconfiguration of PV modules to enhance the output power under partial shading condition	Y. Chandrasekhar	December, 2022
11	Mr. Negasa Muleta	Investigations on Modelling of Hybrid Renewable Energy Sources for Power System Network: Case Studies	Altaf Q.H. Badar	February, 2023
12	Mr. Hariprasad D	Demand Response Management for Improving Power Quality using Deterministic Non-Intrusive Load Pattern Monitoring Technique for Smart Homes	D.V.S.S. Sharma	February, 2023
13	Mr. Hemasundara Rao Kolla	Multiple-Output Power Converter Topologies for LED Driver Application	B.K. Murthy	April 2023
14	Mr. A. Ravi Kumar	Investigation of Impact of Generation Uncertainty on Optimal Power Flow Using New	D. Vinod Kumar	May 2023

		Hybrid Multi-Objective Evolutionary Algorithms		
15	Mr Sandeep Kumar Reddy	Investigations on optimal sizing of Battery Energy Storage Systems in Microgrids for Economic operation	M. Sailaja Kumari	June 2023

Honours and Awards Obtained by Faculty:

Sl.No.	Faculty Member	Award	Awarded by	Awarded For	Date/year of Award
1	Prof. B. L Narasimharaju	Technical Track Chair/Meta Reviewer	MNIT, Jaipur	PEDES 2022	14-17 December 2022
2	Prof. B. L Narasimharaju	Coordinator/Member,	IEEE, Kochi	IEEE INDICON 2022	24th - 26th November 2022
3	Prof. B. L Narasimharaju	Publication Chair & Technical Track Chair	GREIT, Hyderabad	IEEE SeFeT 2022	04-06 August 2022
4	Dr. T. Vinay Kumar,	SIRE Fellowship Award	SERB	International Research Experience	Jan 2023 - May 2023

Special Lectures Delivered by the Faculty in Other Institutions:

Sl.No.	Faculty Member	Topic of Lecture	Institution	Date
1	B. L. Narasimharaju	High gain multilevel inverters for industry applications such as solar PV grid integration, electric vehicles applications, etc. Example & Simulation of High gain multilevel inverter circuit topology	NIT Warangal	08th - 12th May 2023
2	B. L Narasimharaju	AC Grid LED Drivers for High Bright Lighting Applications	GRIET, Hyderabad	06 – 18 March, 2023
3	B. L Narasimharaju	Bidirectional converters in EV and storage	GRIET, Hyderabad	06 – 18 March, 2023
4	B. L Narasimharaju	Off Grid fed LED Drivers for Automobile Lighting System	GRIET, Hyderabad	06 – 18 March, 2023
5	B. L Narasimharaju	Switched Reluctance Drive & its Control for EVs	GRIET, Hyderabad	06 – 18 March, 2023
6	B. L Narasimharaju	LED Drivers for High Bright Lighting Applications	MNIT Jaipur-NIT Warangal	11 -19 july 2022
7	B. L Narasimharaju	Bidirectional converters in EV storage hands on simulation	MNIT Jaipur-NIT Warangal	11 -19 july 2022

8	Altaf Q H Badar	Emerging Optimization Techniques for Optimal Demand Response	REC Sonbhadra	04th March 2022
9	K. Anil Naik	Control and Integration of Renewable Energy	NIT Warangal	18-27 April, 2022
10	Dr. Swati Devabhaktuni	MPPT of wind turbine fed WECS	IEEE PES Hyderabad	28th July 2022
11	M. N. Alam	Smart Grid Protection	NIT Warangal	25th April 2022
12	M.Sailaja Kumari	Ujjawal Bharat Ujjwal Bhavishy	Powergrid 400kV SS, Ogulapur	28/07/2022
13	Ram Krishan	Modeling and simulation of Renewable Energy Resources	NSUT Delhi	14 June 2023
14	Debasmita Panda	'Introduction to GAMS and Blockchain Application in Energy Market	NIT Warangal	July 2023
15	Debasmita Panda	Power Market Design	POSOCO Industry, India	January 2023
16	Debasmita Panda	Cyber Security Challenges, Detection and Mitigation Techniques for the Smart Grid	-	July 2022

Invited Lectures by External Experts:

1. Six-Day GIAN course on “Medium Voltage Multilevel Inverters for High Power Industrial Drives for Manufacturing and Solar Generation Applications”, 08-12 May 2023, sponsored by Global Initiative on Academic Network (GIAN), Ministry of Education, Govt. of India. Foreign Expert Professor: Prof. Akshay Kumar Rathore, IEEE Fellow. Coordinators: B. L Narasimharaju & A. V Giridhar.

Student Awards:

Sl.No	Name	Achievement Details (Conference paper, best paper award, abroad visit)	Date(s)
1.	D. Gopi Krishna	Won best Paper award in the EPREC-2022 conference	May-2023
2.	Md. Sameer Khan	Won best B.Tech thesis award from NIT Warangal EED	May-2023

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty and Their Activities

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. C B. Rama Rao Ph.D. (IIT Kharagpur)	Digital Signal Processing, Adaptive Signal Processing, DSP Architectures and Algorithms, Bio Medical Signal Processing.
3.	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
4.	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
5.	Prof. L. Anjaneyulu Ph.D. (NIT Warangal)	Computer Networks, Antennas, Microwave Engineering, Signal Processing, Radar Signal processing, Antennas Underwater communications
6.	Prof. N. Bheema Rao Ph.D. (IIT Bombay)	On-Chip Inductors for RF Applications and Device Modelling
7.	Prof. B. Lakshmi Ph.D. (I.I.T Kharagpur)	IoT VLSI Architectures Embedded System Design FPGA Design Low Power VLSI design
8.	Prof. TVK Hanumantha Rao Ph.D. (Anna University)	Biomedical signal processing and Fault tolerant network on chip
9.	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.
10.	Prof. V.V. Mani Ph.D. (IIT Delhi)	Signal Processing for wireless communication MIMO OFDM UWB & Green Communication
11.	Prof. J. Ravi Kumar Ph.D. (NIT Warangal)	Signal Processing, Control System Design, Machine Learning
12.	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		
13.	Prof. M.V. Raghunadh M.E. (University of Roorkee)	5G Communications, Image Processing, Pattern Recognition
14.	Prof. K. Ravi Kishore M.Tech (NIT Warangal)	Wireless Sensor & Computer Networks Digital System Design Wireless Communications
15.	Prof. S.K.L.V. Sai Prakash Ph.D. (NIT Warangal)	Wireless Communications, Cellular Networks, Computer Networks and Internet of Things
16.	Prof. P. Hari Krishna Prasad M.E. (Sri Venkateswara University)	Wireless communications
17.	Prof. K.V. Sridhar Ph.D. (NIT Warangal)	Bio-medical signal/Image Processing Adaptive Signal Processing
18.	Prof. A. Prakasa Rao Ph.D. (NIT Warangal)	Smart Antenna Systems, Optimization Techniques, EDC, & Signals and Systems
19.	Prof. P. Muralidhar Ph.D. (NIT Warangal)	VlSI Architectures, Embedded Systems Design, System on Chip (SoC) Design
20.	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		
21.	Prof. P. Prithvi Ph.D. (NIT Warangal)	Digital System Designs, Embedded Systems Designs, Speech Processing
22.	Prof. V. Rama Ph.D. (NIT Warangal)	Basic Electronics Engg., Digital Electronics, Analog Electronics, Biomedical Instrumentation, Biomedical Signal Processing, Quality Reliability of Electronic Systems, Neural Networks and IC Applications,
23.	Prof. K. Sarangam Ph.D. (NIT Warangal)	VLSI Circuit Design low power design novel device
24.	Prof. Kalpana Naidu Ph.D. (IIT Hyderabad)	Wireless Communication, 5G communication, Heterogeneous Communication, Resource allocation
25.	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
26.	Prof. Atul Kumar Nishad Ph.D. (IIT Ropar)	VLSI Interconnects, Microelectronics and VLSI, 2D Materials, VLSI Circuits and Systems
27.	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

28.	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.
29.	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.
30.	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).
31.	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.
32.	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
33.	Prof. Prakash Kodali Ph.D. (IISc Bangalore)	Printed Flexible Electronics, Embedded Systems and Biomedical Electronics
34.	Prof. Chayan Bhar Ph.D. (IIT Kharagpur)	AI for networks; Reinforcement Learning based Network Design; Network Design and Analysis
35.	Prof. Ekta Goel Ph.D. (IIT BHU)	Modeling and Simulation of Advanced MOS Devices
36.	Prof. Amarjit Kumar Ph.D. (IIT Roorkee)	Active and Passive RF microwave devices and THz components, Sensors
37.	Prof. Vasundhara Ph.D. (IIT Bhubaneswar)	Adaptive Signal Processing, Hearing Aid Design, Distributed System Estimation, Active Noise Control
38.	Prof. Shuvam Pawar Ph.D. (IIT Roorkee)	SAW & BAW resonators, Sensors and Actuators, Thin Films Technology and Semiconductor Devices.

Journal Publications:

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2. Ravi Bolimera, Kishore Kumar T, "Development of High Quality Telugu Speech Synthesis system using Deep Elman Recurrent Neural Networks to Assist Children Education" *International Journal of Early Childhood Special Education*, Vol.14 No.1, pp. 3579-3587, 2022,

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6. K Sarangam, Bheema Rao Nistala, "Design of FinFET based High gain Low Power Two Stage OTA for Biomedical Applications" *Scope*, Vol.13, no. 2, 2023.
7. Praveen Kumar Mudidhe, Bheema Rao Nistala, "Circuit Level Analysis of a Dual Material Graded Channel (DMGC) Cylindrical Gate All Around (CGAA) FET at Nanoscale Regime" *ECS Journal of Solid State Science and Technology*, Vol.12, No. 6, 2023.
8. S Bhukya, BR Nistala , “Design optimization of junctionless bottom spacer tapered FinFET: Device to circuit level implementation” *Microelectronics Journal*, vol. 139, pp.105907, 2023
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10. MV Raghunadh, N Bheema Rao, "Design and Implementation of an ultra-compact high performance prefiltered cascode 5 GHz LNA in 90 nm CMOS using a novel double split on chip IPD inductor for 5G Communications" Scope, Vol.13, No. 1, 2023.
11. Sresta Valasa, Venkata Ramakrishna Kotha, Narendar Vadthiya, Sunitha Bhukya, Bheema Rao Nistala, Satish Maheshwaram, "Design and Performance Optimization of Junctionless Bottom Spacer FinFET for Digital/Analog/RF Applications at Sub-5nm Technology Node" *ECS Journal of Solid-State Science and Technology*, Vol. 12, 2023.doi:10.1149/2162-8777/acb175.
12. MV Raghunadh, N Bheema Rao, "High performance Double Split Series Stacked Multilayer on chip Inductor for 5G Applications" *International Journal for Kalpana Engineering Research*, Vol. 2, No.1, 2023.
13. Praveen Kumar Mudidhe, Bheema Rao Nistala, "Analytical modeling of a dual-material graded-channel cylindrical gate-all-around FET to minimize the short channel effects" *Journel of computational Electronics*, Vol. 22, pp.199-208, 2022.
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92. S. Anuradha, Aaditya Prakash Kattekola, Sanjana Dontha Performance analysis of RIS aided NOMA networks in k-μ and α-μ generalized fading channels ICETE-2023 April 28-30, 2023, OU, Hyderabad.
93. Srilatha G, Patri Sreehari Rao, S. Anuradha, Fair- Energy efficiency power allocation for NOMA downlink system ISES 2022, DOI: 10.1109/ISES54909.2022.00119.

Sponsored R&D Projects:

Sl.No.	Investigators	Title of the Project	Funding Agency	Grant Value (INR in lakhs)
1.	T. Kishore Kumar	Smart Assistance to Dyslexia, PD, ASC, ALS people using Artificial Intelligence and IoT-based Augmentative and Alternative Communication	SERB	36.13
2.	T. Kishore Kumar	Development of Artificial Intelligence and IoT based portable knee joint health care monitoring system for rural India	SERB	38.61
3.	T. Kishore Kumar	Development of Novel Video/ Image Compression Algorithms	DRDO	9.8
4.	G. Arun Kumar, P. Sreehari Rao, and L. Anjaneyulu	Design and Development of Miniature High Performance GNSS ultra- Low Noise Amplifier with NavIC Signals	IISU, ISRO Tiruvanathapuram	28.75
5.	L. Anjaneyulu	Lunar Surface characterization and exploring the possibility of Water pockets using Chandrayaan-2 DFSAR and other Datasets	ISRO Tiruvanathapuram	30
6.	P. Sreehari Rao	Advanced CMOS clock recovery circuits for mobile applications	MoE	45
7.	Venkata Mani V	VLC-Based Vehicular	SPARC, MHRD	69

		Communication for enhancing Road Safety in Smart Cities		
8.	Venkata Mani V	Design and Development of High Efficient Switched Reluctance Motor based Solar Photovoltaic (SPV) Water Pumping System	IMPRINT-India, Phase-I, MHRD	79.8
9.	J. Ravi Kumar	Development of IP core for accident prevention system during rainy and hazy weather conditions,	SERB, DST	19.8
10.	J. Ravi Kumar, Maheshwaram Satish,	Improving Logic Building Skills for Adivasi Students	Descretionary Grants, Governor of Telngana	10.8
11.	Ch. V. Rama Rao	Development of Algorithms for Voice-Based Assistive Technologies for Disabled Persons (VAJRA Faculty Scheme)	SERB, DST	10.0
12.	Arun Kumar Gande, Gopi Ram	Study and Simulation of metamaterials to mitigate RF communication blackout at S-band	DRDO, ASL, Hyderabad	9.98
13.	Vadthiya Narendar	Design and Optimization of Novel Negative Capacitance (NC) FET for Low-Power and High-Switching Applications	DST-SERB	32.29 Lakhs
14.	P. Sreehari Rao, Maheshwaram Satish, N. Bheema Rao, G. Arun Kumar, P. Muralidhar, B. Lakshmi	High Precision Interface Circuit for Capacitive based Sensors (HPICCS) for Defence Applications	MeitY	96 Lakhs
15.	Kalpana Naidu, V.V.Mani	An effective approach to the coverage region enhancement with UAVs in 6G Wireless Communication	NMICPS TiHAN Foundation, IIT-Hyderabad	13.62
16.	Prakash Kodali	D-Powerpad: Self Configurable Renewable Powered Autonomous Drone Charging Station with Battery Swapping System	NMICPS TiHAN Foundation, IIT-Hyderabad	17.8
17.	Prakash Kodali	Smart Electronic Handheld Device for Non-Invasive Drug Delivery	GOI-MSME Ideathon	15.0
18.	Prakash Kodali	Screening of Salt Tolerance in Plants using Internet of Things and Machine Learning	GOI-MSME Ideathon	18.0

19.	Prakash Kodali	Flexible and Wearable Triboelectric Nanogenerators Development for Sensing. Energy Harvesting to Drive Implantable Electronic Medical Devices	DST-SERB	35.2 Lakhs
20.	S. Anuradha	Hardware Implementation of UAV based spatial NOMA for 6G networks	DST-SERB	29.49 Lakhs
21.	Chayan Bhar,	5G Use Case Labs	DoT	60.0
22.	Arun Kumar	Design and development of a W-band front-end for Imaging Applications using Silicon Germanium Technology	SERB	37.49

Patents:

S.No	Title	Inventor(s)	Remarks
1	A novel compact closely spaced dual-band bandpass filter with antisymmetric isolating filter response in opposite directions	G.Arun Kumar , Prantik Dutta	Filed
2	A novel and optimal Trapezoidal switching Technique for Harmonic Beam Steering in User Defined Direction in Timed Antenna Arrays	Gopi Ram,	Filed
3	Programmable Electronic Jacquard Machine for complex designs in Handloom Sector	B.K.N.Srinivasa Rao, M. Satish	Filed
4	Frequency domain convolution windowing method for reducing leakage in image processing	G.ARunkumar Plaguna kumar	Filed
5	Time-modulated Antenna array for establishing smart wireless Information and power Transfer for Mobile application	B.Gopi Ram, D.Suneel varma, G.Arun kumar	Filed
6	Time-modulated antenna array for establishing smart wireless Information and power Transfer for Mobile application	B.Gopi Ram, D.Suneel varma, G.Arun kumar	Filed

Short-term Courses/Workshops/Seminars/Symposia/Conferences Organised by the Faculty Members:

S.No	Title	Dates	Scheme	Coordinators
1	Artificial Intelligence for Computer Vision and Image Processing	6th June, 2022 ,18th June, 2022,18th June, 2022	MeitY, Govt. of India	T. Kishore Kumar

2	Applications of AI & ML in Signal Processing and Communications	23rd June, 2022,30th June, 2022,30th June, 2022	E&ICT, NIT Warangal	Md. Farukh Hashmi
3	AI and Machine Learning for Biomedical Signal and Image Analysis	27th June, 2022,6th July, 2022	MeitY, Govt. of India	T. Kishore Kumar,
4	Machine Learning, Artificial Intelligence and its Applications	4th July, 2022,14th July, 2022	E&ICT, NIT Warangal	J. Ravi Kumar
5	Analytical Techniques for Nanomaterials	18th July, 2022,25th July, 2022	E&ICT, NIT Warangal	Arun Kumar Gande
6	EDA Tools for Industry 4.0	18th July, 2022,27th July, 2022	E&ICT, NIT Warangal	Sreehari Rao Patri
7	Artificial Intelligence in IoT	22nd July, 2022,2nd August, 2022	MeitY, Govt. of India	T. Kishore Kumar
8	AI & ML in Next Generation Communication Technologies and Systems	25th July, 2022,4th August, 2022	E&ICT, NITW	D. Vakula
9	Recent Research Trends and Applications of Artificial Intelligence and Machine Learning	10th August, 2022,20th August, 2022	MeitY, Govt. of India	T. Kishore Kumar
10	AI and Machine Learning in Biometric Recognition	16th August, 2022,25th August, 2022	MeitY, Govt. of India	T. Kishore Kumar
11	Applications of Artificial Intelligence & IoT in Engineering	22nd August, 2022,30th August, 2022	MeitY, Govt. of India	T. Kishore Kumar
12	Recent Trends in Advanced Digital Signal Processing	25th August, 2022,30th August, 2022	E&ICT, NITW	V. Rama
13	AI/ ML for Computer Vision and Medical Image Analysis Applications	1st December, 2022,9th December, 2022	E&ICT, NITW	Md. Farukh Hashmi
15	AI/ML for Computer Vision Applications	4th January, 2023,12th January, 2023	E&ICT, NITW	Md. Farukh Hashmi
16	Applications of Artificial Intelligence and Internet of Things	21st January, 2023, 30th January, 2023	MeitY, Govt. of India	T. Kishore Kumar
17	Artificial Intelligence and Machine Learning for Real Time Applications	23rd January, 2023,1st February, 2023	E&ICT, NITW	J. Ravi Kumar
18	Artificial Intelligence for Medical Image Processing	30th January, 2023,8th February, 2023	MeitY, Govt. of India	T. Kishore Kumar
19	New Frontiers of IoT and ML for Smart World	30th January, 2023,9th February, 2023	E&ICT, NITW	Prakash Kodali

20	Real Time Embedded Systems & IoT & Its Applications	1st February, 2023,10th February, 2023	MeitY, Govt. of India	T. Kishore Kumar
21	Artificial Intelligence in Biomedical Signal Processing	6th February, 2023,13th February, 2023	E&ICT, NITW	V. Rama
22	FPGA Based Deep Learning Applications in Signal Processing	6th February, 2023,16th February, 2023	E&ICT, NITW	Maheshwaram Satish
23	Recent Trends in Antenna Engineering and its Applications	13th February, 2023,23rd February, 2023	E&ICT, NITW	Amarjit Kumar
24	Recent Research Trends and Applications of Artificial Intelligence and Machine Learning	20th February, 2023,27th February, 2023	MeitY, Govt. of India	T. Kishore Kumar
25	AI/ML for Computer Vision Applications	13th March, 2023,21st March, 2023	E&ICT, NITW	Md. Farukh Hashmi
26	AI/ ML for Computer Vision and Medical Image Analysis Applications	25th March, 2023,5th April, 2023	E&ICT, NITW	Md. Farukh Hashmi,
27	Emerging Technologies in IoT, AI & ML and Image Processing	27th March, 2023,5th April, 2023	MeitY, Govt. of India	T. Kishore Kumar
28	Artificial Intelligence and its role in Future Communications, Signal Processing and Computing Applications	1st May, 2023,10th May, 2023	E&ICT, NITW	J. Ravi Kumar
29	Recent Research Trends and Applications of Artificial Intelligence and Internet of Things	5th May, 2023,13th May, 2023	MeitY, Govt. of India	T. Kishore Kumar
30	Recent trends and technology development in IoT and AI	8th June, 2023,17th June, 2023	E&ICT, NITW	Prakash Kodali
31	Recent Trends in Signal and Image Processing and Applications	12th June, 2023,21st June, 2023	MeitY, Govt. of India	T. Kishore Kumar

PhD Degree Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)	Month/year
1	Kishor Kisan Ingle	Channel Equalization in Wireless Systems using Metaheuristic Algorithms and Machine Learning Based Approaches	J. Ravi Kumar	11/2022
2	Guthi Srinivas	Investigations on High Gain and Broadband Circularly Polarized Antennas for 5GHz Wi-Fi Applications	D.Vakula	12/2022
3	Sanagavarapu Karthik	Video Compression Algorithms using Machine Learning Approach for	P.Muralidhar	01/2023

		Encoding Time Reduction in HEVC.		
4	Vasimalla Yesudasu	Design and Analysis of High-Performance Surface Plasmon Resonance Based Optical Sensor for Biomedical Applications	Himansu Shekhar Pradhan	01/2023
5	Kanike Sreenivasulu	Implementation of Novel Image Compression techniques using Machine Learning Algorithms on HEVC	Hanmanth Rao T V K	02/2023
6	Mallavarapu Sandhya	esign and Evaluation of Compact, Low SAR and EBG based Fractal Wearable Antennas for WBAN Applications	L.Anjaneyulu.	03/2023
7	Yannam Vasantha Koteswara Rao	Some Investigations on Single and Multi-Channel Blind Source Separation	C B Rama Rao	04/2023
8	Koneru Venkata Sridhar	Development of Novel Speech Enhancement Techniques Under Low SNR Environments	T.Kishore kumar	05/2023
9	LAV Sanhith Rao	Some Investigations on delay Compensation Mechanism in Hardware in Loop Simulation (HILS) of Aerospace Systems	P.Sreehari rao	05/2023
10	K Sunil Kumar	Development of Novel Robust Speech Bandwidth Extension Techniques	T. Kishore kumar.	05/2023
11	Neelam Aruna Kumari	Design and Analysis of Modified GAA Nanosheet FET Based Circuits for High Frequency Applications	P. Prithvi	05/2023
12	Alagesan Bhuvaneswari Ahadit	Multi Feature Fusion based Facial Expression Recognition using Deep Learning Techniques	J. Ravi Kumar	06/2023
13	K Sarangam	Design of FinFET Based Low Power Integrated Circuits for Biomedical Applications	N.Bheemarao	06/2023
14	Banoth Thulasya Naik	Some Investigations on Deep Learning Techniques for accurate Ball/Player Detection. Tracking in Soccer and Predicting Trajectories of Basketball	Mohammad Farukh Hashmi	07/2023
15	Chintakindi Balarammurthy	Design and Development of Embedded Vision Based Object Detectors for Autonomous Driving Application	Mohammad Farukh Hashmi	07/2023
16	Dondapati Suneelvarma	Design of Time-Modulated Linear Antenna Array with Optimal Harmonic Power Radiation for WIPT and DoA Estimation	Gopiram	07/2023

17	R. Srinivasan	An Architecture for On-Board Frequency Domain Analysis of Flight Vehicle Vibration Signals	B.Lakshmi	07/2023
18	Ampavathina Sowjanya	Investigations on Metamaterial and Fractal based Microstrip Filters	D. Vakula	08/2023
19	Kallepelli Sagar	Design and Circuit Performance Analysis of Enclosed Circular Double Gate MOSFETs	Maheshwaram Satish	08/2023
20	P Upender	Investigations on Circularly Polarized Dielectric Resonator Antennas and THz Absorbers	Amarjit Kumar	08/2023
21	Rambabu Kusuma	Design and Analysis of Dual Material Gate Junctionless FinFET for Analog IC Applications	Hanmanth Rao T V K.	08/2023
22	Ravi Bolimera	Investigations on different Deep Learning Architectures for Telugu Language Text-To-Speech Synthesis System	T.Kishore kumar	09/2023
23	Vijaya Kumar Munagala	Design of Intelligent FOPID/PID controllers Using Meta- heuristics and NARXnets.	J. Ravi Kumar	09/2023
24	Prantik Dutta	Some Studies on the Design of Magnetless non-reciprocal Bandpass Filtering Isolators for 5G Applications	Arunkumar Gande	09/2023

Honours and Awards Obtained by Faculty:

S.No.	Faculty Member	Honour/Award	Honoured/ Awarded by	Honoured/ Awarded For	Date/year of Award
1.	P Sreehari Rao	Best Paper Award	NIT Warangal	Presented a paper at the IEEE iSES conference-2022	19th to 21st December 2022
2.	Kalpana Naidu	best paper	Malaviya National Institute of Technology Jaipur	Paper presentation PCCDS 2022	05-07 July, 2022
3.	D Vakula	best paper award	NIT Rourkela	Wireless antenna & Microwave Symposium (WAMS)	05-08 June, 2022
4.	T. Kishore Kumar	Session Chair	IEEE, ICCAE	Session chair in conference	3-5 March, 2023
5.	Ekta Goel	IEEE Senior Member	IEEE		April 2023
6.	Ekta Goel	Outstanding	ARDORCOMM		Feb 2023

		Teaching Excellence Award	MEDIA		
7.	Ekta Goel	Young Women Researcher in Electronics Award	Venus International Women Awards	-	March 2023.

Special Lectures Delivered by the Faculty in Other Institutions:

S. No.	Faculty Member	Topic of Lecture	Institution	Date
1	T. Kishore Kumar	Artificial Intelligence based Real-time Skin Cancer Detection	**ICCAE, A**ustralia	3-5 March, 2023
2	T. Kishore Kumar	Application of Artificial intelligence & Machine Learning in Translational Medicine	BITS Pilani, Dubai	26/04/2023
4	T. Kishore Kumar	AI & IoT and Its Applications	SR University	18/03/2023
5	T. Kishore Kumar	Artificial Intelligence in Healthcare & Emotion Recognition	KITS, Warangal	15/02/2023
6	T. Kishore Kumar	Applications of MIMO in Healthcare	Spoorthy Engineering College, Khammam	05/06/2023
7	T. Kishore Kumar	AI For Healthcare Applications	G H Raisoni Institute of Engineering & Technology	30/01/2023
8	T. Kishore Kumar	Role of AI & IoT	KKR & KSR Institute of Technology & Sciences, Guntur	21/01/2023
9	T. Kishore Kumar	Introduction to Embedded & IoT	G H Raisoni Institute of Engineering & Technology	01/02/2023
10	L. Anjaneyulu	Introduction to Fuzzy logic and applications	STUTI program	17/08/2023
11	L. Anjaneyulu	Innovation and IPRs	IIIT, Trichy	23/08/23

12	G. Arunkumar	Design of Microwave filters	Mahendra College of Engg.	08/11/2022
13	G. Arunkumar	Microwave Low Noise Amplifier: Basics and Design Methodology	SRIT, Produttur	23rd Nov., 2022
14	G. Arunkumar	Reconfigurable planar antenna design and simulation methodology	NIT Warangal and Rajalakshmi Institute of Technology (RIT) Chennai	04/01/2023
15	V Narendar	SemiconIndia: A future perspective	VIT-AP University	05-07-2023

Invited Lectures by External Experts:

S.No	Name	Achievement Details (Conference paper, best paper award, abroad visit)	Date(s)
01	Murali Annavaram, University of Southern California	Machine Learning Systems: From Kernel Computations to Hardware Accelerators	May 2nd to 3rd, 2023

DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

Faculty and Their Activities

S. No.	Name and Qualifications	Major Areas of Specialisation
	Professors	
1.	Prof. K. Madhavi (Head) 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. Raja Vishwanathan Ph.D. (Osmania University)	Bilingualism and bilingual education, Academic writing, critical pedagogy, ideology in language teaching, American literature, British literature, Indian writing in English
	Assistant Professors	
3.	Prof. B. Spoorthi Ph.D (EFLU)	Leveraging Technology for Language Learning, Content and Language Integrated Learning Teacher Education and Reflection, Task Based Language Teaching, Virtual Reality in Education, Virtual Labs for Language Education
4.	Prof. R. Vennela Ph.D. (Univ. of Hyderabad)	Bilingual education, Lexicography, Sociolinguistics

Journal Publications:

1. Kaniphnath Kudale, Hanamant Metkari, B. M. Mukesh Kumar, Madhavi Kesari. "Productivity in the "New-Normal" in Indian Academia: Some Reflections." *IUP Journal of English Studies*. Accepted for publication. SCOPUS.
2. M. Raja Vishwanathan co published a paper titled Mapping Lacanian desire in Marcel Duchamp's 'The Large Glass', with his student Aishwarya Sureshan in Singularities, a UGC-CARE listed journal.
3. Prakash, Jalli Ravi and Spoorthi. B, "Impact of Proficiency in English Language on Engineering Students "Performance in their Curricular Subjects" has been published in March 2023 edition of Literary Voice: A Peer Reviewed Journal of English Studies (ISSN 2277-4521) (ESCI Indexed, Web of Science Journal)
4. R. Vennela & Sunita Mishra (2023) Alternative forms of bilingual education in colonial India – a prologue to the methods era (1811-1920), Language & History, DOI: 10.1080/17597536.2022.2147686.

Conference publications

1. Beulah, A and M. Raja Vishwanathan presented paper titled Enabling Critical Thinking in the EFL Classroom: A Soft Skills approach to Teach Oral Skills, which was published as a chapter in the proceedings of The English language symposium: current and emerging trends in English language teaching, Sultanate of Oman.

2. Prof. K. Madhavi presented a paper Exploring the Shifting Borderlines of Art and Activism in Meena Kandasamy's Poems in a Three-Day Virtual International Conference on Gender Perspectives and Representations: Breaking Barriers and Building Bridges, AP, 20.06.2023-22.06.2023.
3. Prof. K. Madhavi presented a paper 'Challenges and Inhibitions confronted by Women at Workplace -Cracking the Walls' in the Two-day International Conference WIN (Women Inclusive Network) – 2023, Warangal on 17th March, and 18th March 2023.
4. Prof. K. Madhavi presented a paper 'Teacher Identities: Contexts which Shape and Reshape New Teachers' Perspectives: A Reflective Study' on 15th October, 2022 (Online)in the Two -Day International Conference on 'Advances in English Language Studies' (ICAELS 2022), Udaipura, Jaipur, 14-15 October 2022.
5. Prof. K. Madhavi presented a paper 'From Teachers to Mentors: The Enhanced role of Teachers in Education 5.0 and the Skills Required' on 14th October, 2022, in the Two -day International Conference on Education 5.0- Role of Institution, Industry and Society (ERIIS - 2022), Warangal on 14-15 October 2022.
6. Dr M Raja Vishwanathan co-presented a paper titled The (un)spoken facts: On-line space as a medium for developing undergraduate students', October 20222 at ERIIS International Conference, Warangal.
7. Dr M Raja Vishwanathan co-presented a paper titled A Manifestation Of Lacanian Desire In Marcel Duchamp's "The Large Glass" with his research scholar Aiswarya Sureshan in October 20222 at ERIIS International Conference, Warangal.
8. Dr M Raja Vishwanathan co-presented (online) a paper titled: Enabling Critical Thinking in the EFL Classroom: A Soft Skills Approach to Teach Oral Skills with Dr Beulah A at an international conference titled The English language symposium : current and emerging trends in English language teaching, Sultanate of Oman.
9. Dr M Raja Vishwanathan presented a paper titled - Relevance of English to Students of Engineering at a National conference on the Relevance of English, Mathematics & Management Sciences to technical courses organized by MGIT, Gandipet.
10. Prof. Spoorthi B. presented a paper titled Leveraging Artificial for Developing EMPLOYABILITY Skills of Engineering students', at 'First International Conference on Impending Inquisitions in Humanities And Sciences (Iciihs-2022), 28-30 December, 2022, Hyderabad.
11. Prof. Spoorthi B. presented a paper titled Assessing Engineering Students' Communication and Employability Skills using AI enabled Virtual Lab, at the 'International Conference on Advances in English Language Studies-2022, 14th-15th October, 2022 at UEM Jaipur.
12. Prof. R. Vennela, Conference paper on "Preparing a school dictionary resource for low resource contexts: steps and challenges" on 14th July 2022 at the XX EURALEX Conference, Leibniz-Institute for the German Language (IDS), Mannheim, Germany

Sponsored R&D Projects:

Sl.No.	Investigators	Title of the Project	Funding Agency	Grant Value (INR in lakhs)
1	K. Madhavi	Physical and Psychological Issues in Women: Management of Risks and Challenges Faced	National Commission for	1.56

		Before, During, and Postpartum Period	Women, New Delhi	
2	K. Madhavi	Winning Strategies for Women Professionals in Higher Education: Reflections Towards Capacity Building	National Commission for Women, New Delhi	2.49
3	Spoorthi B.	Building an Artificially Intelligent Virtual Laboratory to develop Employability Skills of engineering students 'AIVLES'	ICSSR	Not Specified
4	R. Vennela	Textbooks in Historical times: Reviewing the Status of Historical Explorations	Hornby Trust, United Kingdom	10
5	R. Vennela	Developing a Pilot English-Telugu bilingual pedagogic picture dictionary resource and teacher resource book for low resource ESL contexts	Hornby Trust, United Kingdom	5.16

Book Chapters:

1. Prof. K. Madhavi and Kavya R. published a book chapter "Blended Learning: A Means of Adapting to the New Normal" in the book titled Resilience and Transformation for Global Restructuring published by ETHICS INTERNATIONAL PRESS, UK, in August 2022 ISBN: 978-1-871891-60-7.
2. Prof. M Raja Vishwanathan published a book chapter titled Reflective teaching, teacher education and professional development in Continuing Professional Development of Teachers: Perspectives and Practices from India published by Springer
3. Prof. M Raja Vishwanathan published a chapter titled Making daffodils bloom for everyone: the flowering of critical pedagogy in the ESL Classroom (2022). In Ruchi Kaushik and Amrit L Khanna (Eds.) Critical Issues in ELT.Aakar Books International.

Short-term Courses/Workshops/Seminars/Symposia/Conferences Organised by the Faculty Members:

S. No	Title	Dates	Scheme	Coordinators
1	The Organising Secretaries for the Two-day International Conference WIN (Women Inclusive Network) – 2023 organized by the National Institute of Technology Warangal	17-18, March 2023	WIN (Women Inclusive Network)	K.Madhavi and B.Spoorthi
2	the Academic Event HALE–2022 (Humanities Academic & Literary Enclave)	8-10, December, 2022	HALE–2022	K.Madhavi

3	One -Month Certificate Course in Communication Skills of 40 hours duration	1st – 30th, November, 2022		K.Madhavi
4	Chair for the Three- week short term training programme on 'Language and Communication Strategies for Online Teaching'	15th, June to 05th July,2022		K.Madhavi
5	Two- day Dissemination Event of the Exploratory Action Research Project, sponsored by A S. Hornby Educational Trust, UK, organized by English Language Teachers' Association (ELTA), Telangana in association	19th and 20th June,2022	English Language Teachers' Association ELTA	K.Madhavi
6	Five-day FDP titled 'New Trends and Contemporary Approaches in English Language Teaching and Learning", organized by Sreenidhi College of Engineering and Technology, Ghatkesar in collaboration with CCE, NIT Warangal	05th -12th, December, 2022	Sreenidhi College of Engineering and Technology, Ghatkesar	M.Raja Vishwanthan
7	English Language Fluency Workshop for Students of Scheduled Tribe/Adivasi Schools of Telangana, Project funded by Governor of Telangana	June-2023	GoI	Spoorthi.B
8	REWIRE- Real-time, Experiential Weekend training program for Interview Readiness and Employability		REWIRE	Spoorthi.B

Department Outreach Activities:

Humanities & Social Sciences Open House & Networking Event (HONE) was organised on 10th December 2022 for the career Progression and Professional Development of English Teachers. 3 invited talks and cultural programmes were a part of this event. English Teachers from various schools and scholars of H&SS actively participated in exchanging their ideas.

Special Lectures Delivered by the Faculty in Other Institutions:

Sl.No.	Faculty Member	Topic of Lecture	Institution	Date
1	K. Madhavi	Classroom Strategies An Interdisciplinary Perspective to the Emerging Research Areas in ELT and Literature	Avinash Group of Institutions, Hyderabad	24th August 2023
2	K. Madhavi	Digital Literacy and Language Skills	Bharat Institute of Engineering and Technology, Ibrahimpatnam, R.R District	21-27 June, 2023
3	K. Madhavi	Initiating research, writing, publishing research papers in appropriate journals	Noida Institute of Engineering and Technology, Noida	3rd April 2023
4	K. Madhavi	Capacity Building Initiatives and Approaches	Alagappa University	06.03.2023
5	K. Madhavi	Design thinking for Leading and Learning of Digital Natives	Alagappa University, Karaikudi, Tamilnadu	9th December 2022
6	K. Madhavi	Learning English Through New Technologies - Smartphones and Mobile Applications	JMJ College for Women (A): Tenali	08-11-2022
7	K. Madhavi	Why and How Language tasks help to improve LSRW Skills for students	Vardhaman College of Engineering, Hyderabad	28-09-2022
8	K. Madhavi	Action Research: Current Research Trends in ELT & NEP- 2020 and Its Impact on Designing New Courses	JNTUH	20-07-2022
9	K. Madhavi	Benefits of Reading	JNTUH	16th July, 2022
10	M Raja Vishwanathan	Action research and its significance	MGIT, Gandipet	June 202
11	M Raja Vishwanathan	Leadership and Learning	Siddhartha Engineering College, Vijayawada	March 2023
12	M Raja Vishwanathan	Emotional Intelligence for a Meaningful Life and Career	Siddhartha Engineering College, Vijayawada	April 2023
13	M Raja Vishwanathan	Writing Annotated Bibliography	University of Hyderabad	March 2023
14	M Raja Vishwanathan	Writing the Methods Section in a Research Report	University of Hyderabad	March 2023
15	M Raja Vishwanathan	Making a Case for incorporating Social Emotional	Presidency University	December 2022

		learning in the Curriculum	Bangalore	
16	M Raja Vishwanathan	Review of literature in the digital age	Gayatri Vidya Parishad College of Engineering, Vishakapatnam.	November 2022
17	M Raja Vishwanathan	The necessity of including Social Emotional Learning in the Curriculum	SDNB Vaishnav College for Women	September 2022
18	M Raja Vishwanathan	Enabling teaching learning through Multiple Intelligence framework	SDNB Vaishnav College for Women, Chennai	September 2022
19	Spoorthi B	Leveraging AI for Academic Research	International Research Academy of Science and Arts, IRASA, Siberia	28 June 2023
20	Spoorthi B	Form Comprehension to Comprehensibility	Hyderabad Institute of Technology and Management (HITAM), Hyderabad	26th June 2023
21	Spoorthi B	Harnessing the Power of AI	Mendipathar College, Meghalaya	May 2023
22	Spoorthi B	Super Skills: To Go from Good to Great	KLH, Hyderabad	February 2023
23	Spoorthi B	Formulation of Research Hypothesis	SPMR College of Commerce, Jammu and Kashmir	February 2023
24	Spoorthi B	LCCD: The Four Steps Classroom Teaching Method	Sundarbai Sasun Jain College, Chennai	January 2023
25	R.Vennela	Research Methodology	University of Hyderabad, Hyderabad	25th and 26th August 2022

DEPARTMENT OF MATHEMATICS

Faculty and Their Activities:

Sl. No.	Name and Qualifications	Areas of Major Specialization
Professor (HAG)		
1.	Prof. Ramana Murthy J V 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)	Nonlinear dynamics, Finite difference methods, Finite volume methods, Computational Fluid Dynamics, Instability and vortex analysis, Heat and Mass Transfer problems.
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 of Analysis, Computational Methods.
12.	Prof. D. Bhargavi	Fluid Dynamics, Flow through Porous Medium,

	Ph.D. (IIT Kharagpur)	Numerical Heat Transfer
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, Nanofluidics, 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

Journal Publications:

1. Aparna, Podila, Podila Padmaja, Nalimela Pothanna, Josyula Venkata Ramana Murthy, Uniform Flow of Viscous Fluid Past a Porous Sphere Saturated with Micro Polar Fluid; Biointerface Research in Applied Chemistry, vol.13, pp.69, 2023.
2. Brijesh Kumar, Srinivas Jangili, J V Ramana Murthy, Theoretical Investigation of Electromagneto-hydrodynamic Flow of a Couple Stress Fluid through a Circular Microchannel, *Pramana-Journal of Physics*. (Accepted). DOI: 10.1007/s12043-023-02645-7
3. Thota Siva, Srinivas Jangili, Bidyasagar Kumbhakar, Entropy generation on EMHD transport of couple stress fluid with slip-dependent zeta potential under electrokinetic effects, *International Journal of Thermal Sciences*, vol. 191 Article ID: 108339, 2023.
4. Thota Siva, Srinivas Jangili, B. Kumbhakar, A theoretical approach to entropy optimization of EMHD flow of non-Newtonian fluid in a microchannel, *Pramana-Journal of Physics*, vol. 96 Article ID: 168, 2023.
5. Sourav Bera, Suryakant Prasad, Y. Sreenivasa Rao: Verifiable and Boolean Keyword Searchable Attribute-Based Signcryption for Electronic Medical Record Storage and Retrieval in Cloud Computing Environment. *The Journal of Supercomputing*, vol. 79, pp. 20324–20382, 2023.
6. Sourav Bera, Suryakant Prasad, Y. Sreenivasa Rao, Ashok Kumar Das, Youngho Park, Designing attribute-based verifiable data storage and retrieval scheme in cloud computing environment. *Journal of Information Security and Applications*, vol. 75, Article ID: 103482, 2023.

7. Saurabh Rana, Mohammad S. Obaidat, Dheerendra Mishra, Ankita Mishra, Y. Sreenivasa Rao, Efficient design of an authenticated key agreement protocol for dew-assisted IoT systems, *The Journal of Supercomputing*, vol. 78, pp.3696-3714, 2022.
8. T. Sadhu, S. Chowdhury, S. Mondal, J. Roy, J. Chakrabarty and S. K. Lahiri, A comparative study of metaheuristics algorithms based on their performance of complex benchmark problems, *Decision Making: Applications in Management and Engineering*, vol.6, no.1, pp.341-364, 2023.
9. T. Sadhu, S. K. Lahiri, J. Roy, A. Bhattacharjee and J. Chakrabarty, Optimization of frying process for maintaining nutritional quality to satisfy consumers' sensory attributes: A novel application of multi-criteria decision-making approach, *Journal of Multi-Criteria Decision Analysis*, vol.30, no.1-2, pp.44-61, 2022.
10. S.P. Suresha., G. Janardhana Reddy., Mahesh Kumar., H. P. Rani, O. Anwar Bég, Numerical study of transient convective turbulent boundary layer flow along a vertical plate: analysis of kinetic energy and its dissipation rate, *Waves in Random and Complex Media*, 2023. https://doi.org/10.1080/17455030.2023.2220821
11. Tabinda Nahid., H.P. Rani, Mittag-Leffler based Bessel and Tricomi Functions via Umbral Approach, *Reports on Mathematical Physics*, vol. 92, pp.1-18, 2023.
12. Amgoth Ashok, H. P. Rani., K.V. Jayakumar, Exploring LULC changes in Pakhal Lake area, Telangana, India using QGIS MOLUSCE plugin, *Spatial Information Research*, 2023. https://doi.org/10.1007/s41324-023-00509-1
13. Shilpa B., Leela V., Hari Ponnamma Rani, Stability analysis of MHD radiative mixed convective flow in vertical cylindrical annulus: Thermal nonequilibrium approach, *Heat Transfer*, vol.52, pp.707-733, 2023.
14. Bhargavi, D., Gupta, N., Makinde, O. D., A numerical study of axial conduction in a fluid-saturated porous-filled duct under a local thermal non-equilibrium model", *Special Topics and Reviews in Porous Media*, vol.14, pp.73-89, 2023.
15. Gupta, N., Bhargavi, D., Impact of magnetic field on heat transfer with viscous dissipation at the conduction limit in a channel with a centered porous layer: constant wall temperature, *Multidisciplinary Science Journal*, 2023.
16. Rath, S., Dutta, D., A hybrid swarm optimization with trapezoidal and pentagonal fuzzy numbers using benchmark functions. *International Journal of Information Technology*, vol. 15, pp.2747–2758, 2023.
17. Nandal, R., Siddheshwar, P. G., Neela, D., Study of Influence of Combustion on Darcy–Bénard Convection with Inherent Local Thermal Non-equilibrium Between Phases. *Transport in Porous Media*, vol. 146, pp.741-769, 2023.
18. Deepika, N., Narayana, P. A. L., Hill, A. A., The Nonlinear Stability Analysis of Double-Diffusive Convection with Viscous Dissipation Effect. *Transport in Porous Media*, vol.150, pp.215-227, 2023.
19. M. Varunkumar and P. Muthu, Mathematical model of fluid flow in a double constricted tapered tube with permeable boundary, International Journal of Nonlinear Sciences and Numerical Simulation, vol.24, pp.2023-2034, 2023.
20. P. Muthu, Bikash Modak, Study of A Delayed SIVA Within-Host Model of Dengue Virus Transmission, *Communication in Biomathematical Sciences*, vol. 5, pp.101-120, 2023.

21. M. Varunkumar, P. Muthu, S. Srinivas, Fluid flow and solute transfer in linearly converging/diverging tubes with permeable boundaries, *Journal of Applied and Computational Mechanics*, vol: 9, pp.900-914, 2023.
22. P. Muthu and Bikash Modak, Within-host models of dengue virus transmission with immune response, *Computational and Mathematical Biophysics*, vol.11, pp.20220150, 2023.
23. P. Muthu, Bikash Modak, Stochastic SIV in-host model of dengue virus transmission", *International Journal of Dynamics and Control*, 2023. https://doi.org/10.1007/s40435-023-01191-9
24. Anomitra Chakraborty, Pranitha Janapatla, Scaling group analysis of a magnetohydrodynamic nanofluid flow with double dispersion and Dufour effects on a vertical wedge, *Numerical Heat Transfer, Part B: Fundamentals*, 2023. https://doi.org/10.1080/10407790.2023.2200984
25. P. Janapatla, A. Chakraborty, Mixed Convection Nanofluid Flow using Lie Group Scaling with the Impact of MHD, Radiation, Thermophoresis and Brownian motion over a vertical wedge," *J. Adv. Res. Fluid Mech. Therm. Sci.*, vol. 101, pp. 85–98, 2023.
26. Om Prakash Meena, Pranitha Janapatla, D. Srinivasacharya, Magnetic and Joule heating effects on mixed convection flow across a vertical cone", *Computational Thermal Sciences - An International Journal*, 2023. https://doi.org/10.1615/ComputThermalScien .2023037857

Conference Publications:

1. Naresh Reddimalla, JV Ramana Murthy, V Radha Krishna Murthy, **Srinivas Jangili**, Effect of Magnetic Field on Unsteady Flow of Dusty Fluid Due to Constant Pressure Gradient Through a Circular Cylinder: An Analytical Treatment, Recent Advances in Applied Mathematics and Applications to the Dynamics of Fluid Flows, pp.195-202, 2023.
2. Rani H.P., Naresh K, MHD Flow Past Semi-Infinite Inclined Vertical Cylinder Under the Influence of Inclined Magnetic Field, Innovative Trends in Hydrological and Environmental Systems, Proceedings of ITHES, 2022.
3. Dutta, D., Rath, S., Hybrid Particle Swarm Optimization for a Feature Selection Problem with Stability Analysis, Intelligent Computing & Optimization., vol 569, pp 991-1004, 2023.
4. Gupta, N., Bhargavi, D., Impact of magnetic field on heat transfer in a parallel plate channel with a centered porous layer: Darcy-Brinkman model, AIP Conference Proceedings, 2768, pp. 020014, 2023.
5. Rani H.P., Naresh K., Rameshwar Y., Starchenko S.V, Heat Transfer Analysis of Tangentially Rotating Fluid Flow Past a Semi-infinite Vertical Cylinder Kept in Uniform Horizontal Magnetic Field Using Non-linear Regression and Back-Propagation Neural Network. In: Kosterov A., Bobrov N., Gordeev E., Kulakov E., Lyskova E., Mironova I. (eds) Problems of Geocosmos–2020. Springer Proceedings in Earth and Environmental Sciences, 2022.
6. Rani H.P., Narayana V., Rameshwar Y., Starchenko S.V., Numerical Flow Analysis in Γ Shaped Enclosure: Energy Streamlines and Field Synergy. In: Kosterov A., Bobrov N., Gordeev E., Kulakov E., Lyskova E., Mironova I. (eds) Problems of Geocosmos–2020. Springer Proceedings in Earth and Environmental Sciences, 2022.
7. P. Muthu and Bikash Modak, Model of in-vivo dengue virus transmission with immune response", International Conference on Advances in Biomathematics (ICABM-2022), Lucknow Campus, U.P., under the aegis of Indian Society of Mathematical Modelling & Computer Simulation (ISMMACS), 21-23, July 2022.

Short-Term Courses/Workshops/Seminars/Symposia/Conferences Organised by the Faculty Members:

Sl. No	Title	Dates	Scheme	Coordinators
1.	Convection Instabilities and Natural Dynamos - Hydrodynamic Stability and Dynamo Theory Revisited - Prof. Brestensky, Department of Maths, Physics and Informatics (FMPHI), Comenius University, Bratislava, Slovakia.	9-19, Jan 2023 (10 days)	GIAN	Prof. H.P. Rani
2.	Magnetohydrodynamics in the light of Astrophysical Dynamos' Analytic, Asymptotic and Numeric Applications - Prof Sergey Vladimirovich STARCHENKO, Russia.	19-29, Sep 2022 (10 days)	GIAN	Prof. H.P. Rani

PhD Degree Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)	Month/year
1.	Bhanoth Rajender	Effect of variable fluid properties on the flow of viscous fluid past a vertical and rotating cone	D. Srinivasacharya	December 2022

Special Lectures Delivered by the Faculty in Other Institutions:

S.No.	Faculty Member	Topic of Lecture	Institution	Date
1	Srinivas Jangili	Finite Differences and Matrices	Department of Mathematics and Statistics, Redeemer University, Nigeria	November 7, 2023
2	Y. Sreenivasa Rao	Bilinear pairing and identity-based encryption	ATAL sponsored FDP on Foundations of Cryptography and Blockchain, NIT Calicut	December 27, 2022
3	Y. Sreenivasa Rao	Applications of Modular Arithmetic and Elliptic Curves	Computational Number Theory and Mathematical Analysis Workshop, NIT Warangal	December 23, 2022
4	Y. Sreenivasa Rao	Data Security Protocols	Information Security & Cryptography Workshop, VNIT Nagpur	December 6, 2022
5	Y. Sreenivasa Rao	Mathematical tools in data security	International Multidisciplinary Conference on Emerging	November 22, 2022

			Technologies, Loyola Academy	
6	H.P. Rani	Exploration of vortex dynamics for transitional flows	DST Sponsored International Conference on Mathematical Modelling, Bharathiar University	January 27-28, 2023
7	H.P. Rani	Optimal Response using Response Surface method	International Multidisciplinary Conference on Emerging Trends, CCE NITW and Loyala Academy	November 21-25, 2022
8	K.N.S. Kasi Viswanadham	Invited Speaker	SVNIT Surat	September 6-10, 2022
9	K.N.S. Kasi Viswanadham	Numerical Solution of some two-point boundary problems with cubic B-splines	SVNIT Surat	September 29 - October 3, 2022
10	K.N.S. Kasi Viswanadham	Optimization in Data Science	Sreenidhi Institute of Science and Technology, Hyderabad	November 7-11, 2022
11	K.N.S. Kasi Viswanadham	Numerical Solution of Higher Boundary Value Problems by Galerkin method with B-Splines	SVNIT Surat	February 5-6, 2023
12	K.N.S. Kasi Viswanadham	Numerical Solution of Higher Boundary Value Problems by Galerkin and Petrov-Galerkin method with B-Splines	Acharya Nagarjuna University, Guntur	March 17-18, 2023
13	J.V. Ramana Murthy	Relaxation method - An introduction	Srinidhi Engineering College	October 17, 2022
14	J.V.Ramana Murthy	Statistical learning with R	Workshop at Srinidhi Engineering College	November 7, 2022
15	J.V.Ramana Murthy	Wavelets for fractional Differential equations	Woxsen University, Hyderabad	June 25, 2023
16	Deepika Neela	The onset of convection in a porous layer with vertical through flow and uniform internal heat source	FDP on Recent Advances in Computational Fluid Dynamics, VIT Chennai	January 23-25, 2023

17	Deepika Neela	The onset of convection in a porous layer with vertical throughflow and uniform internal heat source	Online Seminar on Fluid Flow and Convection in Porous Media, VIT Chennai	February 2, 2023
18	P. Muthu	Modeling and Simulation of Physiological Fluid Flows	National Conference on Differential Equations-2023, IIT Patna	March 17-19, 2023
19	P. Muthu	Mathematical Epidemiology	FDP on Applications of Mathematics in Applied Sciences and Engineering, GMR Institute of Technology, Rajam, A.P	January 30 - February 3, 2023
20	P. Muthu	Academic Integrity and Research Quality	National Workshop on Academic Integrity and Research Quality, Sri Sarada College for Women, Tirunelveli, T.N.	March 6, 2023
21	P. Muthu	Applications of Mathematics in Science	National Conference on Recent Developments in Mathematical Sciences, Sri Sarada College for Women, Tirunelveli, T.N.	March 24, 2023
22	P. Muthu	Mathematical model of fluid flow and solute transfer in glomerular capillaries	CIJK Conference on Mathematical and Theoretical Biology, Pusan National University, Busan, Republic of Korea	June 27 - July 1, 2023
23	Pranitha J	Shooting method to solve Boundary value problems	FDP on Recent Advances in Computational Fluid Dynamics, VIT Chennai	January 23-25, 2023

Student Awards:

Sl.No	Name	Achievement Details (Conference paper, best paper award, abroad visit)	Date(s)
1.	**Nitish Gupta**	An Analytical Study of the Impact of an Inclined Magnetic Field on Couette Flow with Jeffrey Fluid under Local Thermal Non-Equilibrium (LTNE) and Viscous Dissipation", paper presented at the "International Conference on Advancements in Materials, Manufacturing, and Automation (AMMA-2023)", organized by Amrita Vishwa Vidyapeetham, Tamil Nadu, India. Selected for a **Best Paper Award.**	April 7-8, 2023

DEPARTMENT OF MECHANICAL ENGINEERING

Faculty and Their Activities:

Sl. No.	Name and Qualifications	Major Areas of Specialisation
	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. Neelakanteswara Rao A, Ph.D. (IIT Kharagpur)	Operations Management, Supply Chain Management, Theory of Constraints, Quality Engineering and Management
11.	Prof. V. Suresh Babu (Head) Ph. D. (IIT Delhi)	Machine Dynamics, Analysis of Mechanism, Composite Material, Functional Graded Materials, Condition Monitoring and Fault Diagnosis
12.	Prof. K.V. Sai Srinadh Ph.D (IIT BHU)	Mechanical behavior of materials, Manufacturing process
13.	Prof. R. Narasimha Rao Ph.D. (MANIT Bhopal)	Tribology, Kinematics & Dynamics, Machine Design, Vibrations, FEM, Advanced Composites
14.	Prof. Adepu Kumar Ph. D. (Osmania University Hyderabad)	Friction stir welding/Processing, Additive Manufacturing, Electrical Discharge Machining of Titanium and super alloys , Fabrication and characterisation of Micro and Nano composites.
15.	Prof. A. Veeresh Babu Ph.D. (NIT Warangal)	IC Engines, Alternate Fuels, Emissions control, Fuel cells, Refrigeration and Air-conditioning
16.	Prof. Y. Ravi Kumar Ph.D. (NIT Warangal)	Additive Manufacturing; 3D Printing and its Medical Applications

17.	Prof. M. Joseph Davidson Ph.D. (NIT Warangal)	Metal Forming, CAD/CAM, Wire Arc Additive Manufacturing
18.	Prof. P. Subash Chandra Bose Ph.D. (NIT Warangal)	1. Machining of high temperature and super alloys2. CNC technologies3. Optimization techniques4. Fabrication and machining of ceramic composites5. Additive manufacturing 6. Laser Assisted Machining of MMC, Ceramics Composite, Super Alloys. 7. Characterization of composites
19.	Prof. V. Vasu PDF (PUM, Italy)	Nano lubricants, Nanocomposites, Nano tribology , Robotics ,Mechatronics & IIoT, Smart Manufacturing, Predictive Maintenance of Machine Tools (RUL)
20.	Prof. G. Naga Srinivasulu Ph.D (Andhra University)	PEM Fuel Cells; I.C.Engines; Heat Transfer and Turbo machines
21.	Prof. P. Vamsi Krishna PhD (Andhra University)	Solid lubricants in machining process, Nano cutting fluids, Vibration Assisted Machining, Modeling and Simulation of Manufacturing Processes, Composite Materials
22.	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
23.	Prof. V. Rajesh Khana Raju Ph.D (IIT Kharagpur)	Fluid Dynamics; Heat Transfer; CFD; Combustion; Microfluidics
24.	Prof. Srikanth Korla PhD (Florida International University)	Structural Health Monitoring, Vibration Analysis and Energy Harvesting, Fiber Metal Laminates, Product Design
25.	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
26.	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
27.	Prof. Beera Satish Ben Ph.D (Andhra University)	Structural Health Monitoring, FRP Composites, Self-healing polymer composites, and Adhesive Bonding
28.	Prof. Chandra Mohan, V.P. Ph. D (IIT Delhi)	(i) Solar drying (ii) Solar Updraft Tower (iii) Computational Fluid Dynamics (iv) Convection and conduction heat transfer (v) Drying and Simultaneous solution of heat and mass transfer (vi) Renewable Energy Sources
Associate Professors		
29.	Sri. G.R.K. Gupta M.E. (IISc Bangalore)	CFD, Turbomachines, Jet propulsion
30.	Prof. T. Sadasiva Rao Ph.D (NIT Warangal)	Manufacturing Technology, Foundry Technology
31.	Prof. Syed Ismail Ph.D (IIT Kharagpur)	Tribology; Surface Texturing; Lubrication; Nano-lubricant; Surface Coatings; Composites; Laser Ablation
32.	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
33.	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		
34.	Prof. Gujjala Raghavendra Ph.D (NIT Rourkela)	Composites, Nanomaterials, Tribology, Polymer, FGM
35.	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
36.	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
37.	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
38.	Prof. Chilukoti Hari Krishna Ph.D (Tohoku University, Japan)	Nanoscale heat transfer, Mass transfer, Interfacial phenomenon, 2D materials, Evaporation, Molecular dynamics, Phase change materials
39.	Prof. Anant kumar Rai Ph.D. (IIT Roorkee)	Fluid mechanics, Hydraulic turbines, Turbomachinery, Hydropower, Renewable Energy, Material wear testing, Sediment Transport
40.	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
41.	Prof. Manjaiah M Ph. D. (NIT Surathkal)	Metal Additive Manufacturing; Advanced Manufacturing processes ; Post processing of AM parts; Shape Memory Alloys
42.	Prof. Gaurav Kumar Sharma Ph.D. (IISc Bangalore)	Computer Aided Design, Product Design, 3D Printing, Digital Manufacturing
43.	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
44.	Prof. Gangadharudu Talla Ph.D. (NIT Rourkela)	Modern machining processes, Hybrid machining, Modelling and optimization
45.	Prof. Thamarai Selvan Ph.D. (IIT Bombay)	Computational Solid Mechanics, Contact Mechanics, FEM, FGM, Layer Substrate Systems
46.	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
47.	Prof. Chinige Sampath Kumar Ph.D. (IIT Madras)	High Heat Flux Cooling Applications; Jet Impingement Cooling; Porous Media; Lattice Boltzmann Method
48.	Prof. Srinagalakshmi Nammi Ph.D. (IIT Madras)	Laser Machining, Texturing, Advanced Micro Machining, Optical Sensing, Mechatronics
49.	Prof. P. Ramesh babu	Machine Design Experimental Aerodynamics Underwater

	Ph.D. (IIT Guwahati)	Force Measurement Vibration Analysis of Systems Bio-Medical Application of Shock Waves

Journal Publications:

1. Vivek Praveen, Chandramohan V.P., Numerical study on optimization of fillet size on the chimney base of solar updraft tower plant for enhanced performance, *Thermal Science and Engineering Progress*, Vol. 34, pp.101400, 2022.
2. Shivam Prajapati, Namith Naik, Chandramohan V.P., Numerical solution of solar air heater with triangular corrugations for indirect solar dryer: Influence of pitch and an optimized pitch of corrugation for enhanced performance, *Solar Energy*, Vol. 243, pp.1–12, 2022.
3. Pritam Das, Chandramohan VP, A critical review on solar chimney power plant technology: influence of environment and geometrical parameters, barriers for commercialization, opportunities, and carbon emission mitigation, Environmental Science and Pollution Research, 2022.https://doi.org/10.1007/s11356-022-22623-7
4. Mulatu C. Gilago, Vishnuvardhan Reddy Mugi, Chandramohan V.P., Investigation of exergy-energy and environ-economic performance parameters of active indirect solar dryer for pineapple drying without and with energy storage unit, *Sustainable Energy Technologies and Assessments*, Vol.53 pp.102701, 2022.
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Conference Publications:

1. G. Chittibabu, Ch. Sri Chaitanya, Babar Pasha Mahammod, Manoj Gupta, Syed Ismail, and R. Narasimha Rao, Tribological Behaviour of Titanium Carbide Reinforced Aluminium Composite Materials. International Conference on Smart Materials & Structures (ICSMS-2022), 15-16th February, 2022-VVIT, Nambur.
2. Ch. Sri Chaitanya, G. Chittibabu, Babar Pasha Mahammod, T. Bharath Kumar, A. Charan Reddy, C. Pranaya Joshi, and R. Narasimha Rao, Compression Deformation Models of Cenosphere Reinforced Polymer Syntactic Foams. International Conference on Smart Materials & Structures (ICSMS-2022), 15-16th February, 2022-VVIT, Nambur.
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4. Shrivastava, N., and Rai, A. K. (2022) "Effects of Pelton turbine needle eccentricity on jet quality". International Conference on Hydro and Renewable Energy- Net Zero Carbon Energy Systems 17-18 October 2022, Roorkee.
5. G. Chittibabu, R.Narasimha Rao, Syed Ismail, Mahammod Babar Pasha, Ch.Sri ChaitanyaAnalysis of Erosive Wear of AA 8011-TiC through Air Jet Erosion Tester. International Conference on Education 5.0- Role of Institution, Industry and Society (ERIIS-2022), October 14 -15 2022, Warangal.
6. G.Chittibabu, Pranayajoshi Chandole, Mahammod Babar Pasha, R.Narasimha Rao, Ch.Sri Chaitanya, Friction and Wear Behaviour of Epoxy/Mg-TiO2-based Polymer Matrix Composites. International Conference on Education 5.0- Role of Institution, Industry and Society (ERIIS-2022), October 14 -15 2022, Warangal.
7. Babar Pasha Mahammod, Chittibabu Golla, R. Narasimha Rao and Syed Ismail, Damping Capacity of Mg/Si3N4 Nanocomposites Fabricated by Ultrasonic-Assisted Stir Casting. IPDIMS 2022 (International Conference on Innovative Product Design and Intelligent Manufacturing Systems): 'IPDIMS' (25-26 November 2022), Rourkela.
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11. S. Shekher, A. SaiSreeharsha, and V.P. Chandramohan Solar Air Collector with Right-angle Triangle Corrugations for an Indirect Type Solar Dryer for Enhancement in Performance.

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13. Shrivastava, N., and Rai, A. K. Effect of hardened turbine steel on erosion of a Pelton injector 2nd International Conference on Energy Resources & Technologies for Sustainable Development (ICERTSD), April 27-28, 2023 at IIEST Shibpur, India.
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22. Srinivasa Raghavan, K Vineetha Reddy, K Ajay Kumar, Sangeet Basu, A Stallone Raj, S Srinivasa Rao* and V R K Raju, Numerical investigation of the performance characteristics in a radial disc micro-combustor for various geometrical and operating conditions, 5th International Conference on

Energy, Power and Environment, ICEPE2023, “Towards Flexible Green Energy Technologies” June 15-17, 2023, Meghalaya.

Sponsored R&D Projects:

Sl.No.	Investigators	Title of the Project	Funding Agency	Grant Value (INR in lakhs)
1.	R Narasimha Rao and Syed Ismail	Insight Development on Tribological Response of Hybrid Aluminum Based Nanocomposites	MHRD, GoI SPARC	40.52
2.	Adepu Kumar, Mahesh and Kishore Babu	Investigation of interfacial interaction and grain structure development in friction stir welds for dissimilar joining of high strength aluminum to titanium alloys	India-Belarus Joint Project	10.4
3.	Shivraman, Adepu Kumar	Mechanical and Tribological Characterization of Al-Si product developed by wire arc additive manufacturing	ARDB	23.74
4.	Anant kumar Rai	Enhancing Performance Characteristics of a Centrifugal Pump in Erosive Conditions	SERB	26.07
5.	G. Venkatesh, P Vamsi Krishna	enhancement of orthopedic implants with Rotary Ultrasonic Assisted AbrasiveFlow Machining (R-UAAFF)	DST	33.63
6.	V. R. K. Raju, S. S. Rao	Design and Development of Microchannel Mixers for Medical Applications and Microchannel Heat Exchangers for Cooling Electronic Equipment	SERB-DST	27.6
7.	Karthik Balasubramanian and C. Sampath Kumar	Effective Thermal Management of Electric Vehicle Battery Packs for Enhanced Efficiency, Reliability and Safety	SERB-CRG	25.52
8.	VP. Chandramohan and Karthik Balasubramanian	Development of Active Cooling for Avionics	DRDO – RCI	14.39
9.	Karthik Balasubramanian, Kiran Kumar Kupireddi, Chandramohan.	Thermal Management of Green Data Centers	MHRD, GoI SPARC	43.6

Patents:

Sl. No	Title	Inventor(s)	Remarks
1	Integrated Thermocouple Waveguide Sensor System And Method - To Measure Physical Properties Of Waveguide Material And Surroundings	Suresh Periyannan, and K. Balasubramaniam	Granted
2	Modelling Operating Zones For Manufacturing Resources Using Virtual Model And Computer Graphics Based Simulation	Gaurav Kumar Sharma, Anoop Kishor1	Granted
3	Dual Security Pad Lock	SrikanthKorla	Granted
4	Shelf Assembly for an Appliance	Prasanth A. Lam, Bichakar, V. H., Maity, R., Muthamilan, M., & Prabhu, H. C	Granted
5	Appliance with a shelf assembly	Prasanth A. Lam, Bichakar, V. H., Maity, R., Muthamilan, M., & Prabhu, H. C	Granted
6	Shelf Assembly for an Appliance	Prasanth A. Lam, Bichakar, V. H., Maity, R., Muthamilan, M., & Prabhu, H. C	Filed

Short-term Courses/Workshops/Seminars/Symposia/Conferences Organised by the Faculty Members:

Sl. No	Title	Dates	Scheme	Coordinators
1	3D Printing and Design	18-24, July 2022	DST-SERB	Dr. Manjaiah M and Prof. Y Ravi Kumar
2	3D printing in Medical Applications	25-31, July 2022	DST-SERB	Dr. Manjaiah M and Prof. Y Ravi Kumar
3	Industrial Engineering and Operations Management, (IEOM India -2022)	16-18, August 2022	Department of Mechanical Engineering, NIT Warangal	Prof. V. Vasu and IEOM Team, NIT Warangal
4	International conference at 1st International Conference on Sustainable Technologies and Advances in Automation, Aerospace and Robotics (STAAAR 2022)	16-12-2022.	Mechanical engineering department, NIT Warangal	Dr Manjaiah M
5	2nd Indian International Conference on Industrial Engineering and Operational Management (IEOM India 2022)	16-08-2022	Mechanical engineering department, NIT Warangal	Dr. Gangadharudu Talla

6	ICET-2023: International Conference on Innovations in Clean Energy Technologies	8-10 April 2023	MANIT Bhopal	Chaired by Dr. Anant Kumar Rai
7	Challenges in 3D Printing and Post Processing	From 06-03-2023 to 12-05-2023	CCE FDP	Dr. GUDIPADU VENKATESH
8	Opportunities and Challenges in Artificial Intelligence and Machine Learning for Mechanical Engineers	From 04-05-2023 to 04-05-2023	CCE FDP	Dr. GUDIPADU VENKATESH
9	SERB Sponsored 07 Day High-end Research Traning Program on "Material Science in Additive Manufacturing"	From 12/06/2023 to 18/06/2023	SERB	Dr. Y. Ravi Kumar and Dr. M. Manjaiah
10	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)	June 23-24, 2023	Mechanical engineering department, NIT Warangal	Chaired by Dr. Y. RAVI KUMAR
11	1st International Conference on Mechanical Engineering-Researches and Evolutionary Challenges (ICMech-REC 23)	23-06-2023 to 25-06-2023	Mechanical engineering department, NIT Warangal	Secretaries:Dr. G Raghavendra, Dr. Syed Ismail, Prof. B Satish Ben Joint-Secretaries: Dr. Ch Sampath Kumar, Dr. G Venkatesh, Dr. Thamarai Selvan
12	Opportunities and Challenges in Artificial Intelligence and Machine Learning for Mechanical Engineers	From 24/04/2023 to 28/04/2023	Mechanical engineering department, NIT Warangal	Dr. P.Vamsi Krishna

PhD Degree Awarded:

Sl.No.	Studenrr Name	Thesis Title	Supervisor(s)	Month/year
1	Mr. Mulatu Chake Gilago	Experimental analysis on drying of agricultural food products in an indirect type solar dryer with passive and active mode provisions	Chandarmohan V.P.	April, 2023
2	Sankepally	Investigation of Heat Transfer	V.R.K. Raju	September

	Chandrasekhar	Characteristics of Liquid-Liquid Taylor Flow in Microchannel		2022.
3	M. Khirod Kumar	CO_2 based vortex tube cooling system in turning of Ti-6Al-4V	Vamsi Krishna	November 2022
4	Mr. Mugi Vishnuvardhan Reddy	Influence of thermal energy storage in forced convection indirect solar dryer during drying food products	Chandarmohan V.P.	February, 2023

Honours and Awards Obtained by Faculty:

Sl.No.	Faculty Member	Award	Awarded by	Awarded For	Date/year of Award
1	Chandramohan V.P.	Associate Editor	Sustainable Energy Research	-	28-11-2022
2	Chandramohan V.P.	International Editorial Board	Energy Nexus	-	30-10-2022
3	Chandramohan V.P.	Associate Editor	Renewables: Wind, Water, and Solar	-	10-05-2020 to Jan 2023

Special Lectures Delivered by the Faculty in Other Institutions:

S.No.	Faculty Member	Topic of Lecture	Institution	Date
1	Y. Ravi Kumar	Design Considerations in Additive Manufacturing	NIT Warangal	July 02 – 08, 2023
2	Y. Ravi Kumar	Developments in Additive Manufacturing: Bio-medical Applications	NIT Warangal	June 05 – 09, 2023
3	Y. Ravi Kumar	Research and Different Case Studies in Bio-medical Applications	NIT Warangal	April 14 – 18, 2023
4	Y. Ravi Kumar	Fundamentals of 3D Printing and Bio-printing	-	March 20-25, 2023
5	Y. Ravi Kumar	Advanced Modelling Tools for Bio-Medical Applications of 3D Printing	NIT Warangal	March 06 – 10, 2023
6	Y. Ravi Kumar	Fundamentals of 3D Printing and Bio-printing	NIT Warangal	March 06 – 10, 2023
7	Y. Ravi Kumar	Additive Manufacturing in Complex Oral and Maxillofacial Surgeries	-	February 1-10, 2023
8	Y. Ravi Kumar	Design for Additive Manufacturing (DfAM)	-	January 30 – February 10, 2023
9	Y. Ravi Kumar	3D Printing Technology	-	December 01, 2022
10	Y. Ravi Kumar	Additive Manufacturing: A Promising Technology in Industry 4.0	-	October 17 – 29, 2022
11	Y. Ravi Kumar	Design of Materials for Additive	IIT BHU	October 11

		Manufacturing		– 15, 2022
12	Y. Ravi Kumar	3D Printing: The Key Technology in Industry 4.0	-	September 15–20(Online) & 26–30(Offline), 2022.
13	Y. Ravi Kumar	Design for Additive Manufacturing (DfAM)	-	September 05-09, 2022
14	Chandramohan V.P	Recent trends in renewable energy sources and applications	-	11th May 2023
15	Chandramohan V.P	Renewable Energy Sources and Applications	Annamalai University	13th Feb 2023
16	Chandramohan V.P	Effective ways to do literature survey and identify the project work	Chandigarh College of Engineering & Technology	10th Feb., 2023
17	Chandramohan V.P	Renewable Energy Sources and Applications	University College of Engineering Villupuram,	18th July 2022
18	Syed Ismail	Soft Composite Coating Material: Tribological and Machining Applications	GMRIT, Rajam, AP	29th April 2023
19	Manjaiah M	Overview of 3D printing	-	16th Dec 2022
20	Gaurav Kumar Sharma	Digital Manufacturing: Robotic Simulation	Indian Institute of Science, Bangalore	16th Oct 2022
21	P Vamsi Krishna	Ultrasonic-assisted magneto abrasive finishing	Gudlavalleru Engineering college, A.P	21-06-2022
22	P Vamsi Krishna	World Conference on Applied Science, Engineering & Technology (WCASET 2022)	Ethiopia	24-08-2022
23	P Vamsi Krishna	Vibration Assisted Machining	Phiippines,	22-09-2022.
24	P Vamsi Krishna	Nano cutting fluids applications in machining	JNTU College of Engineering,	25-02-2023

DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

Faculty and Their Activities

Sl. No.	Name and Qualifications	Major Research Specializations
	Professor (HAG)	
1.	Prof. G. V. S. Nageswara Rao Ph. D. (NIT Warangal)	Mechanical Metallurgy, Creep, Fatigue and Creep-Fatigue Interactions, Surface Engineering and Thermomechanical Treatment of steels
	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 Physical Metallurgy, Texture, Nuclear Materials, Light Metals & Alloys, Corrosion
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. V. Sreedevi Ph. D. (University of Hyderabad)	Synthesis, Characterization and Mechanical Behavior of Bulk Nanocrystalline Materials, Alloys/Composites for Hydrogen Generation, Machine Learning for Phase/Property Prediction
12.	Prof. V. Rangadhara Chary Ph. D. (NIT Warangal)	High Performance Structural Ceramics, Phase Transformations, Corrosion of Weldments, Polymer Nanocompposites

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

Journal Publications:

1. P. Anil Kumar, J. Vanaja, G.V. Prasad Reddy, G.V.S. Nageswara Rao, Influence of thermomechanical processing and tempering temperature on tensile flow and work hardening behaviour of India specific reduced activation ferritic martensitic steel, *Materials Science & Engineering A*, Vol. 886, No. 145701, pp. 1-13, 2023.
2. U. Ravi Kiran, B. Rajavardhan, A. Kumari, A. Panchal, G. V. S. Nageswara Rao, T. K. Nandy, Effect of swaging on microstructure and mechanical properties of W-Ni-Co alloys, *International Journal of Refractory Metals and Hard Materials*, Vol. 116, No. 106333, pp. 1-12, 2023.
3. Paras Narula, P. Anil Kumar, J. Vanaja, G. V. Prasad Reddy, G. V. S. Nageswara Rao, Machine learning assisted prediction of creep data of India specific reduced activation ferritic martensitic steel, *Materials Today Communications*, Vol. 35, No. 106165, pp. 1-8, 2023.
4. P. Anil Kumar, J. Vanaja, G. V. Prasad Reddy, G. V. S. Nageswara Rao, Creep deformation behaviour of thermomechanically treated India specific reduced activation ferritic martensitic steel, *Journal of Nuclear Materials*, Vol. 581, No. 154441, 2023.
5. P. Anil Kumar, J. Vanaja, G.V. Prasad Reddy, G.V.S. Nageswara Rao, Effect of thermomechanical treatment and tempering temperature on microstructure and tensile properties of India specific reduced activation ferritic martensitic steel, *Journal of Nuclear Materials*, Vol. 574, No. 154186, 2023.
6. Umme Thahira Khatoon, Aditya Velidandi, G.V.S. Nageswara Rao, Copper oxide nanoparticles: Synthesis via chemical reduction, characterization, antibacterial activity, and possible mechanism involved, *Inorganic Chemistry Communications*, Vol. 149, No. 110372, 2023.
7. Umme Thahira Khatoon, Aditya Velidandi, G.V.S. Nageswara Rao, Sodium borohydride mediated synthesis of nano-sized silver particles: Their characterization, anti-microbial and cytotoxicity studies, *Materials Chemistry and Physics*, Vol. 294, No. 126997, 2023.
8. P. Anil Kumar, J. Vanaja, G.V. Prasad Reddy, G.V.S. Nageswara Rao, On the improvement of tensile properties of thermo-mechanically treated India specific reduced activation ferritic-martensitic steel, *Materials Science & Engineering A*, Vol. 843, No. 143098, 2022.
9. B. V. R Mandalika, S. R. Bonta, R. J. Soni, S. Annamraju, N. Nayaka, Development of High Strength Fire-Resistant Earthquake Steel, *Journal of Materials Engineering and Performance*, 2023. https://doi.org/10.1007/s11665-023-08110-1
10. C. Chandra, G. R. Kiranchand, C. K. Teja, B. Srinivasa Rao, M. Nani Babu, N. Narasaiah, Effect of force ratio on creep-fatigue crack growth (CFCG) of P91 steel, *Journal of Materials Science*, Vol. 57, No. 30, pp. 14478-14489, 2022.
11. B. Padya, Akshay, N. Ravikiran, Ravi Kali, B. Bollareddy, N. Narasaiah, P.K. Jain Constructing nanocarbon-loaded precisely phase transition-tuned energy composite eutectics with enhanced

thermal conductivity: Nanocarbon's crystallinity-dependent thermal transport, *Materials Today Communications,* Vol. 30, No. 103024, 2022.

12. D. B. Anant Sagar, Y. Pardhu, M.S.K. Rao, N. Narasaiah, Strain hardening behavior of friction welded beta titanium alloy Titan 1023 used for aeronautical applications, *Materials Today: Proceedings*, Vol. 52, No. 2, pp. 687-692, 2022.
13. M. B. V. Rao, A. Syamsundar, N. Narasaiah, Study on arc and TIG welding of earthquake-resistant structural steels with a higher carbon equivalent, *The International Journal of Advanced Manufacturing Technology,* Vol. 119, pp. 2553–2570, 2022.
14. M. B. V. Rao, A. Syamsundar, N. Narasaiah, Development of seismic resistant steel with high strength and corrosion resistance, *Materials Today: Proceedings,* 2022. https://doi.org/10.1016/j.matpr.2022.01.434
15. V. A. S. Kondapalli, Koppoju Suresh, M. Ramakrishna, N. Narasaiah, B. Srinivasarao, Effect of Cu content on the microstructure and mechanical properties of $FeNiMnCu_xAl_{0.1}Ti_{0.1}$ (x = 0.5, 1.0 and 1.5) high entropy alloy system, *Journal of Alloys and Compounds,* Vol. 940, No. 168819, 2023.
16. V. A. S. Kondapalli, N. Narasaiah, B. Srinivasarao, Elemental effect on the phase formation and mechanical properties in the FeNiMnCuAlTi alloy system, *Journal of Alloys and Compounds,* Vol. 940, No. 172497, 2023.
17. M. Vidhish Naik, N. Narasaiah, P. Chakravarthy, R. Arockia Kumar, Microstructure and mechanical properties of friction stir processed Zn-Mg biodegradable alloys, *Journal of Alloys and Compounds,* Vol. 940, No. 172160, 2023.
18. Manoj Velishala, Mahesh Pandiripalli and C. Vanitha, Investigation on Corrosion and Wear Properties of Al-7075/TiC Composites Fabricated by Stir Casting Route, *Met. & Mate. Engg,* Vol. 28, No. 3, pp. 435-452, 2022.
19. P. Manda, A. Rewapati, C. Vanitha and A.K. Singh, Structure - property - processing correlations in metastable beta titanium alloys Ti-10V-2Fe-3Al and Ti-5Al-5Mo-5V-3Cr, *Advances in Materials and Processing Technologies*, Vol. 8, pp. 1924-1959, 2022.
20. Manda Premkumar, Quamar MD Jawed, C. Vanitha, Singh Ashok, Structure, Processing, Property Correlation of Metastable β Titanium Ti-5Al-5Mo-5V-3Cr alloy, *Journal of process Mechanical Engineering,* 2022. https://doi.org/10.1177/09544089221110431
21. Vadapally Rama Rao, Deepak K. Pattanayak, C. Vanitha, Hot impression creep behavior of AlSi10Mg alloy fabricated through SLM route, *Transactions of the Indian Institute of Metals*, Vol. 76, No. 2, pp. 271-277, 2022.
22. A. Sai Deepak Kumar, Deepak K. Pattanayak, Mohammad Fayaz Anwara , Archana Rajendran and C.Vanitha, The effect of porosity, oxygen and phase morphology on the mechanical properties of Selective Laser Melted Ti-6Al-4V with respect to annealing temperature, *Transactions of the Indian Institute of Metals*, Vol. 76, pp. 1789–1798, 2023.
23. T. Maredla, Balaji Chaganty, S.S. Bobby, S.K. Sahoo, C. Vanitha, Effect of cold rolling on the microstructure and texture of SLM built Fe-Ni-Cr steel, *Journal of Materials Engineering and Performance,* Vol. 32, No. 24, pp. 1-11, 2023.
24. C. Vanitha, Vadapally Rama Rao, sashank C, Deepak K. Pattanayak, Indentation derived creep response of age hardened AlSi10Mg fabricated through Powder Bed Fusion process, *Transactions of the Indian Institute of Metals,* 2023. https://doi.org/10.1007/s12666-023-03020-1
25. C. Vanitha, K. Baro, sashank C, Effect of Temperature and Stress on Hot Impression Creep Behaviour of Cu-1.5 Zn Alloy, *Journal of Materials Engineering and Performance,* Vol. 32, No. 24, 2023.

26. P. Senthil P, Ekansh Singh, Sukumar G, Chandana R, Vanitha C, B. Bhav Singh, Influence of austenitization temperature on tensile properties and impact toughness of niobium micro-alloyed carbide free bainitic steel, *Transactions of the Indian Institute of Metals,* 2023. https://doi.org/10.1007/s12666-023-03115-9
27. V. Ganesh, R.R. Tamboli, AK Khanra, SR Dey, Structural characterisation of unique core-shell shaped Al3Ni2/Al3Ni in-situ intermetallic in Al–4Cu-xNi via powder metallurgy (P/M), *Vacuum,* Vol. 213, No. 112166, 2023.
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29. P. Raju, A.K. Khanra, M.B. Suresh, Y.S. Rao, R. Johnson, Pressure slip cast processing of alumina (Al_2O_3) products and comparative evaluation of mechanical properties, *Advances in Applied Ceramics,* Vol. 121, No. 5-8, pp. 211-221, 2022.
30. P. Raju, P. Biswas, A.K. Khanra, Y.S. Rao, R. Johnson, Investigations on colloidal and dry formed alumina parts under pressure and pressure-less conditions, *Processing and Application of Ceramics,* Vol. 16, No. 2, pp. 160-166, 2022.
31. K. Vamsi Krishna, C. Gopi Krishna, Polamarasetty Nagendra, M.K. Talari, Vijay N. Nadakuduru, Nagumothu Kishore Babu, Microstructural characterization and mechanical properties of metastable beta and α+β titanium alloy electron beam weldments, *Fusion Science and Technology,* 2023. https://doi.org/10.1080/15361055.2023.2200523.
32. Vamsi Krishna K, Gopi Krishna C, Ateekh Ur Rehman, Kishore Babu Nagumothu, M.K. Talari, Prakash Srirangam, Effect of welding speed and post-weld heat treatment on microstructural and mechanical properties of alpha+beta titanium alloy EB welds, *Fusion Science and Technology,* 2023. https://doi.org/10.1080/15361055.2023.2211723
33. G. Krishna C, M. J. Quamar, Kishore Babu Nagumothu, G.V Sarath Kumar, Bharath Bandi & M.K. Talari,Investigations of Microstructure and Mechanical Properties of Post-Weld Heat-Treated DP780 Steel TIG Welds, *Fusion Science and Technology,* 2023. (https://doi.org/10.1080/15361055.2023.2219830)
34. V. Ajay, M. Naveen Kumar, N. Kishore Babu, T. Mahesh Kumar, K. Vamshi Krishna & G. Madhusudan Reddy, Rotary friction welding of Inconel 718 – AISI 304 stainless steel dissimilar joint, *Materials Science and Technology,* 2023. https://doi.org/10.1080/02670836.2023.2187146
35. K. Vamsi Krishna, M. K. Talari, Bharath Bandi, Sriharitha Rowthu, M. I. Khan, P. Mastanaiah & N. Kishore Babu, Effect of welding speed on microstructural and mechanical properties of EB Ti-15V-3Al-3Cr-3Sn welds, *Materials Science and Technology,* 2023. https://doi.org/10.1080/02670836.2023.2171765
36. Kumara Swamy Pulisheru, Anil Kumar Birru, Praveen Kumar Bannaravuri, Brahma Raju Golla, Wear and corrosion behaviour of electromagnetic stir casted Al-5Cu-2Ni/(0-5 wt.%) FeNb alloy composites, *Transactions of the Indian Institute of Metals,* 2023. https://doi.org/10.1007/s12666-023-03059-0
37. Ashutosh Kumar and Brahma Raju Golla, High dielectric Al_2O_3-(20-30 wt.%) HDPE composites processed via cold sintering, *Ceramics International,* Vol. 49, No. 19, pp. 31405-31411, 2023.
38. Brahma Raju Golla, Highly strong aluminum via ball milling and high pressure hot press, *Manufacturing Letters,* Vol. 36, pp. 18-21, 2023.

39. M. A. Shaik, Brahma Raju Golla, “Microstructure, mechanical and wear property correlation of Al bronze alloys” *Powder Metallurgy*, Vol. 66, pp. 54-63, 2023.
40. S. Khaple, Brahma Raju Golla and V. V. Satya Prasad, A review on the current status of Fe-Al based ferritic lightweight steel, *Defence Technology,* Vol. 26, pp. 1-22, 2023.
41. G. Kommineni, Brahma Raju Golla, V.V. Satya Prasad, An overview on effect of alloying elements on the phase formation, mechanical and oxidation properties of Nb-Nb silicide in situ composites, *Silicon,* Vol. 15, pp. 651-681, 2022.
42. Venkta Ashish Srivatsav Kondapalli, N. Narasaiah, B. Srinivasarao, “Elemental effect on the phase formation and mechanical properties in the FeNiMnCuAlTi alloy system”, *Journal of Alloys and Compounds,* Vol. 969, No. 172497, 2023.
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44. Venkta Ashish Srivatsav Kondapalli, Koppoju Suresh, M. Ramakrishna, N. Narasaiah, B. Srinivasa Rao, "Effect of Cu content on the microstructure and mechanical properties of FeNiMnCuxAl0.1Ti0.1 (x=0.5,1.0 and 1.5) high entropy alloy system", *Journal of Alloys and Compounds,* Vol. 940, No. 168819, 2023.
45. C. Ravikanth Reddy, K. Satya Prasad, B. Srinivasa Rao, "Microstructure and mechanical properties of Mg-Ni-Gd alloy synthesized by powder metallurgy", *Powder Metallurgy,* 2023. https://doi.org/10.1080/00325899.2022.2163553
46. C. Ravikanth Reddy, B. Srinivasa Rao, "Development of High-Strength Mg-0.5Ni-2Gd-xLi (x=0, 1, 5, 10, 15, 25 at.%) Alloys with Long-Period Stacking Ordered structure through hot extrusion", *Journal of Materials Engineering and Performance,* 2022. https://doi.org/10.1007/s11665-022-07480-2
47. Chitresh Chandra, G. R. Kiranchand, Challa Krishna Teja, B. Srinivasa Rao, M. Nani Babu, N. Narasaiah, "Effect of force ratio on creep-fatigue crack growth (CFCG) of P91 steel", *Journal of Materials Science: Metals & Corrosion,* 2022. https://doi.org/10.1007/s10853-022-07521-0
48. Saijyothi Nagireddi, B. Srinivasarao, D. Arvindha Babu, SS Satheesh Kumar, “Structural and mechanical properties of Hf55Cu28Ni5Al12 bulk metallic glass alloy prepared at different cooling rates”, *Journal of Non-Crystalline Solids,* vol. 580, No. 121373, 2022.
49. Giridhar Gudivada and Ajoy Kumar Pandey, Recent developments in nickel-based superalloys for gas turbine applications: Review, *Journal of Alloys and Compounds,* Vol. 963, No. 171128, 2023.
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52. Y. Venkat, K.R. Choudary, D. Chatterjee, D.K. Das, A.K. Pandey, Sarabjit Singh; Development of mullite-alumina ceramic shells for precision investment casting of single-crystal high-pressure turbine blades, *Ceramics International,* Vol. 48, pp. 28199-28206, 2022.
53. M. Vidhish Naik, N. Narasaiah, P. Chakravarthy, R. Arockia Kumar, Hot-extrusion behaviour of biodegradable Zn-Mg alloys, *Materials Today: Proceedings,* Vol. 56, pp. 1432–1439, 2022.

54. M. Vidhish Naik, N. Narasaiah, P. Chakravarthy, R. Arockia Kumar, Microstructure and mechanical properties of friction stir processed Zn-Mg biodegradable alloys, *Journal of Alloys and Compounds*, Vol. 940, No. 172160, 2023.
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69. C. Suryanarayana, Ahmed A. Al-Joubori, Furkan Türker, Uma M.R. Seelam, "Synthesis of nanocrystalline ZnSe by mechanical alloying", *J. Mater. Res.*, Vol. 38, pp. 4261-4271, 2023.

Conference presentations:

1. Abhyuday Patel Kolupula, Mohammed Rafi, Vadali V S S Srikanth, Sreedevi Varam, "Hydrogen Generation by Hydrolysis Aluminium Waste", International Conference on Management and Recycling of Metallurgical Wastes (MetWastes-23), Varanasi, 27-28 February, 2023.
2. C. Krishna Teja, Kiranchand G.R., N. Narasaiah, Creep Fatigue Crack Growth (CFCG) Studies on P91 Steel, 3rd Int. Conference on Structural Integrity (ICONS – 2023), Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, 23-25 August, 2023.
3. C. Vanitha, B Chandra Sekhar, CH Kalyan Kumar, D Arun Kumar, Effect of Cold Rolling on Microstructure and lattice strain of 7075 Aluminium, ERIIS-2022, NITW, 14-15 October, 2022.
4. K. Harsha Vardhan, K. Harsha Ravi Teja, K. Ashish, Srikar, Raja Saladi, Balaji Chaganty, C. Vanitha, Effect of heat treatment on the microstructure and corrosion behaviour of AZ31 alloy, ERIIS-2022, Warangal, 14-15 October, 2022.
5. N. Bala Balaji Bharadwaj, M. Sai Vamshi, M. Aravind Kumar, P. Sai Sri Soumya, U.V.,Madhav Rao, Tarun Maredla and C. Vanitha, Effect of Austenizing temperature on the microstructural development of AISI D2 tool steel, ERIIS-2022, Warangal, 14-15 October, 2022.
6. P. Mahesh, S.S. Satheesh Kumar, I. Balasundar and C. Vanitha, Microstructural Evolution During Heterogenization Annealing and Hot Deformation in a Medium Alloyed Nickel based Superalloy DMR SN-742, NMD-2022, Hyderabad, 13-15 Nov, 2022.
7. Tarun Maredla, Balaji Chaganty, SS Bobby, SK Sahoo, C. Vanitha, Effect of cold rolling on the microstructure, texture and hardness of SLM built Fe-Ni-Cr super austenitic stainless steel, ICPCM22, Rourkela, 9-11 Dec, 2022.
8. B. Chaganty, Tarun Maredla, SS Bobby, SK Sahoo, C. Vanitha, Effect of Cold rolling on texture and microstructure development in annealed Incoloy 800 fabricated using Selective Laser Melting, ICPCM22, Rourkela, 9-11 Dec, 2022.
9. C. Vanitha, Kaushik Baro, C.Sashank, Effect of Temperature and Stress on Hot impression creep behaviour of Cu-1.5 Zn alloy, ICPCM22, Rourkela, 9-11 Dec 2022.
10. B. Shivakumar, C Vanitha, High Temperature Oxidation properties of Inconel 718 Fabricated through casting route, ICPCM22, Rourkela, 9-11 Dec, 2022.
11. C. Vanitha, Pankaj Bansod, Bonta Srinivasa Rao, N. Narasaiah, B. Pazhanivel and Deepak K Patanayak, High Cycle Fatigue behaviour of AlSi10Mg alloy processed by Selective Laser Melting, ICMDM 2023, COE-AU, Chennai, 23-25 Feb, 2023.

12. K.N.B. Kumar and C.Vanitha, Effect of rotation speed on the microstructure and mechanical properties of friction stir dissimilar welded AZ91-AZ31 alloy, ICMDM 2023, COE-AU, Chennai, 23-25 Feb, 2023.
13. C. Vanitha, Neelakantam Mounika, Harshitha Kunala, Sashank C, Deepak K. Pattanayak, Strain Hardening response of AlSi10Mg alloy processed through SLM, ICMDM 2023, COE-AU, Chennai, 23-25 Feb, 2023.
14. Ponguru Senthil P, Ekansh Singh, Sukumar G, Chandana R, Vanitha C, Influence of austenitization temperature on tensile properties and impact toughness of niobium micro-alloyed carbide free bainitic steel, ICMDM 2023, COE-AU, Chennai, 23-25 Feb, 2023.
15. U.M.R. Seelam, H. Sepehri-Amin, T. Ohkubo, and K. Hono "High coercivity hot-deformed Nd-Fe-B magnets by grain boundary infiltration" 76th Annual Technical Meeting of Indian Institute of Metals (IIM-2022), Hyderabad, 14-16 Nov, 2022.
16. B. Santhi, Aravindh Babu D and U.M.R. Seelam, "Mechanical and magnetic properties of bulk Cu-50 at.% Fe alloys synthesized by spark plasma sintering", 76th Annual Technical Meeting of Indian Institute of Metals (IIM-2022), Hyderabad, 14-16 Nov, 2022.
17. B. Santhi, Aravindh Babu D and U.M.R. Seelam, "Effect of sintering temperature on microstructure and mechanical properties of bulk Cu50Fe50 nanomaterials synthesized by spark plasma sintering", Recent advances in inorganic and organometallic chemistry, Warangal, 24-25 Feb, 2023.
18. Santhi B, Aravindha Babu D, U.M.R. Seelam, "Effect of sintering temperature on the structure of bulk $Cu_{50}Fe_{50}$ (at.%) alloys synthesized by spark plasma sintering", International Conference Women Inclusive Network (WIN-2023), Warangal, 17-18 March, 2023.

Sponsored R&D Projects:

Sl.No.	Investigators	Title of the Project	Funding Agency	Grant Value (INR in lakhs)
1.	Bonta Srinivasa Rao, Ajoy Kumar Panday, and N. Narasaiah	Creep-Fatigue Crack Growth (CFCG) studies on alloy 617 forge materials	BRNS	33.0
2.	Ajoy Kumar Pandey, N. Narasaiah and B. Srinviasa Rao	Exploratory studies on effect of fatigue and hold time on crack growth behavior of GTM Ti-64 alloy'	Gas Turbine Research Establishment (GTRE)	90.56
3.	Asit Kumar Khanra	Teachers Associateship for Research Excellence	SERB-TARE	18.30
4.	Nagamuthu Kishore Babu	SERB	SERB-TARE	18.30
5.	Mahesh Kumar Talari	Development of novel B and C modified fillers for the gas tungsten arc welding of Ti alloys, Aeronautics R&D Board	DRDO	48
6.	Nagamuthu Kishore Babu	Understanding the Role of Hydrogen in Titanium Alloy Weldments,	DRDO	48.24

		Aeronautics R&D Board		
7.	N. Narasaiah	Oxide dispersion strengthened (ODS) iron based alloys for Advanced Utra Super Critical (AUSC) Technology	DST (ARCI),	90.812
8.	V. Sreedevi	Hydrogen Production through Water Splitting by Novel Nanocrystalline Al-based Alloys (with Added Few Layered Graphene)	SERB-CRG	34
9.	Uma Maheswara Rao Seelam	towards 3-tesla coercivity Nd-Fe-B magnets without dysprosium addition into the bulk	SERB-CRG	29.8

Patents:

S.No	Title	Inventor(s)	Remarks
1	High strength Earthquake Corrosion Fire and Fatigue Resistant steel (EQCFFR)	Bhaskara Venkata Rao Mandalike, Narasaiah Nayaka, Phani Shashanka Karamched, Veeraaby Gollapalli, Sairam Krishan Malladi	Filed

Short-term Courses/Workshops/Seminars/Symposia/Conferences Organised by the Faculty Members:

S. No	Title	Dates, Month, Year	Organized by	Coordinators
1	Shape Memory Materials – Basics and Applications	13-17 February, 2023	GIAN	R. Arockia Kumar and B. Srinivasa Rao
2	Evaluation of Material Properties under Dynamic Loading	19-25 January, 2023.	STUTI training programme	Arockia Kumar, Bonta Srinivasa Rao and Ajoy Kumar Pandey

PhD Degrees Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)	Month/year
1	Tejassvi Pakki	Investigation on Electrospun nanofiber based electrodes for Li-S battery application	Tata N. Rao and B. Srinivasa Rao	August 2022
2	M. B. Venkata Rao	Development of an Earthquake Resistant Steel with High Strength, Improved Corrosion and Fire Resistance	N. Narasaiah and A. Syamsundar	April 2023
3	B Anant Sagar	Microstructure and mechanical	N. Narasaiah	April 2023

	Devabatini	behaviour of friction welded beta titanium alloy titan 1023	and M. Sai Krishna Rao	

Honours and Awards Obtained by Faculty:

S.No.	Faculty Member	Award	Awarded by	Awarded For	Date/year of Award
1	C. Vanitha	Best paper award	ICMDM 2023	Presenting a paper	23-25 Feb 2023

Special Lectures Delivered by the Faculty in Other Institutions:

S.No.	Faculty Member	Topic of Lecture	Institution	Date
1	V. Sreedevi	Structure and Properties of Materia	-	19-25 January 2023
2	V. Sreedevi	Machine Learning Applications in High Entropy Alloys	SRMIST, Tamilnadu	05-10th December 2022
3	C. Vanitha	Hot impression creep behaviour of alsi10mg alloy processed through SLM route	CECRI Karaikudi	21 Sep.2022
4	G. Brahma Raju	Hands-on Training on XRD	CRIF, NIT Warangal	05-12-2022
5	Uma Maheswara Rao Seelam	-	IIT-BHU, Varanasi	26-28 October 2023
6	Uma Maheswara Rao Seelam	-	NIT Warangal	23 June 2023
7	Uma Maheswara Rao Seelam	-	NIT Warangal	22 January 2023
8	Uma Maheswara Rao Seelam	Micro-structural characterization for Nano-materials	NIT Warangal	21-23 July 2022
9	Uma Maheswara Rao Seelam	Basics and Advances of Permanent Magnets	IIIT (RGUKT) Basar	20 July 2022

Invited Lecture by External Experts:

1. Anil Agarwal and Vikramjunjunwala, Online lecture on opportunity in the Al industry, 9 September 2022.

Student Awards:

S.No.	Name	Achievement Details (Conference paper, best paper award, abroad visit, etc.)	Date(s)
1	Prateek	3rd B.Tech student, Selected for the prestigious TRAERF Student Summer Internship	2023

2	Tarun Maredla	Best Undergraduate Student Researcher Award	2022-2023
3	Tarun Maredla	Prof. AV Ramana Rao memorial gold medal" (by Alumini, MMED, NITW)	2022-2023
4	C. Sashank	Best Paper Award "Strain hardening response of AlSi10Mg alloy processed through SLM" C. Vanitha, Neelakantam Mounika, Harshitha Kunala, Sashank C, Deepak K. Pattanayak (ICMDM)	23-25 Feb 2023
5	Tarun Maredla	Best Presentation "Effect of cold rolling on the microstructure, texture and hardness of SLM built Fe-Ni-Cr super austenitic stainless steel", Tarun Maredla, Balaji Chaganty, SS Bobby, SK Sahoo, C. Vanitha	9-11 Dec 2022

DEPARTMENT OF PHYSICS

Faculty and Their Activities:

S. No.	Name and Qualifications	Major Areas of Specialization
Professors		
1.	Prof. B. Sobha Ph. D. (IIT Madras)	Sensors, Transducers and related Electronics/instrumentation;Materials for solar energy and energy harvesting applications ; Material Science
2.	Prof. T Venkatappa Rao (Head) Ph. D. (Kakatiya University, Warangal)	Green Nanomaterials; Polymer Nanocomposites; Activated Carbon; Biosensors; Gas Sensors; Supercapacitors; Radiation effects on Polymers; Fiber Bragg sensors; Glasses and Glass Ceramics; Highly correlated electron systems.
3	Prof. D. Dinakar Ph. D. (NIT Warangal)	Electronics, fiber optic sensors and Material Science
4	Prof. P Abdul Azeem Ph. D. (Sri Krishna Devaraya University, Anantapur)	Glass science, Photonic crystals, Optical system designing, Optical properties of Glass and glass ceramics, Luminescent materials and Devices, Biomaterials (glasses, glass ceramics and composites) for tissue engineering, drug delivery and bio imaging applications
5	Prof. P Syam Prasad Ph. D. (Acharya Nagarjuna University, Guntur)	Glasses and glass-ceramics for electronic, optical and biomedical applications Nanostructured magnetic and semiconductor materials Magnetic and semiconductor thin films and devices
6	Prof. Sourabh Roy Ph. D. (IIT Kharagpur)	Optics & Photonics: Integrated Optics; Fiber Optics; Nonlinear Optics; Photonic Crystal Waveguides and Fibers; Photonic Sensor; Optical System Design.
7	Prof. K Thangaraju Ph. D. (Anna University, Chennai)	Organic Semiconductors; OLEDs; Phosporescent OLEDs; Organic Solar Cells (OPVs); Organic/Inorganic Hybrid Nanostructures; Organic/inorganic hybrid based optoelectronic devices; Hybrid UV Photodetectors; Organic/Inorganic Hybrid Energy storage devices.
8	Prof. D Haranath Ph.D (Shivaji University, Kolhapur)	Photonic materials; Nanomaterials; Luminescent Materials and Devices; Mesoporous materials; Aerogels; Fractals; Sol-gel Technology; Energy Harvesting; Piezoelectric Devices
Associate Professors		
10	Prof. Kusum Kumari	Condensed Matter Physics - Solar cells, Energy

	Ph.D (IIT Delhi)	storage devices.
11	Prof. D Paul Joseph Ph.D (Anna University, Chennai)	Condensed Matter Physics - Experimental Specific Topics: Oxide and metallic Thin films, Nano-materials for Energy related applications - Proximity Effect between Manganite and YBCO - Transparent Conducting Thin Films - Magnetic Materials.
12	Prof. V Jayalakshmi Ph.D (CeNS, Bangalore)	Experimental Soft Condensed Matter Physics, Microfluidics, Biosensors, Anti-counterfeiting, Smart windows, Confinement Effects, Gas Sensors, Geometric Effects, Energy Storage, Photo detectors
Assistant Professors		
14	Prof. R. Rakesh Kumar Ph.D (IISc Bangalore)	Energy Harvesting; Energy Storage; Nanogenerators; Nanomaterials; Nanowires growth; Sensors; Thin films; Gas sensors
15	Prof. Vijay Kumar Ph.D (University of Hyderabad)	Machine Learning, Deep learning, Optical Angular Momentum, Optical communication, Fiber optics, Nano-Optics, Singular Optics, Correlation Optics; Spin-Orbit interactions: Structured Light-matter Interactions.
16	Prof. K Uday Kumar Ph.D (IIT Madras)	Nanogenerators, Thin Films; Electrochromics; Transparent Conducting Oxides; Energy Harvesting Materials and Devices.
17	Prof. Surya K. Ghosh Ph.D (IIT Bombay)	Biophysics, Soft Condensed Matter Physics, Computational Physics, Polymer Physics, Active Matter, Anomalous Diffusion, Statistical Mechanics.
18	Prof. Hitesh Borkar Ph.D (AcSIR CSIR NPL, New Delhi)	2-D materials and polar electroceramics; Opto-Electronic Devices, (Transparent photovoltaics; Solar cells) ;Electronic and magnetic materials for energy harvesting applications; Ferroelectrics; multiferroics
19	Prof. Aalu Boda Ph.D (University of Hyderabad)	Theoretical condensed matter physics, Low dimensional systems and nanostructures (Quantum Dots), Spintronics and Computational materials science.

Journal Publications:

1. K.A. Saraswathi, M. Sai Bhargava Reddy, N. Jayarambabu, Shampa Aich, Tumu Venkatappa Rao, "Highly sensitive Non-enzymatic, Non-Invasive Disposable Electrochemical Polyaniline Nanocaps based Sweat Sensor for Glucose Monitoring," Materials Letters, Vol. 349, No. 0167577X, pp. 134850-134855, 2023.
2. N Jayarambabu, Kailasa Saraswathi, A Akshaykranth, N Anitha, T Venkatappa Rao, "Bamboo-mediated silver nanoparticles functionalized with activated carbon and their application for non-enzymatic glucose sensing," Inorganic Chemistry Communications, Vol,147, No. 13877003, pp. 110249-1102457, 2023.

3. A. Akshaykranth, N. Jayarambabu, T. Venkatappa Rao, R. Rakesh Kumar & L. Srinivasa Rao, "Antibacterial activity study of ZnO incorporated biodegradable poly (lactic acid) films for food packaging applications," Polymer Bulletin, Vol. 80, No. 14362449, pp. 1369–1384, 2023
4. N Anitha, K Jayanthi, M Rakshita, Aachal A Sharma, N Jayarambabu, A Akshaykranth, Kishore Babu, T Venkatappa Rao, D Dinakar, D Haranath, "Origin of the active luminescence from Sm 3+-activated borate phosphors: a correlational study of trap states and decay kinetics," New Journal of Chemistry, Vol. 47, No. 1369-9261, pp 1472-1478, 2023.
5. N Jayarambabu, Suresh Velupla, A Akshaykranth, N Anitha, T Venkatappa Rao, "Bambusa arundinacea leaves extract-derived Ag NPs: evaluation of the photocatalytic, antioxidant, antibacterial, and anticancer activities," Applied Physics A, Vol.129, No. pp. 0947-8396 1-13, 2023.
6. K. Rajaiaha, K. Manamohana, S. Nirmalaa, T. Venkatappa Raob, and P. C. Upadhya, "Satellite Time Keeping Methodology for IRNSS/NavIC Constellation, Gyroscopy and Navigation, Vol. 13, No.20751109, pp. 149–154, 2022.
7. Rajaiah Kaitha, Manjula R., Pragya Tiwari, Minni J Kappen, Shubhajit Biswas, Bijoy Raha, Swarupananda Pradhan, Venkatappa Rao Tumu, Umesh SB, Elumalai S., Kalpana Arvind P, Sriram KV & Prashanth C. Upadhya, "Parametric study of CPT resonance in Rubidium Vapor cell for application in atomic clock," Indian Journal of Pure and applied physics, Vol. 60, No.0975-1041, pp. 489-496, 2022.
8. A Akshaykranth, N Jayarambabu, T Venkatappa Rao, R Rakesh Kumar, L Srinivasa Rao, "Novel nanocomposite polylactic acid films with Curcumin-ZnO: Structural, thermal, optical and antibacterial properties," Current Research in Green and Sustainable Chemistry, Vol. 5 No.2666-0865, pp.100332-100339, 2022.
9. N Anitha, N Jayarambabu, A Akshaykranth, T Venkatappa Rao, "Tinospora cordifolia approached copper oxide nanoparticles using different concentrations for optical and antibacterial applications," Inorganic Chemistry Communications, Vol. 143, 13877003, pp. 109786-109796, 2022.
10. A Akshaykranth, N Jayarambabu, T Venkatappa Rao, R Rakesh Kumar, L Srinivasa Rao, "Antibacterial activity study of ZnO incorporated biodegradable poly (lactic acid) films for food packaging applications," Polymer Bulletin vol. 80, ppp.1369–1384, 2023.
11. C. Rakesh Roshan, N. Yedukondalu, Rajmohan Muthaiah, Kunduru Lavanya, Pazhedath Anees, Rajaboina Rakesh Kumar, Tumu Venkatappa Rao, Lars Ehm, and John B. Parise, "Anomalous Lattice Thermal Conductivity in Rocksalt IIA−VIA Compounds," ACS Appl. Energy Mater. Vol. 5, pp. 882−896, 2022.
12. P Supraja, R Rakesh Kumar, Siju Mishra, D Haranath, P Ravi Sankar, K Prakash, N Jayarambabu, T Venkatappa Rao, K Uday Kumar, "A simple and low-cost triboelectric nanogenerator based on two dimensional ZnO nanosheets and its application in portable electronics," Sensors and Actuators A: Physical, 2022.
13. Satish Jain, Raghavendra G, Abdul Azeem P, Raj Kumar S, Shakuntala O, "A study on mechanical and tribological properties of eco-friendly synthesized ZrO_2-doped borosilicate glasses Journal of the Mechanical Behavior of Biomedical Materials, 147(2023) 106150.
14. Srinath P, Sushil Patel, K Venugopal Reddy, Rajkumar S, Chiranjeevi P, Bramanandam M, P Abdul Azeem, "Structural and in vitro biological properties of strontium substituted bio-waste derived wollastonite for bone regeneration," Ceramics International (2023).
15. Sushil Patel, P. Abdul Azeem, Bramanandam M, Arkaprabha Adhikari, Chiranjeevi P, "In-Vitro Biomineralization, Mechanical Properties and Drug Release Efficacy of Tantalum Containing Borophosphate Bioactive Glasses," Journal of drug delivery science and technology, 84 (2023) 104436.
16. Pooja Yadav, P. Abdul Azeem, "Green Synthesis of Calcium Magnesium Silicate Using Industrial Waste Material," Materials Today Proceedings (Accepted).

17. M. Krishnam Raju, Raj Kumar Samudrala, Pooja Yadav, P. Abdul Azeem, “Color-Tunable Eu3+, “Eu2+ Activated CaSiO3 Nano Phosphor Extract from Agricultural-Recycling-Food-Waste Materials for Display Applications,” Advanced Photonics Research 2023, 2200266, 1- 9.
18. Pooja Yadav, M. Krishnam Raju, Raj Kumar S, M. Gangadhar, Jitesh Pani, Hitesh Borkar, P. Abdul Azeem, “Cost-effective akermanite derived from industrial waste for working electrodes in supercapacitor applications,” New Journal of Chemistry, 2023, 47, 3255-3265.
19. P Yadav, RP Rao, PA Azeem, “Optical and structural properties of cost-effective nanostructured calcium titanate blue phosphor,” Ceramics International 2023, 49 (4), 6314-6323.
20. Suman Gora, Lavanya Thyda, Gnyaneshwar Dasi, Reddivari Muniramaiah, Atul Thakre, Jitendra Gangwar, D Paul Joseph, M Kovendhan, P Abdul Azeem, D Dinakar, Kuppusamy Thangaraju, Hitesh Borkar, “Asymmetric resistive switching by anion out-diffusion mechanism in transparent Al/ZnO/ITO heterostructure for memristor applications,” Surfaces and Interfaces,https://doi.org/10.1016/j.surfin,30,1019502022.101950,2022,
21. MK Raju, P Srinath, RK Samudrala, PA Azeem, “Facile Green Synthesis for the Formation of β-wollastonite from Agro-food-waste,” Materials Silicon, 1-8, 2022.
22. S Patel, RK Samudrala, S Palakurthy, B Manavathi, R Gujjala, P Abdul Azeem, “In vitro evaluation and mechanical studies of MgO added borophosphate glasses for biomedical applications,” Ceramics International, 48 (9), 12625-12634, 2022.
23. R. Rakesh Kumar, K. Uday Kumar, Venkateswaran Vivekananthan, Gaurav Khandelwal, P. Supraja, Anjaly Babu, M. Navaneeth, V. Mahesh, K. Prakash, “Crystalline Porous Material-Based Nanogenerators: Recent Progress, Applications, Challenges and Opportunities,” Small, 2023, DOI: 10.1002/smll.202306209.
24. V. Lakshmi Sunitha, Supraja Potu, K. A. K. Durga Prasad, M. Navaneeth, Anjaly Babu, V. Mahesh, Rakesh Kumar Rajaboina, Uday Kumar K, Haranath Divi, “Wood Plastic Composites (WPC) Waste Based Triboelectric Nanogenerator for Mechanical Energy Harvesting and Self-Powered Applications,” Materials Letters (Aug 2023), https://doi.org/10.1016/j.matlet.2023.134995.
25. M Navaneeth, Supraja Potu, Anjaly Babu, B Lakshakoti, Rakesh Kumar Rajaboina*, Uday Kumar K, Haranath Divi, “Revolutionizing Medical Waste Management: Repurposing Saline Sheets for Tactile Sensing, Health Monitoring, and Energy Harvesting Using Triboelectric Nanogenerator Technology,” ACS Sustainable Chemistry & Engineering (July 2023), https://doi.org/10.1021/acssuschemeng.3c03136.
26. Siju Mishra, M. Rakshita, D. Haranath*, P. Supraja, R. Rakesh Kumar, “A next-generation and a unique contact points modification for boosting the performance of a triboelectric nanogenerator and its novel application in road safety sensing and detection,” ACS Applied Materials and Interfaces 15 (2023), 33095–33108, https://doi.org/10.1021/acsami.3c04848.
27. Arun Kumar Rachamalla, Supraja Potu, Vara Prasad Rebaka, Tohira Banoo, Yogendra Kumar, C. Uma Maheswari, Vellaisamy Sridharan, Rakesh Kumar Rajaboina* and Subbiah Nagarajan, “Electronically Robust Self-Assembled Supramolecular Gel as a Potential Material in Triboelectric Nanogenerator,” Chemistry-A European Journal e202301076 (2023) https://doi.org/10.1002/chem.202301076.
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112. Boudchicha, Naziha, Mostepha Iezid, Faycal Goumeidane, Messaoud Legouera, P. Syam Prasad, and P. Venkateswara Rao, "Judd–Ofelt Analysis and Spectroscopy Study of Tellurite Glasses Doped with Rare-Earth (Nd^{3+}, Sm^{3+}, Dy^{3+}, and Er^{3+})," *Materials* 16 6832 (2023). https://doi.org/10.3390/ma16216832.
113. Ramadevi Suguru Pathinti, Arun Kumar Tatipamula, Jayalakshmi Vallamkondu, "ZnO nanoparticles dispersed cholesteric liquid crystal based smart window for energy saving application," Journal of Alloys and Compounds, Vol. 963, pp.171198, 2023.
114. Saumya Ranjan Pradhan, Buchaiah Gollapelli, Ramadevi Suguru Pathinti, Ramesh Kandimalla, Jayalakshmi Vallamkondu, Optical detection of bovine serum albumin using charged cholesteric liquid crystal droplets functionalized with surfactant", Journal of Molecular Liquids, Vol. 386, pp. 122447, 2023.
115. Nilanjan Ghosh, Leena Chacko, Jayalakshmi Vallamkondu, Tanmoy Banerjee, et.al., "Perspective on Recent Outbreaks", Viruses, Vol. 15, pp. 1533, 2023.
116. Ramadevi Suguru Pathinti, Buchaiah Gollapelli, Saumya Ranjan Pradhan, Jayalakshmi Vallamkondu, "Energy saving, transparency changing thermochromism in dye-doped cholesteric liquid crystals for smart windows", Journal of Photochemistry and Photobiology A: Chemistry, Vol. 444, pp.114981, 2023.
117. Nilanjan Ghosh, Leena Chacko, Hiranmoy Bhattacharya, Jayalakshmi Vallamkondu, et.al., "Exploring the Complex Relationship between Diabetes and Cardiovascular Complications: Understanding Diabetic Cardiomyopathy and Promising Therapies", Biomedicines, Vol. 11, pp. 1126, 2023.
118. Saikat Dewanjee, Pratik Chakraborty, Hiranmoy Bhattacharya, Leena Chacko, Birbal Singh, Anupama Chaudhary, Kalpana Javvaji, Saumya Ranjan Pradhan, Jayalakshmi Vallamkondu, et.al., "Altered glucose metabolism in Alzheimer disease: Role of mitochondrial dysfunction and oxidative stress", Free Radical Biology and Medicine, Vol. 193, pp.134, 2022.
119. Buchaiah Gollapelli, Seeta Rama Raju Ganji, Arun Kumar Tatipamula, Jayalakshmi Vallamkondu, "Bio-derived chlorophyll dye doped cholesteric liquid crystal films and microdroplets for advanced anti-counterfeiting security labels", Journal of Molecular Liquids, Vol.363, pp.119952, 2022.
120. Buchaiah Gollapelli, Ramadevi Suguru Pathinti, Jayalakshmi Vallamkondu, Carbon quantum dots doped cholesteric liquid crystal films and microdroplets for anti- counterfeiting, ACS Applied Nano Materials, Vol. 5, pp. 11912, 2022.

Conference Publications:

1. N Anitha, N Jayarambabu, Jitesh Pani, R Prabhu, T Venkatappa Rao and Hitesh Borkar, Bamboo shell-based binder free activated carbo electrode for high performance supercapacitor applications, International Conference on Frontiers Materials Engineering, Indore, Dec 14-16, 2022. A-36.
2. N Anitha, N Jayarambabu, Jitesh Pani, R Prabhu, T Venkatappa Rao and Hitesh Borkar, Natural biomass eucalyptus seeds derived activated carbon as an electrode for supercapacitor applications, 7th International Conference on Nanotechnology-ICONN 2023, Chennai, 27-28 March 2023. CL-839.
3. Koustav Dey, Anirban Majee, D. Dinakar and Sourabh Roy" Comparison in sensing performance between single-multi-single mode and multi-single-multi mode fiber structure"27th Micro optics Conference MOC2022 Germany, 25-28 September 2022.
4. Koustav Dey, D Dinakar, Sourabh Roy" Detailed Investigation of MSM Fiber Structure for Various Sensing Applications" International conference Frontiers in optics(OSA) & laser science held at New York USA,16 - 20 October 2022.

5. K. Jayanthi□, Dinakar Dantala and D. Haranath, A Paper entitled" Lumino-magnetic properties of yttrium-aluminum based multi-functional metal oxide systems 'Presented at an international seminar on luminescence materials, Trivandrum, 9th to 10thDecember 2022,
6. K.Yadagiri,KAK Durga Prasad,K.Uday Kumar,R.Rakesh; Kumar,D.Dinakar,D.Haranath"Perovskite structured BiY03and doped with EU for LED Applications "Presented at an international seminar on luminescence materials, Trivandrum, 9th to 10thDecember 2022,
7. N. Anitha, T. Venkatappa Rao, D. Dinakar and D. Haranath, A Paper entitled "Probing orange-red luminescence in thermally stable borate phosphors and correlating energy transfer mechanism from trap states and decay kinetics" 'Presented at an international seminar on luminescence materials, Trivandrum, 9th to 10th December 2022,
8. Y. Anvay, K. Yadagiri, A. K. Durga Prasad, D. Haranath, G. Narsaiah and D. Dinakar A Paper entitled" Synthesis of spinel structure of chromite's and characterization of photoluminescence for LED applications Presented at an international seminar on luminescence materials held at Trivandrum, 9th to10th December 2022,
9. Kishore Kumar Aitha, D. Dinakar, Kevil Shah and K V R Murthy, A Paper entitled" Synthesis of SrCaZrLaO7: 1% Eu3+: phosphor and Photoluminescence studies" Presented at an international seminar on luminescence materials, Trivandrum, 9th to10th December 2022,
10. Siju Mishra, R. Rakesh Kumar, Dinakar Dantala and D. Haranath"□A Paper entitled" Fabrication and Studies on Luminescent ZnS Nanosheet based Novel Triboelectric Nanogenerator for Sensing and Self-Powered Digital Systems" Presented at an international seminar on luminescence materials, Trivandrum, 9th to 10th December 2022,
11. Kishore Kumar Aitha, D. Dinakar P. Indira3, and K V R Murthy: A paper entitled "SrZr2La2O7:Eu3+: A Narrow width Red-Emitting Phosphor with Photon cascading absorption and emissions for White Light-Emitting Devices Driven by UV LED" Presented at 7th International conference Luminescence and its applications at IICT Hyderabad from July 2nd to 6th, 2023.
12. Koustav Dey, N. Vangety, and Sourabh Roy, "Simultaneous strain-temperature analysis by machine learning assisted FBG sensor," in Conference on Lasers and Electro-Optics (CLEO), Technical Digest Series (Optica Publishing Group), paper ATh2K.5, 2022.
13. Koustav Dey and Sourabh Roy, "Investigation on self-imaging phenomena in single-multi-single mode fiber combination", MOC 2022, IEEE Proceedings, 2022.
14. Koustav Dey, V Nikhil, Anirban Majee and Sourabh Roy, "A machine learning approach for simultaneous measurement of temperature and strain using MSM", in JSAP-OSA Joint Symposia 2022 Abstracts, OSA Technical Digest (Optica Publishing Group), 2022.
15. Onkar N. Verma, Koustav Dey, Sourabh Roy, and Raja Ram Yadav, "Transfer of Spatial Phase Information of an Optical Vortex Beam into Spatial Intensity Distribution in an Atomic Vapor Medium", MOC 2022, IEEE Proceedings, 2022.
16. V Nikhil, Koustav Dey and Sourabh Roy, "Optimizing Convolutional Neural Network for weight classification in a plastic optical fiber", MOC 2022, IEEE Proceedings, 2022.
17. Vadapalli Durga Rama Pavan, Koustav Dey and Sourabh Roy. Exploring Liquid Infiltrated Reconfigurable Photonic Crystal Waveguide using Machine Learning. MOC 2022, Japan, IEEE Proceedings, 2022.
18. Vangety Nikhil, Koustav Dey and Sourabh Roy, "Statistical analysis of specklegrams in a stress-induced multimode fiber", COPaQ-2022, Roorkee, 2022.

19. Vangety Nikhil, Koustav Dey and Sourabh Roy, “Laser Specklegram Analysis for Weight Recognition in Plastic Optical Fiber using Deep Learning Method”, presented in NLS-2022, Kharagpur, 2022.
20. Vangety Nikhil and Sourabh Roy, “Impact of acoustic vibrations for weight classification on the plastic optical fiber assisted by Machine Learning”, Photonics-2023 IISC Bangalore, 2023.
21. Lavanya Thyda, M S Abdul Azeez, K. Naresh, S. Suneetha and Kuppusamy Thangaraju, “Hydrothermally Grown NiO Doped ZnO Nanorods Immersed in Nitrogen doped Carbon Quantum Dots (NCQDs) N-CQDs/Ni-ZNRs Hybrid Thin Films for UV Photodetector Applications, International conference on “Education 5.0 – role of Institution, Industry, and Society – 2022 (ERIIS-2022)” October 14 2022.
22. Lavanya Thyda, M S Abdul Azeez, K. Naresh, S. Suneetha and Kuppusamy Thangaraju, “Hydrothermally Grown ZnO Nanorods (ZNRs) decorated based on Nitrogen-doped Carbon Quantum Dots (N-CQDs) N-CQDs/ZNRs Hybrid Thin Film UV Photodetectors”, 7th International conference on nanoscience and nanotechnology (ICONN-2023-Virtual Conference), 27th to 29th March 2023, Chennai.
23. Koppula Naresh, Lavanya Thyda, M S Abdul Azeez, S. Suneetha and Kuppusamy Thangaraju,Enhanced Specific Capacitance of Microwave Assisted NiO Electrode for Asymmetric Supercapacitor Applications, 7th International conference on nanoscience and nanotechnology (ICONN-2023-Virtual Conference), 27th to 29th March 2023, Chennai.
24. Effect of Growth-Temperature on Morphology and Piezoelectric Characteristics of ZnS Nanostructure, Mishra S.;Supraja P.; Kumar R.R.; Haranath D., 2022 2nd International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC), IEEE Xplore, Year 2022, pp.1-4, DOI: 10.1109/PARC52418.2022.9726549
25. Triboelectric Nanogenerator Based on ZnO Nanosheet Networks for Mechanical Energy Harvesting, Supraja P.; Kumar R.R.; Mishra S.; Haranath D., 2022 2nd International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC), IEEE Xplore, Year 2022, pp.1-4, DOI: 10.1109/PARC52418.2022.9726684
26. S Mishra, P Supraja, R Rakesh Kumar, D. Haranath, “Enhancing the output performance of ZnO nanosheet based piezoelectric nanogenerator by molar ratio modifications,” Materials Today: Proceedings (Elsevier), (2023), DOI: 10.1016/j.matpr.2023.04.224.
27. P Supraja, M Navaneeth, S Mishra, D. Haranath, K Uday Kumar, R Rakesh Kumar, “Study of ZnO nanosheets growth parameters effect on the performance of the triboelectric nanogenerator,” Materials Today: Proceedings, Year 2023 DOI:10.1016/j.matpr.2023.02.087.
28. 5th International conference on Nanomaterials science and mechanical Engineering University of Aveiro, Portugal, “Electro – Optical Performance of Coumarin dye doped Cholesteric liquid crystals for the Application of Electrically Switchable Smart Window” July 5-8th, 2022
29. 2nd International Conference on Multifunctional Materials (ICMM-22) held at Geethanjali College of Engineering and Technology, Hyderabad”Study on optical properties of orange peel extract of ZnO nanoparticle dispersed in cholesteric liquid crystal systems “ during 22-24, December 2022.
30. First International Conference on Spectroscopy in Material Science (ICOSIMS-2023)- VIRTUAL, Nematic Liquid Crystals with Dispersed ZnO Nanorods via Hydrothermal Synthesis. 20-22 June 2023 Department of Physics University of Aveiro 3810-193, Portugal.

31. Trishita Das, Manas Ranjan Pandit, Purnesh Singh Badavath and Vijay Kumar*, “Speckle-learned Orbital Angular Momentum De-multiplexing”, 6th International Conference on Optics, Photonics and Lasers, Funchal, Portugal, 2023.
32. P. Singh and V. Kumar, "Hermite-Gaussian Beams Classification based on 1D Speckle Information using 1D Convolutional Neural Network," in Optica Advanced Photonics Congress 2022, Technical Digest Series (Optica Publishing Group, 2022), paper LsTu5C.3.
33. P. S. Badavath and V. Kumar, "1D CNN Empowered Speckle-based non-line-of-sight Communication using Hermite-Gaussian modes," in Frontiers in Optics + Laser Science 2022 (FIO, LS), Technical Digest Series (Optica Publishing Group, 2022), paper JW5B.56.
34. V. Raskatla and V. Kumar, "Deep Learning assisted Recognition of Perfect Optical Vortices through Astigmatic Transformed Speckle Patterns," in Frontiers in Optics + Laser Science 2022 (FIO, LS), Technical Digest Series (Optica Publishing Group, 2022), paper JTu5A.23.
35. Purnesh Singh Badavath, Venugopal Raskatla and Vijay Kumar*, “CNN-Powered Multicasting Optical Communication using Orbital Angular Momentum Beams”, Conference on Optics, Photonics and Quantum optics, Roorkee, 2022.
36. Venugopal Raskatla, Purnesh Singh Badavath, and Vijay Kumar*, “Deep Learning enabled Speckle-based OAM Shift-Keying through Intensity Degenerate Modes”, Conference on Optics, Photonics and Quantum optics, Roorkee, 2022.

Book Chapters:

1. Kaitha Rajaiah, Pragya Tiwari, R. Manjula, Nikhil Thakur, Minni J. Kappen, S. B. Umesh, T. Venkatappa rao et al, Coherent Population Trapping Based Atomic Sensors for Space Application, Advances in Small Satellite Technologies, 2023, 247-253, https://doi.org/10.1007/978, Springer.
2. K.A. Saraswathi, B. Geta Rani, M. Sai Bhargava Reddy, R. Lasina, N. Jayarambabu, K. Venkateswara Rao, Venkatappa Rao Tumu, Zinc Oxide-Based Antibacterial and Antiviral Functional Materials Combating Covid-19, ACS Biomaterials, Antibacterial and antivirial functional materials, 2023 (Accepeted).
3. Songhitha Mehar, Saraswarathi Kailasa, T. Venkatappa Rao, Venkateswara Rao Kalagadda, Chapter-4 Synthesis Approaches, Architecture Design Paradigms and Characterization of Nanostructure Materials for Supercapacitor Applications.” Nanostructured Materials for Energy Storage volume-II 2022-2023 Wily –VCH Verlag Sons ISBN: 9783527350674.
4. Vishnu V Jaiswal and D. Haranath “Quantum confinement effects and feasible mechanisms of multicolor emitting afterglow nanophosphors” Elsevier Publishing, USA, 2023, pages 99-137. https://doi.org/10.1016/B978-0-323-85278-4.00005
5. Sonal Sahai and D. Haranath “Quantum dot displays: group II–VI compound materials and technology” Elsevier Publishing, USA, 2023, pages 139-153. https://doi.org/10.1016/B978-0-323-85278-4.00009
6. Savita Sharma, K. Uday Kumar, D. Haranath, R. Rakesh Kumar and Hitesh Borkar “Organic-inorganic perovskites nanogenerators for energy harvesting applications” Nova Science Publishers Inc., NY, USA, 2022, pages 189-214. ISBN: 978-1-68507-396-1 (eBook)
7. Satya Kamal Chirauri, M Rakshita and D. Haranath “An Insights into Non-RE Doped Materials for Opto-Electronic Display Applications” Elsevier Publishing, USA, 2022, pages 433-472. https://doi.org/10.1007/978-981-19-1312-9

8. R. Rakesh Kumar, K. Uday Kumar and D. Haranath “An Insights into Non-RE Doped Materials for Opto-Electronic Display Applications” Elsevier Publishing, USA, 2022. https://doi.org/10.1016/B978-0-12-824062-5.00007-5
9. Siju Mishra and D. Haranath “Synthesis, properties, and applications of zinc sulfide for solar cells” Elsevier Publishing, USA, 2022. https://doi.org/10.1016/B978-0-12-824062-5.00007-5.
10. Pooja Yadav and P Abdul Azeem “Metal oxide-based nanophosphors for display applications" accepted for publication (2023), Elsevier: Metal Oxides for Next Generation Optoelectronic, Photonic and Photovoltaic Applications.
11. S. Gupta, P. C. Sati and Hitesh Borkar, “Resistive Switching Behaviour in Non-Magnetic oxides” , Theme: Defect-Induced Magnetism in Oxide Semiconductors, Elsevier Publisher (2023).
12. V. N. Thakur, S. Savita, Hitesh Borkar, “Flexoelectricity in lead-based ceramics: Theories and progress” , Theme Flexoelectricity in Ceramics and their Application, Elsevier Publisher (2023).
13. S. Jyothsna, T. Lavanya, M.S. Abdul Azeez, Koppula Naresh and Kuppusamy Thangaraju “Functionalized nanomaterials with enhanced anti-microbial activity,” Elsevier, Antimicrobial Nanosystems, March 2023, ISBN 978-0-323-91156-6, https://doi.org/10.1016/B978-0-323-91156-6.00007-.5.

Sponsored R&D Projects:

Sl.No.	Investigators	Title of the Project	Funding Agency	Grant Value (INR in lakhs)
1.	P. Abdul Azeem	Development of novel bioactive glass and glass ceramics - In vitro and in vivo	SERB	37.37
2.	P. Syam Prasad	Development of rare earth ion activated gallium based mesoporous multifunctional implantable bioglasses for the treatment of bone repair and regeneration	SERB	24.75
3.	P. Syam Prasad and prof. Naga Raju	Biomimetic metal oxides substituted borate-based bioactive glasses for applications in soft and hard tissue engineering	SERB	24.75
4.	Sourabh Roy	Stable Generation of Optical Vortex Beams using Long Period Grating inscribed Few-Mode Optical Fiber	SERB	39.0
5.	D. Haranath	Development of Rare-Earth Free Long Afterglow Phosphors for Signage and Strategic Road Safety Marking Applications	DST-SERB	32.58
6.	Surya K. Ghosh	Statistical Physics of Crowded Environments Exhibiting Anomalous Super-diffusion	MATRICS-DST-SERB	6.6
7.	Surya K. Ghosh	Dynamics of Complex Systems: from single particle to giant polymers	SRG-DST-SERB	14

8.	Hitesh Borkar	Development of extrinsic negative capacitance in ferroelectric-dielectric libraries for designing low-power logic devices	SERB	34.54
9.	K. Thangaraju; D. Paul Joseph and V. Jayalakshmi	Hybrid Tetrapod Nanomaterials Based Sustainable Optoelectronic Technologies	SPARC	42.74
10.	V. Jayalakshmi	Design and Development of cost-effective Label-free detection of Alzheimer's biomarkers using liquid crystals	DBT	37.5
11.	Vijay Kumar	Machine Learning Assisted Structured Light Demultiplexing Using Nanostructures	SERB	17.8

Patents:

Sl. No.	Title	Inventor(s)	Remarks
1	OzoNIT The Multi-Purpose Disinfectant Unit	Haranath Divi, Siju Mishra, R Rakesh Kumar, Dinakar Dantala	Patent hearing has been done on 12-11-2023

Short-term Courses/Workshops/Seminars/Symposia/Conferences Organised by the Faculty Members:

Sl. No	Title	Dates	Scheme	Coordinators
1	"E Resources in Science and Emerging Research Landscape", by Dr. K. Veeranjaneyulu, Librarian, NIT Warangal.	28-02-2023	One day Seminar	Physics Society
2	"Fourier Space and image resolution" by Dr VVG Krishna Inavalli, Center for Cancer Immunology, University of Southampton, UK	28-04-2023	One day Online workshop	Physics Society

PhD Degree Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)	Month/Year
1	Koustav Dey	Development of the Interrogation Technique	Sourabh Roy	May 2023

		and Sensing Performance for Simultaneous Strain and Temperature Measurement Using Fiber Optic Sensors		
2	Mrs N.Manjula	Structural, Optical, Dielectric and Magnetic properties of Alkali and Transition metal doped Tin Selenide	B.Sobha	May 2023
3	Allam. Akshaykranth	Structural, Thermal, Mechanical and Antibacterial properties of polylactic acid based nanocomposite films for packaging application	T. Venkatappa Rao	October 2022
4	N. Jayarambabu	Bamboo based nanomaterials for biomedical applications	T. Venkatappa Rao	December 2022
5	G. Buchaiah	Experimental Investigations on Cholesteric Liquid Crystal Emulsions for Biosensing and Optical Switching Applications	V. Jayalakshmi	September 2022
6	Gopala Krishna Murthy M	Mechanization Of Coriolis Vibratory Gyroscope Based On Control Algorithm Comprehension And Vacuum Sealing For Aerospace Applications	Dinakar Dantala	September 2022
7	Ashutosh Panchal	Tensile flow and work hardening behaviour of Tungsten Heavy Alloys	K. Venugopal Reddy and A.K.Singh (DMRL)	July 2022

Honours and Awards Obtained by Faculty:

Sl.No.	Faculty Member	Award	Awarded by	Awarded For	Date/year of Award
1	P. Syam Prasad	Swiss National Science Foundation Visiting Scientist	University of Zurich, Switzerland	Research	2023

		Fellowship			
3	Hitesh Borkar	SERB International Research Experience Award	SERB, University of Tennessee - Oak Ridge Innovation Institute, USA	Fellowship for research with Prof Philip D. Rack	2023-2024
4	Hitesh Borkar	SERB-ITS (International Travel Support)	SERB	To attend the 15th International Meeting on Ferroelectricity in Tel Aviv, Israel	March 26-30, 2023
5	Hitesh Borkar	Top Cited Paper Award 2022	IOP Publishing	For paper in J. Phys.: Condens. Matter, 31, 075401 (2019)	2022
6	Hitesh Borkar	Top Cited Paper Award 2021	IOP Publishing	For paper in J. Phys.: Condens. Matter, 31, 075401 (2019)	2021
7	D. Haranath	National Innovative Research Excellence Award-2022 in Physics		Research	2022
10	Surya K. Ghosh	Associate Editor	Frontiers in Physics	Soft Matter section	
11	Vijay Kumar	Recognition for Work	OPTICA, USA	"Speckled-Based Recognition of OAM Modes" selected for Optics in 2022	2022

Special Lectures Delivered by the Faculty in Other Institutions:

S.No.	Faculty Member	Topic of Lecture	Institution	Date
1	Hitesh Borkar	Keynote Speaker at Workshop on "Recent Trends: Sensing in Agriculture"	Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar	June 24, 2023
2	Hitesh Borkar	Speaker at "International Conference on Frontiers in Materials Engineering (ICFME-2022)"	Department of Metallurgy Engineering and Materials Science, IIT Indore	December 14-16, 2022
3	Hitesh	Speaker at "IMF2023	Tel Aviv, Israel	March 26-30,

	Borkar	Meeting Secretariat"		2023
4	Vijay Kumar	Online Invited Talk at the 16th International Conference on Correlation Optics	Chernivtsi, Ukraine	September 18-21, 2023

Invited Lectures by External Experts:

1. Prof. P. Pradeep, Department of Physics, NIT Calicut, Tile of Talk : Organic Electronics and its Future Perspective, Date: 13-10-2022.
2. Dr. A. Radhamanohar Rao, University of Santiago, Chile, Tile of Talk : Ongoing research in the field of physics and opportunities for students" Date: 10-12-2022.

Student Awards/ Achivements:

Sl.No	Name	Achievement Details (Conference paper, best paper award, abroad visit)	Date(s)
1	Siju Mishra	Best presentation award in the 7th International Conference on Luminescence and its Applications (ICLA-2023) at CSIR-IICT, Hyderabad with a Cash PRIZE of Rs. 3,000/	July 3-6, 2023
2	M. Rakshita	Best Poster award at the 7th International Conference on Luminescence and its Applications (ICLA-2023) at CSIR-IICT, Hyderabad with a Cash PRIZE of Rs. 5,000/-.	July 3-6, 2023
3	Aachal A. Sharma	The appreciation cum merit certificate at the 7th International Conference on Luminescence and its Applications (ICLA-2023) at CSIR-IICT, Hyderabad.	July 3-6, 2023
4	Payal P. Pradhan	Best poster award at the International Seminar on Luminescence Materials (ISLM-2022) at Allepy, Kerala with a Cash Prize of Rs. 3,000/-.	July 3-6, 2023
5	M. Mohan Babu	Marie Curie Post Doc fellowship from Aalbog University, Europe	March 2023
6	Koustav Dey	Post Doc fellowship from University of Missouri, USA	April 2023

SCHOOL OF MANAGEMENT

Faculty and Their Activities:

Sl. No.	Name and Qualifications	Major Areas of Specialisation
	Professors	
1.	Prof. M Ravinder Reddy (NIT Warangal)	Economics, Agriculture Economics and Rural Marketing
2.	Prof. V.Rama Devi (Head) Ph.D. (Sri Krishnadevaraya University)	Organizational Behaviour, Human Resource Management, Gender studies
3.	Prof. P. Ramlal Ph.D. (Kakatiya University)	Human Resource Management, Organizational Behaviour, Psychological Testing, Soft Skills, Corporate Training
	Associate Professors	
4.	Prof. K.Francis Sudhakar Ph.D. (Osmania University)	Consumer Behavior & Services Marketing
5.	Prof. Lakshmi Tulasi Devi S Ph.D. (Acharya Nagarjuna University)	Corporate Finance, Financial Econometrics, Financial Technology, Risk Management, Sustainable Finance, Green Finance & Women Entrepreneurship.
6.	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
	Assistant Professors	
7.	Prof. Ramachandra Gopal P Ph.D. (IIT Kharagpur)	Operations Management, Supply Chain Management, Quality Management, Project Management
8.	Prof. Rahul Thangeda Ph.D. (NIT Warangal)	Marketing, Analytics

Journal Publications:

1. P. Karthik, V. Rama Devi, Assessment of Quality of Care in the Indian Healthcare Industry: The Employees and the Patients Perspectives, *Benchmarking – An International Journal, 2023,* https://doi.org/10.1108/BIJ-10-2022-0617.
2. P. Karthik, V. Rama Devi**,** High-Performance Work Systems and Employee Attitudes: Evidence from Indian Healthcare Industry, *International Journal of Productivity and Performance Management,2023,* https://doi.org/10.1108/IJPPM-08-2022-0393.
3. P. Karthik, V. Rama Devi, High-Performance Work Systems in Healthcare Industry: A Systematic Literature Review, *Management and Labour Studies*, vol 48, No. 4, pp. 578-606, *2023.*
4. P. Karthik, V. Rama Devi, Content Validity of Assessment Instrument for High-Performance Work Systems, *Journal of Nursing Measurement, 2023, DOI: 10.1891/JNM-2022-0034.*

5. P. Karthik, V. Rama Devi, Linking High-Performance Work Systems and Organizational Citizenship Behavior: The Mediating Role of Employee Attitudes in The Healthcare Industry. *The Journal of Health Management*, 2023. (*In press)*
6. D. Shanti Ratnam, V**.** Rama Devi**,** Addressing Impediments to HR Analytics Adoption: Guide to HRD Professionals, *Human Resource Development International*, 2023, https://doi.org/10.1080/13678868.2023.2195986.
7. Thota Surya Kiran, K. Francis Sudhakar, Habeeb Syed, Exploring Marketing Orientation of Employees in a Public Transport Organization: Evidence from Telangana State Road Transportation Corporation (TSRTC), *The British Journal of Administrative Management*, vol 58, No.151, 2022.
8. K. Thriveni, V**.** Rama Devi**,** An Empirical Study on Factors Influencing Job-Home Balance of Indian Women Employees. *International Journal of Work Organization and Emotion*, 2023. (***Accepted)***
9. K. Uttam, T. Rahul, Consumer behavior from the lens of Bottom of the Pyramid: literature review and future agenda, *Management Review Quarterly*, pp.1-31, 2023.

Conference Publications:

1. Kumar, S., Pasupathi, M., & Thangeda, R, "Gaining Competitive Advantage Using Human Resource Management in Indian Construction Industry", National conference on Advances in Construction Materials and Management, Singapore, December, 2023.

Sponsored R&D Projects:

Sl.No.	Investigators	Title of the Project	Funding Agency	Grant Value (INR in lakhs)
1.	V. Rama Devi	Predictors and Outcomes of Blended Learning Effectiveness in Higher Educational Institutions in India	ICSSR	4.,99
2.	V. Rama Devi	Women Safety Audit for Vijayawada City	National Commission for Women	6.48
3.	V. Rama Devi	Glass Ceiling for Women in Corporate Sector- Antecedents, Outcomes & Policy Measures	National Commission for Women	11.36

Short-term courses/workshops/seminars/symposia/conferences Organised by the Faculty Members:

Sl. No	Title	Dates	Scheme	Coordinators
1	Research Methodology course for research scholars	22nd September to 01st November,2023	ICSSR	P. Ramlal G. Sunitha

PhD Degree Awarded:

Sl.No.	Student Name	Thesis Title	Supervisor(s)	Month/year
1	T. Surya Kiran	Market Orientation and work performance of Employees of	K. Francis Sudhakar	May 2023

		TSRTC		

Honours and Awards Obtained by Faculty:

Sl.No.	Faculty Member	Award	Awarded by	Awarded For	Date/year of Award
1	V. Rama Devi	'Women in Industry and Academia Award	IEOM Society International		2023

Special Lectures Delivered by the Faculty in Other Institutions:

1.

S.No.	Faculty Member	Topic of Lecture	Institution
1	K. Francis Sudhakar	Customer Orientation	RTC staff training college, Warangal

Invited Lectures by External Experts:

1. Mrs. Jaspreet Kaur, councillor from KPMG, delivered a talk on "How to embark on career journey after MBA straight from first placement", 5th November 2023.
2. Mr. Ch. Mallesham, a Padma Shri Awardee delivered a Key note session during CURA 2023 on 18th February 2023.
3. Dr. T. Krishnan, Director IIM Bangalore delivered a talk during CURA 2023 on 18th February 2023.
4. Mr. Dasarath Rawani a senior manager of personal and administration section of Steel authority of India delivered a talk on decision making skills.

Student Activities:

1. A national level management fest "CURA", 17th and 18 February 2023.
2. Classroom cleanliness drive by the students in the context of social outreach activities.

DEPARTMENT OF PHYSICAL EDUCATION

Faculty and their Activities:

Sl. No.	Name and Qualifications	Major Areas of Specialisation
1	Prof. Dhayanithi R. (Head) PhD (NIT Warangal)	Games - Athletics and Basketball Theory -Training Methods
2	Prof. Madhusudhan Reddy P. PhD (Pt.Ravi Shankar Shukla University, Raipur)	Games-Volleyball and Tennis Theory- Sports Psychology
3	Prof. Ravi Kumar P. Ph.D (Sri Krishnadevaraya University)	Games - Football, Yoga and Cricket. Theory- Exercise Physiology, Kinesiology and Sports Biomechanics

INTERNATIONAL RELATIONS AND ALUMNI ACTIVITIES

1. Details of Distinguished alumni awards

The following are the awardees of **"Distinguished Alumnus Awards for the year 2022"**

S. No.	Photo	Name of the Alumnus	Batch and Branch	Present Position
Alumnus Lifetime Achievement Award				
1.		Dr. Paruchuri Gangadhar Rao	1974 B.Tech (Chemical Engineering)	Honorary Director, Bitchem Asphalt Technologies ltd., Guwahati
Distinguished Alumnus Award for Professional Excellence (DAAPE)				
2.		Shri. Shankar Srinivasan	1964 B.E. (Mechanical Engineering)	Established the following companies Precision Controls (brand name "PRECONS") Opulent Ventures Pvt.Ltd. Opulent Green Energy Pvt.Ltd. Opulent Wind Energy Pvt.Ltd.
3.		Shri. Durga Prasad Allada	1984 M.Sc -Tech (Engineering Physics)	CTO & VP Tech Mahendra, Hyderabad
4.		Shri. P. Venkata Ramana	1984 B.Tech. (ECE)	Additional Director General Indian Railways Institute of Signal Engineering & Telecommunications, Hyderabad

5.		Prof. K. Sivakumar	2006 M.Tech. (PE&D)	Professor, Department of EE, IIT Hyderabad
Distinguished Young Alumni Award for Professional Excellence (DYAAPE)				
6.		Dr. Naga Vara Aparna Akula	2008 B.Tech. (EEE)	Principal Scientist at CSIR-CSIO, Chandigarh, India
Distinguished Alumnus Award for Public Service (DAAPS)				
7.		Shri. C. J. Venugopal, IAS	1984 B.Tech. (Civil Engineering)	Addl. Chief Secretary & Chief Administrator, KBK Government Of Odisha
Distinguished Young Alumnus Award for Public Service (DYAAPS)				
8.		Shri. Rahul Deo	2014 B.Tech. (Civil Engineering)	Collector & District Magistrate Mungeli, chhattisgarh
Distinguished Alumnus Award for Public Service (DYAAPS)				
9.		Shri. Venu Nuguri	1988 B.Tech. (EEE)	- Managing Director & CEO, Hitachi ABB Power Grids in India - Head of South Asia Region, Hitachi ABB Power Grids - Member of Executive Committee, Hitachi ABB Power Grids Ltd, Zurich

The following are the awardees of **"Distinguished Alumnus Awards for the year 2021"** and the distribution of awards held on 10th October, 2022 along with 2022 awardees.

S. No.	Photo	Name of the Alumnus	Batch and Branch	Present Position
Alumnus Lifetime Achievement Award				
1		Dr. V A Sastry	B.E. (Electrical Engg.) - 1964	Founder Director, Musa software Engineering Pvt. Ltd, Bangalore Karnataka
Distinguished Alumnus Award for Professional Excellence (DAAPE)				
2.		Dr. Vemana Venkateswara Rao	M.Tech (Thermal Engg.) – 1985	Outstanding Scientist & Director ARDE (DRDO), Pune
3.		Prof Kishore V. Pochiraju	B.Tech (Mech) - 1986	Associate Dean for Undergraduate Studies, Charles V. Schaefer School of Engineering, Stevens Institute of Technology, Hoboken, NJ
4.		Prof. Anand Swamynathan	B. Tech (Mech) – 1982	Goizueta Professor of Organization and Management, Goizueta Business School, Emory University, Atlanta, Georgia

5.		Dr Ramesh K Dontha	B.Tech (Mech) – 1986	Founder & Managing Partner, Digital Transformation Pro, USA
6.		Prof. Venkateswara Rao Paruchuri	B.Tech (Mech) – 1984	Dean Planning, Indian Institute of Technology Delhi, New Delhi
7.		Shri. Ganesh Sahay	B.Tech (Electrical Engg.) - 1990	Divisional Railway Manager, Chennai, Indian Railways
8.		Dr. Sarala Menon	B.Tech (Chemical) - 1983	Executive Vice President, Mfg. and Product Supply Chain , Colgate Palmolive India Ltd
Distinguished Young Alumni Award for Professional Excellence (DYAAPE)				
9.		Dr. Pushmeet Kohli	B.Tech (CSE) - 2004	Principal Scientist and Team Lead, DeepMind, London, UK

10.		Ms. Pavithra Prabhakar	B.Tech (CSE) - 2004	Professor, Kansas State University, Manhattan, United States
Distinguished Alumnus Award for Public Service (DAAPS)				
11.		Shri. V.Siva Kumar, IPS	B.Tech (Civil) - 1984	Promoted as Deputy Inspector General of Police in the year 2019 and presently working in Intelligence, Telangana.
12.		Shri. Venkata Rama Sastry Pidaparthi	B. Tech (Mech) - 1986	Indian Police Service (IPS) as Additional Director General, Border Security Force, New Delhi

CENTRAL RESEARCH INSTRUMENTATION FACILITY (CRIF)

STUTI Training Programs: 33 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). Around 1000 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 tools.

S. No.	Dates of the Training Program	Theme	Venue of the program
1.	19-25 July,2022	Structural Identification of Compounds by Analytical Techniques	National Institute of Technology, Warangal
2.	8-14 August,2022	Characterization using sophisticated Instruments	Visvesvaraya National Institute of Technology, Nagpur
3.	16-22 August, 2022	Characterization of Materials/Compounds by using Advanced Instruments	Osmania University, Hyderabad
4.	22-28 August, 2022	Learning the Technology and Applications of DST Sponsored Advanced Instruments	Pt. Ravishankar Shukla University, Raipur
5.	22-28 August, 2022	Instrumental Methods of Material Analysis	Sri Venkateswara University, Tirupati
6.	19- 25 September, 2022	Learning the Technology and Applications of DST Sponsored Advanced Instruments	National Institute of Technology, Jalandhar
7.	21-27 September, 2022	Modern Spectroscopic, Thermal and Microscopic Techniques	Defence Institute of Advanced Technology, Pune
8.	21-27, September, 2022	Advanced Characterization Techniques for Chemical Scaffold	Guru Nanak Dev University, Amritsar
9.	7-13, December,2022	A One week Training Program on High-End State of the art Scientific Equipment	Banaras Hindu University, Varanasi
10.	9-15 November, 2022	A One week Training Program on Environmental Monitoring Using Advanced Analytical & Molecular Tools	Bharathidasan University, Tiruchirappalli
11.	30th Nov- 06th Dec,2022	A One Week Training Program on Advanced Research Instruments	National Institute of Technology, Warangal
12.	18 - 24 Jan,2022	Analytical Techniques using Advanced Research Instruments and it's applications in Environmental Science	Osmania University, Hyderabad
13.	04- 10 Jan,2023	Advanced Fabrication and Characterization Techniques on Nano-materials	Sathyabama Institute of Science and Technology, Chennai
14.	04- 10 Jan,2023	A One week Training Program on R&D Equipment	Mangalore University

15.	19 - 25 Jan,2023	A One week Training Program on Evaluation of materials properties under dynamic loading	NIT Warangal
16.	30th Jan - 05th Feb,2023	A one week training program on R&D Equipment	VIT Vellore
17.	06 - 12 Feb,2023	A one week training program on R&D Equipment	NIT Jalandhar
18.	08th - 14th Feb,2023	Hands-on training on Sophisticated Instrumentation Techniques	Central University of Tamil Nadu, Thiruvarur
19.	30 Jan - 05th Feb,2023	Advanced Material Characterization	NIT Tiruchirappalli
20.	10 - 16 March,2023	A One Week Training Program on R&D Equipment	NIT Warangal
21.	11- 17 April,2023	Characterization of Materials/Compounds by using Advanced Instruments	IIT Delhi
22.	15- 21 April,2023	Hands on training on drug discovery & formulation development	Acharya Nagarjuna University Guntur
23.	25th April - 1st May,2023	Spectrometric Analysis and Imaging of Biological Samples	Banaras Hindu University Varanasi
24.	26th April- 02 May,2023	A One Week Training Program on R&D Equipment	Sathyabama Institute of Science and Technology Chennai
25.	28th May,2023	A One Week Training Program on R&D Equipment	NIT Warangal
26.	25- 31 May ,2023	Hands on Training Program on the applications of Advanced Research Techniques by using Sophisticated Instruments in life Science	Osmaina University,Hyderabad
27.	05- 11 June, 2023	Understanding of Weather, Climate and their Interaction with Oceans	Andhra University, Visakhapatnam
28.	21- 27 June ,2023	Exploring the Science with Sophisticated Instruments	Central University of Tamil Nadu, Thiruvarur
29.	14 - 20 June ,2023	Advance Instrumentation for Earth and Environmental Sciences	National Geophysical Research Institute, Hyderabad
30.	22- 28 June ,2023	Advanced Characterization Techniques with sophisticated instruments	Anna University, Chennai
31.	20 - 26 June ,2023	Advanced Research Instrumentation Theory and Practice	NIT Warangal
32.	22 - 28 June, 2023	Hands-on Training on Photonic devices, DFT Calculus and R&D Equipment	Bannari Amman Institute of Technology, Sathyamangalam, Erode, Tamil Nadu
33.	21- 27 June ,2023	Advanced Analytical Testing for Material Characterization	National Institute of Technology, Tiruchirappalli

I-STEM One-month skill development program:
A one-month skill development program was conducted to unemployed youth in and around Warangal under I-STEM skill India program. **10 participants** were rigorously trained on various facilities at CRIF **during December 2022**. This program was funded by I-STEM, IISc, Bangalore.Operation and maintenance aspects of the various sophisticated instruments were taught to them by the Technical Officers and two of the participants were selected and worked as Trainee Interns at CRIF for a period of 3 months from Jan-Mar 2023 with the fellowship from I-STEM.

One-Week Skill Development Program:
A one-week skill development program was conducted **in March 2023** by I-STEM Trainee interns under the supervision of Technical Officers and **5 unemployed** youth were trained under this program on operation and maintenance aspects of several facilities at CRIF.

Tools Training Centre:
A Tools Training Centre Laboratory was established with the written off research equipment.The motto of this Laboratory was to physically unscrew and open up the written off equipment and explain to the participants how the Old Technology was used to make the instrument working.This will encourage the participants to gain the knowledge and to make innovation in the respective research areas.
A demonstration and training was conducted during the one month training programme for one week for I-STEM participants.

Skill Development Training under CRIF Research Acquaintance and Nurturing Training Initiative (CRANTI @ NIT Warangal)
A Three-Days Skill Development Training under CRIF Research Acquaintance and Nurturing Training Initiative (**CRANTI @ NIT Warangal**) was conducted by Technical Officers Mr. Harish Madupu and Mr. D Ravikumar and Six PG Students of Kakatiya University were trained on SEM, LC-HRMS, ICP OES, FTIR, and UV-Vis-NIR Spectrometer at Central Research Instrumentation Facility, NIT Warangal from 25th May, 2023 to 27th May, 2023.

Online Talk to Experts program on Sophisticated/Analytical equipment organized by I-STEM during April 2023.
1. Dr. TK Sai, PSO, has delivered an online talk on **Industry 4.0.**
2. Mr. Harish Madupu, Technical Officer, has delivered an online talk on **LC-HRMS**.
3. Mr. D. Ravikumar, Technical Officer, has delivered an online talk on **ICP-OES**.

Laboratory Course to B.Tech students:
BT407 Instrumentation & Analytical Methods in Biotechnology Lab to IV year B.Tech BioTech students was conducted by Technical Officers Mr. Harish Madupu and Mr. D Ravikumar on LC-HRMS, ICP-OES, UV-VIs-NIR Spectrophotometer, NMR Spectroscopy, XRD and SEM instruments.

Workshop on PCB Prototype Machine:
Three hands-on workshops (**23rd-24th Jan 2022, 23rd-24th Feb 2022, 26th-27th Feb 2022**) were conducted to ECE and EEE students of SR University on a PCB prototyping machine housed at CRIF. About 150 students were demonstrated and trained on the various types of circuit making and PCB prototyping on software and hardware tools.

Biometric Facial recognition based Attendance system
On 19th October 2022 facial Biometric based Attendance system was inaugurated by then Director Prof. N V Ramana Rao at CRIF. A total of 23 units were installed across all departments, centres and offices of the institute.

New equipment installations:
Radio Frequency & Millimeter Wave Research Laboratory was established with an Anechoic chamber of 3m X 3m X 2.6m, a Vector Network Analyzer and a Spectrum Analyzer with a frequency range up to 43.5GHz on 1st July, 2022
PCB prototyping machine facility was commissioned on 19th Oct,2022 . Demo and training was given to 25 M.Tech and Research Scholars for two days**.**
Liquid Nitrogen Generation plant was commissioned on 17th November 2022 to cater to the needs of the institution and nearby users.

Lecture and demo on PCB Prototype Machine for B.Tech. First year interns (RGUKT):
A Lecture and Demonstration on PCB Prototype machine with EAGLE software was done by Mr. V Sudhakar, Technical Officer to a total of 50 students from RGUKT Basar attended an internship programme under Joy of Electronics Course.

Major Equipment / Instruments Procured

S.No	Department	Description	Value, (INR)
1.	Electrical Engg.	Rapid Control Prototyping (RCP) System	14,91,221
2.	Electrical Engg.	FTIR Spectrometer	29,85,400
3.	Electrical Engg.	Industrial plant emulator	27,04,134
4.	Civil Engg.	IBM SPSS Statistics	16,00,000
5.	Civil Engg.	24-Channel Seismograph with allaccessories	20,65,000
6.	Physics	Zeta & Particle Size Analyser	27,95,404
7.	Computer Science & Engg.	Nvidia DDR4 SDRAM with ECCAMD EPYC 7742 Ai System	99,82,363
8.	CRIF	Spectrum Analyzers	28,87,500
9.	CRIF	PCB Prototype & Antenna Design Machine	15,70,627
10.	Biotechnology	Refrigerated Centrifuge with all rotors and accessories	12,39,000
11.	Biotechnology	CO_2 Incubator With Accessories	12,60,000
12.	Biotechnology	-80 ^oC Deep Freezer with accessories	10,83,600
13.	Biotechnology	Bioreactor System with Accessories	16,19,000
14.	Biotechnology	Bioreactor system with accessories	19,10,420
15.	Biotechnology	Multimode Microplate reader with accessories	20,90,735
16.	Electronics & Communication Engg.	Mixed Signal Oscilloscope	11,97,000
17.	Electronics & Communication Engineering	Anechoic Chamber	15,60,320
18.	Mechanical Engg.	Synchro Feed II Robotic Welding System	56,79,690
19.	Metallurgical & MaterialEngg.	Upright Metallurgical Microscope	14,56,788
20.	Metallurgical & MaterialEngg.	AMC, Servicing , Technical Inspection, Calibration of Creep Testing Machines	38,23,200
21.	Physics	Supply, Installation & Commissioning of 'High Sensitivity Fluorescence Spectrophotometer with Accessories'	
22.	Chemistry	Multi-Channel BI-PotentiostatElectrochemical Workstation	13,25,000

Student Activities

Chemical Engineering

1. Technozion, 16-18 December 2022.
2. Schemcon-2022, 23-24 September 2022**.**

Chemistry

1. Students and faculty of Department of Chemistry have actively participated in Sports week organized by Chemistry Society duringr 14-16th April'2023
2. Industrial visit to Mylon Laboratories by M.Sc. II year Chemistry students along with faculty from Chemistry Society on 22-04-2023 along with Prof. Kashinath, HOD, Prof. M. Raghasudha, Faculty Advisor, Prof. Mukul Pradhan
3. Awareness rally on Worlds Ozone day on 16 September 2022.
4. Guidance on Internship Opportunities on 28th September 2022.
5. A student activity "Make your Molecule" during Technozion 2022 on17th December 2022.

Civil Engineering

1. Guest Lecture – Midas (Introductory Session On Midas Civil For Bridges & Midas Fea Nx For Detailed Non-Linear Analysis)
4. Ideathon
5. Chai Pe Charcha
6. Fresher's Event
7. Etabs Workshop
8. Pinnacle Stories- Anamika
9. Pinnacle Stories – Vikram10.Webinar – Al & Chat Gpt
11. Guest Lecture – Dr. Keshava Reddy

Computer Science and Engineering

1. Conducted events in Technozion from Dec 16, 2022 to Dec 18, 2022.
2. CSEA conducted a basketball competition on Jan 23, 2023.
3. CSEA conducted a badminton competition on Jan 24, 2023.
4. Conducted a DSA Webinar in partnership with GeeksForGeeks.
5. CSEA organized a two-day hackathon (Devathon) in collaboration with WSDC NIT Warangal.
6. Conducted an open source workshop, a meticulously drafted Workshop on Git and GitHub.
7. Conducted Design-A-Thon, Acing the intern drive, Out of the box thinking, 2+4 mixer Chronocode, in collaboration with ACM NIT Warangal Chapter (Sponsored by Chronus Software Private LTD).

Electrical Engineering

1. Faraday Memorial Lecture held on 22-09-2022
2. Restoring Minds held on 10-10-2022 Restoring Minds is an Initiative by EEA for helping out people who need little help for their mental health well-being.
3. EEA organised a session named "KNOW OUR FACULT" with Prof. N. Subrahmanyam sir of Electrical Department to provide students with a chance to interact with the professors they learned subjects from and professors of their parent department about their life experiences, hardships they faced, the advancements in methodologies and technologies they witnessed and their career. This event

was held on 18/10/2022.

4. Guest lecture on "Future trends in power flow controllers – opportunities and Challenges" by Kalan K. Sen was held on 20-10-2022.
5. Placement and Internship Experience Series was held from 06-11-2022 to 22-07-2023
6. Industry Visit by B.Tech 4th year on 14-11-2022
7. Industry visit by Mtech Students on 19-11-2022
8. Ode of Gratitude was held on 25-11-2022 is the initiative started this year by EEA for presenting our gratitude.
9. Freshers' ROADMAP was held on 14-12-2022
10. Industry Visit for 3rd year BTech EEE on 1-04-2023. BTech 3rd year students were taken to Srisailam Dam Hydro power plant
11. Expert talk on "emerging research trends in EV Technologies and batter Charging" on 12-01-2023.This expert lecture was delivered b Prof. G. Bhuvaneswari of Mahindra University.

Electronics and Communication Engineering

1. A two day workshop on "Research paper writing using LaTeX" by D. Suneel Varma, S. Sreenu, and Prantik Dutta, 16-17th June, 2022, online mode, participants: 60
2. Technical lecture on "Quantum computing as applied to array antenna analysis and synthesis" by Prof. P. Rocca, 27/07/2022, online mode, participants: 46
3. Lecture on "Role of Intellectual property rights in the Academia", by Prof. L. Anjaneyulu, 27/08/2022, online mode, participants: 45
4. Workshop on "An Overview of Networking In Arduino Vehicles" by Venkateswara Chowdary, 17 February 2023, participants:120 (20 IEEE, 100 non-IEEE).
5. Workshop on "Unconventional Array Design for New 5G Communications and Beyond" by Dr. Paolo Rocca, 24 February 2023, participants: 30 (12 IEEE, 18 non-IEEE).
6. Workshop on "NASA Technologies for Space Exploration" by Prof. Goutam Chattopadyay, 15 March 2023, 127 (30 IEEE, 97 non-IEEE)
7. Workshop on " MM-WAVE SENSORS FOR DETECTION OF POLLINATING INSECTS" by DR. ADAM NARBUDOWICZ, 26 April 2023, participants:31 (11 IEEE, 20 non-IEEE)
8. Workshop on " Net-zero Energy Harvesting and Battery-free Electronics using Rectenna Technology" by Dr. Chaoyun Song, 18 May 2023, participants: 40 (15 IEEE, 25 non-IEEE)
9. Workshop on " Skin Cancer detection: Feasibility Study across the Microwave " by Dr. Syed Naqvi, 7th June 2023, participants: 37 (16 IEEE, 21 non-IEEE)
10. Workshop on " Why Shockley Wrong?" by Dr. Pragyan Chakravorthy, 7th October 2023, participants: 35 (15 IEEE, 20 non-IEEE)
11. Workshop on Periodic and Non Periodic Structure Based 5G Antennas by Dr. Akhilesh Verma, 27th October 2023, participants: 25(15 IEEE, 10 non-IEEE).
12. Workshop on Confluence of Electromagnetics, Circuits and Systems Enables the Third Wireless Revolution, 30th October 2023, participants: 20 (12 IEEE, 8 non-IEEE).
13. The Association started its academic year with the event 'Project Pitch' on October 11, 2022.
14. Webinar on" Latest Communication Technologies "hosted by the ECEA, as part of the Technozion fest, the webinar featuring Dr. Niraj Nanavaty, Head of Specifications and Engineering at Nokia. December 18th, 2022

15. Mr Venkat Rajaraman, CEO of Cygni Energy, has given a guest lecture on Electric Vehicles in our technical fest, Technozion: December 16, 2022
16. The Arduino and IoT workshop was an enlightening and hands-on event that aimed to introduce participants to the world of Arduino and its applications in the Internet of Things (IoT) domain Date: April 2, 2023.

Mechanical Engineering

Event Name	Description
1. Inaugural	Inaugural of the Mechanical Engineering Association
2. Diwali Trivia	Online quiz regarding the history related to diwali.
3. Abhyaas (Part 1 & 2)	Mock tests consisting of aptitude and core related questions to help students get acquainted with the online tests conducted during placements.
4. Guest talk by *Dr.Nagabhushana Rao*	An interactive session with Dr.N.R.Vadlamani, currently serving as an Assistant Professor in the Department of Aerospace Engineering in IIT Madras and an alumnus of NIT Warangal. He discussed about opportunities available to pursue Ph.D. from IIT Madras, JDP (Joint Doctoral Program) from multiple universities as well as establishing collaborations between NIT Warangal AND IITM.
5. Career chat	Consolidate the experiences of placed and interning students in different companies as social media posts, to help juniors to prepare and plan while attending the further interviews
6. Quinotos	A quiz related to the automobiles and its industry to create awareness of a core topic of mechanical engineering
7. Neon cricket	The legendary game of cricket conducted in a dark room with bats, balls, wickets covered with neon tapes so that they glow in the dark making them visible to play in the dark
8. Know your branch	An insight into mechanical engineering and its opportunities at NIT Warangal for the incoming first years by 3rd and final years of B.Tech, Mechanical.
9. Research Talk with Wise Up Communications (23rd Jan 2023)	An online event on "How to Write and present your research" by Ms Neha Agrawal, Founder of WiseUp Communication.
10. Meshers	The freshers event for mechanical engineering first year students to build interaction among them and the rest of MEA. It consisted of some fun and challenging events where it was also a method of recruiting best performing first year students
11. Hoodie design contest	A contest for creative students to design a hoodie for mechanical engineering.
12. Study abroad – Live session	An interactive event on "Studying Abroad: How to Get Your Admit". Included in this session:

		-Build a strong profile -Choose the right universities -Understand application process -Write quality SOPs & LORs
13.	Inter branch quiz	A quiz held for each department with the help of the concerned branch association in collaboration with quiz club
14.	Resume review	An event to review the resumes of third and second years by the final years of B.Tech Mechanical Engineering to help them improve their resumes.
15.	Placement talk	An event in association with CCPD, to create awareness among students about: Career Options - profiles, skills and personal experience, overall statistics, general Placements and Internships procedure.
16.	Career opportunities talk (collaboration with ACE academy)	A Career Guidance program where the webinar aims to be an insightful session into the various career opportunities available in the field of mechanical engineering and help students plan their career paths. This session was hosted by renowned speaker M.M.Trinath, who will be sharing his expertise on the current job market and the skills required to succeed in the industry. This is to provide the students an opportunity to interact with the speaker and ask questions about their career aspirations.

Metallurical and Materials Engineering

1. Techno-Zion, 16-18 December, 2022.
2. Neophytes Night Arranged as a part of fresher's well come by Metallurgical and Materials Engineering Association.
3. 82 studentds (M.Tech and B.Tech) visited Nava Bharat Ferro Alloys plant accompanied by professors, 23 March 2023.

Physics

1. Physics Society has initiated Research scholar's Weekly Lecture series, which is successfully continuing till now.
2. Physics Society organized sports events such as Badminton and cricket tournaments for the benefit of students and faculty members of Physics Department.
3. Physics Society organized sports events such as Badminton and cricket tournaments for the benefit of students and faculty members of Physics Department.
4. Physics Society team has participated in the "Technozion" events, NIT Warangal and organized the demonstration of various science experiments to the school children, conducted Debate Competition (Clash of words) on "Are Electric Vehicles really Environment Friendly?" and also presented Interactive models demonstrating various models and engaging students in insightful discussions. The event attracted

students from diverse backgrounds, including remote and urban areas of Warangal.

School of Management

1. A national level management fest "CURA",17th and 18 February 2023.
2. Classroom cleanliness drive by the students in the context of social outreach activities.

EK BHARAT SHRESHTHA BHARAT YUVA SANGANGAM SEASON-II

A VISIT OF TELANGANA CONTINGENT TO UTTARAKHAND

The Central government has initiated the yuva Sangam program under Ek Bharat shreshth Bharat. As part of this program the students of Telangana have started to Uttarakhand on 27th April. For this program, NIT Warangal is the nodal Institute from Telangana state. Similarly IIT Roorkee is the nodal Institute from Uttarakhand. A total of 641 students have registered in the Yuva Sangam season-2 portal for this program from various districts from all over the state of Telangana. From this, 45 students have been selected by the selection committee including Prof. Ravikumar Puli, Dean, Student Welfare, Factulty inchrges, EBSB, Dr. B. Srinivas and Dr. M. Raghasudha and others from NIT Warangal. Among these 45 students, there were 23 boy students and 22 girl students. In this delegation UG degree, PG degree, Engineering, Indian school of business, pharmacy, Nehru Yuva Kendra, E-Commerce students were present. IIT Roorkee is the host institution for the Telangana delegates.



At IIT Roorkee



At Everest Industries



At Ambuja Cements







Telangana cultural programs 'Batukamma' and folk dances by Telangana students

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<td>
Students at 55 years old ‘’Sampoornanand Telescope’’.</td>
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At supercomputer ‘’Param Ganga’’</td>
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At a school in a village</td>
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At Haridwar</td>
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Perini Lasyam during Valedictory</td>
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<td colspan="3">Telangana Today
Telangana students’ delegation for IIT Roorkee
STATE BUREAU
Warangal
A delegation of 45 students representing NIT-Warangal, Osmania University, ICFAI Business School in Hyderabad, Vidya Jyoti Institute of Technology, University of Hyderabad and other prominent higher education institutes from the State have left for IIT Roorkee, as part of the Central government’s cultural and educational endeavour the ‘Ek Bharat Shreshtha Bharat Yuva Sangam’ programme under the phase-2.
NIT Warangal is the nodal institute for this trip. Dean, NITW, Prof Puli Ravi Kumar flagged off the yatra here on Thursday. The delegate members will stay in Uttarakhand from April 29 to May 4 to understand the culture and traditions of the region.
They are accompanied by four faculty members. As a part of this tour, the students will be meeting prominent leaders and change makers including the Governor of Uttarakhand and Minister of Education of the State besides artists, singers, sportspersons and an interaction with the local communities. The students will also get an exposure to TIDES Incubator, BioNEST Incubator, Tinkering Lab, Institute Instrumentation Center and Rock Museum.
Their itinerary also includes a detailed tour of diverse facilities at the IIT Roorkee campus, a trip to Nainital, Haridwar and Rishikesh to experience the rich culture, history, mythological legends and heritage of the hill State and get a close exposure to the local culture, cuisine and scenic beauty of Uttarakhand.
B Srinivas, Nodal officer, Yuva Sangam, said, “We are hopeful that this trip also opens doors to some ideation, brainstorming and catalyses these youngsters into making some path breaking choices for them.” The first phase of Yuva Sangam was launched this February, and it concluded on a successful note.

NIT Warangal Dean Professor Puli Ravi Kumar flagging off the Yuva Sangam tour to Uttarkhand on Thursday.
The delegation will stay in Uttarakhand from April 29 to May 4 to understand culture of the region
29/04/2023 Telangana Pg 04</td>
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A VISIT OF UTTARAKHAND CONTINGENT TO TELANGANA

The Uttarakhand delegates of 49 have visited various places of Telangana from NIT Warangal during 16th-22 May 2023. on 16th May 2023.

 Uttarakhand delegation Warangal railway station on 16th May 2023	 A grand welcome by the Director NIT Warangal to Uttarakhand Delegates	 Traditional welcome by the NIT Warangal students
 Students at Ramappa temple	 Students at Sammakka-Saralamma temple	 Students enjoying at Laknavaram Lake
 ''Meet the Director'' program has been inaugurated by Prof. Bidyadhar Subudhi, Director, NIT Warangal.	 Uttarakhand students' dance performance reflecting their culture	 Students at Parvathi (Sundilla) Barrage
 Parvathi pump house	 Students at Nandi pump house	 T-HUB, Hyderabad

 T- HUB, Hyderabad	 Students at Golconda Forte, Hyderabad	 Students at Golconda Forte, Hyderabad
 Uttarakhand students with school children at Muddunuru village	 A student from Uttarakhand delegation Ms. Naval Preet Kaur participated in interaction with minister session.	 Students enjoying at historical monument Charminar at Hyderabad
 Students visited Ambedkar statue at Hyderabad	 Honourable Governor of Telangana Dr. Smt. Tamilisai Soundararajan addressing the students	 Governor madam dances with the students
 Governor madam, faculty and students watching the dance performances	 Group photo with Governor madam	 Certificate presentation to the students



Students at Thousand Pillar Temple in Warangal



Students at Bhadrakali Temple in Warangal

Telangana Today

Uttarakhand students visit TS

STATE BUREAU
Warangal

A group of 45 students representing various educational institutions in Uttarakhand, including Indian Institute of Technology (IIT) Roorkee, visited the UNESCO heritage site Ramappa temple, located at Palampet in Mulugu district, near here on Wednesday. They arrived at National Institute of Technology (NIT) Warangal as a part of the second phase of the government's 'Ek Bharat Shreshtha Bharat YuvaSangam' initiative, aimed at promoting cultural and educational exchange.

The delegation, accompanied by four faculty members, will be staying in Warangal until May 22, engaging in a range of activities that has bee designed to foster understanding and collaboration between the two States. The National Institute of Technology Warangal serves as the nodal institute for Telangana, while IIT Roorkee represents Uttarakhand in this programme.

They are also scheduled to visit the Bhadrakali temple, the Kaleshwaram Lift Irrigation Project, and Dr. Reddy's Labs, gaining insights into various aspects of technology, culture, and innovation.

18/05/2023 Telangana Pg 05

Ministry of Education
21h

Students from Uttarakhand are exploring the wonders of Warangal, Telangana! Their tour includes visits to the awe-inspiring Ramappa Temple (UNESCO World Heritage site), Sammakka-Saralamma Temple, Laknavaram, Thousand Pillar Temple, and Bhadrakali Temple.

#YuvaSangam #EkBharatShreshthaBharat Yuva Sangam AICTE
Dharmendra Pradhan Dr. Subhas Sarkar
Rk. Ranjan Singh Annapurna Devi
NIT Warangal



Recognizing Telangana's Cultural Heritage: A Global Perspective by NIT Warangal Director Prof. Bidyadhar Subudhi

Bureau chief warangal may 17

Telangana's cultural heritage is globally recognized Director of NIT Warangal Prof. Bidyadhar said .today a meeting was arranged with the director at Ambedkar Learning Center. NIT Warangal Director Prof. Bidyadhar Subudhi was the chief guest and welcomed the representatives of Uttarakhand state and said .that it reflected the heritage and culture of Telangana. He said that the Government of India has undertaken this good program to promote cultural exchange between the states and that it will promote harmony and respect for each other's culture.He wished them to have a pleasant time during their tour. Reddy, Dean I/c Student Welfare, S. Govardhan Rao, Dr. M. V. Sunil Krishna, Nodal Officer, IIT Roorkee Dr.Rahul PRO NIT were present



Telangana's cultural heritage is globally recognized

NIT Warangal Director Professor Bidyadhar.

Bureau chief warangal may 17: Telangana's cultural heritage is globally recognized Director of NIT Warangal Prof. Bidyadhar said .today a meeting was arranged with the director at Ambedkar Learning Center. NIT Warangal Director Prof. Bidyadhar Subudhi was the chief guest and welcomed the representatives of Uttarakhand state and said .that it reflected the heritage and culture of Telangana. He said that the Government of India has undertaken this good program to promote cultural exchange between the states and that it will promote harmony and respect for each other's culture.He wished them to have a pleasant time during their tour. Reddy, Dean I/c Student Welfare, S. Govardhan Rao, Dr. M. V. Sunil Krishna, Nodal Officer, IIT Roorkee Dr.Rahul PRO NIT were present as guests.





Volunteered at Exhibition, Pragathi Maidan, New Delhi, from 29-30th July 2023

Two students of NIT Warangal Mr. V. Ruthwik and Mr. Revanth (II-B.Tech., Mechanical) along with Nodal officer, Dr. B. Srinivas have attended the Exhibition organized during 3rd Anniversary of National Education Policy (NEP) and volunteered at Pragathi Maidan, New Delhi and were present at the speech of Honourable Prime Minister Sri. Narendra Modi and met with Cabinet Minister of Education Mr. Dharmendra Pradhan.

 Prime Minister Sri. Narendra Modi at Pragathi Maidan, New Delhi	 PM addressing the gathering at Bharat Mandapam, Pragathi Maidan
 With cabinet minister of education, Sri. Dharmendra Pradhan	 With our Director Prof. Bidyadhar Subudhi
 With Prof. our Director and Dr. Ravindra Soni, Advisor, AICTE	 With our former Director, Prof. N. V. Ramana Rao

CULTURAL EXCHANGE PROGRAM HELD AT NIT KURUKSHETRA DURING 10TH-15TH SEPT 2022

Ek Bharat Shrestha Bharat (EBSB) program was initiated with a collective vision to celebrate the unity in diversity of our nation; and to ignite the sense of togetherness among the diverse set of communities, religions and ethnicities of India. To foster the spirit of EBSB, 54 students from NIT Warangal along with EBSB Faculty In charge, Dr. B. Srinivas, and Sports officer, N. K. Singh visited NIT Kurukshetra (NITKKR) Haryana, and participated in cultural exchange programs from 10th to 15th September 2022. The main objective of this activity was to groom our students as responsible citizens with deep belief in Unity in diversity of the nation.

 NIT Warangal students with Honourable Governor of Haryana Sri. Bandaru Dattatreya garu	 NITW Girl student performing a classical dance	 NITW students Telangana cultural dance at Rajbhavan
 Girl students of NITW with Sri. Bandaru Dattatreya garu	 Football team of NITW with Sri. Bandaru Dattatreya garu	 Students and Faculty Incharges of EBSB at ‘’Abhimanyupur’’ village
 Certificate presentation of Poetry winner of NITW student NIT Warangal Dean, Student Welfare Prof. Ravi Kumar Puli and Director NITKK are presenting	 Students with Faculty Incharges at historical holi place ‘’Brahmasarovar’’	  Telangana’s famous Bonalu festival ‘’Peddapuli’ dance by NITW students

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL

ANNUAL ACCOUNTS FOR THE YEAR 2022-23

NATIONAL INSTITUTEOF TECHNOLOGY, WARANGAL

CONSOLIDATED BALANCE SHEET AS AT 31-03-2023

(Amount in Rupees)

SOURCES OF FUNDS	**SCHEDULE**	**Current Year**	**Previous Year**
Corpus / Capital Fund	**1**	8,422,114,459	7,454,140,780
Designated / Earmarked / Endowment Funds	**2**	1,174,265,506	1,018,386,229
Current Liabilities & Provisions	**3**	401,375,414	516,153,073
TOTAL	**(0)**	**9,997,755,379**	**8,988,680,081**
APPLICATION OF FUNDS			
Fixed Assets	**4**		
-- Tangible Assets		4,543,619,533	4,397,266,611
-- Intangible Assets		45,477,493	40,384,757
-- Capital Work in progress		215,646,606	-
Investments	**5**		
-- Long Term		-	-
-- Short Term		783,258,537	742,624,039
Investments - Others	**6**	-	-
Current Assets	**7**	3,822,673,723	3,415,410,500
Loans, Advances & Deposits	**8**	587,079,486	392,994,174
TOTAL		**9,997,755,379**	**8,988,680,081**
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 2023

Income	SCHEDULE	Current Year	PreviousYear
Academic Receipts	**9**	476,407,200	466,009,899
Garnts / Subsidies	**10**	2,314,093,699	1,877,979,000
Income from Investments	**11**	167,448,883	117,625,081
Interest Earned	**12**	-	-
Other Income	**13**	103,890,581	174,443,683
Prior Period Income/Adjustment	**14**	-	-
TOTAL (A)		**3,061,840,363**	**2,636,057,663**
EXPENDITURE			
Staff Payments & Benefits (Establishment Expenses)	**15**	1,676,898,708	1,434,094,669
Academic Expenses	**16**	423,089,019	388,218,424
Administrative and General Exp	**17**	191,189,564	125,400,155
Transportation expenses	**18**	2,488,199	1,998,376
Reparis & Maintenance	**19**	105,746,942	117,455,346
Finance Cost	**20**	-	-
Depreciation	**4**	289,374,967	238,365,602
Other Expenses	**21**	290,291	388,161
Prior Period Expenses	**22**	21,987,190	16,609,688
TOTAL (B)		**2,711,064,880**	**2,322,530,421**
Balance being excess of Income over Expenditure (A-B)		350,775,482	313,527,242
Transfer to / from Designated Fund		-	-
Building Fund		-	-
Others if Any - Transfer to IRG		-	-
Balance being surplus (Deficit) carried to General Fund		**350,775,482**	**313,527,242**
Significant Accounting Policies	**23**		
Contingent Liabilities and Notes to Accounts	**24**		

NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL

SCHEDULES FORMING PART OFBALANCE SHEET AS AT 31-03-2023

SCHEDULE 1- CORPUS FUND / CAPITAL FUND	CURRENT YEAR	PREVIOUS YEAR
Balance as at the beginning of the year	7,454,140,780	6,536,016,324
Add: Contributions towards Corpus / Capital Fund	293,100,000	126,004,544
Add: Contributions from TLC (Research)	86,318,055	67,820,222
Add: Grants from UGC, GOI and State Government to the	-	-
extent utilized for capital expenditure	-	-
Add: Assets purchased out of Earmarked Funds	-	-
Add: Assets purchased out of Sponsored Projects where	-	-
ownership vests in the institution	-	-
Add: Assets Donated / Gifts Received	-	-
Add: Other Addition	237,780,142	410,772,448
Add: Excess of Income over expenditure transferred from	-	-
income & Expenditure Account	350,775,482	313,527,242
	8,422,114,459	7,454,140,780
Ded: Unutilized Capital Grants	-	-
Ded: Deficit of Incover over Expenditure transerred from		
income & Expenditure Account & PF Withdrawl	-	-
Balance at the year end	**8,422,114,459**	**7,454,140,780**

SCHEDULE - 2 DESIGNATED / EARMARKED / ENDOWMENT FUNDS	FUND WISE BREAK UP											
	FUNDED ACCOUNTS											
	Students Welfare Fund	Magazine Fund	Students Aid Fund	Students Library Fee	Inter University Tournment Fee	Games Fee	Technical Association Fee	Film Club Chrges	Medical Aid & Exam Fee	Computer Maintenance & Email	Students Club Activity	Regn Fee - PG
	1	2	3	4	5	6	7	8	9	10	11	12
a) Opg. Balance of the Funds	14,203,802	5,323,398	385,537	31,833,449	380,190	10,680,901	1,961,067	1,562,718	30,735,628	19,568,792	175,495	157,201
b) Additions during the year	4,094,650	26,150	5,150	18,993,865	10,150	7,249,200	6,941,150	5,150	10,823,804	14,325,385	6,971,500	131,000
c) Income from investments made ofthe funds	-	-	-	-	-	-	-	-	-	-	-	-
d) Accrued Interest on Investments / Advances	-	-	-	-	-	-	-	-	-	-	-	-
e) Interest on Savings Bank A/c	-	-	-	-	-	-	-	-	-	-	-	-
f) Other additions (Specify nature)	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL (A)	18,298,452	5,349,548	390,687	50,827,314	390,340	17,930,101	8,902,217	1,567,868	41,559,432	33,894,177	7,146,995	288,201
B) Utilization / Exp towards objectivesof funds												
i) Capital Expenditure	-	-	-	-	-	-	-	-	-	-	-	-
i) Revenue Expenditure	5,593,764	-	-	13,123,006	-	4,004,119	3,909,357	442,700	5,662,311	1,013,360	205,973	197,100
TOTAL (B)	5,593,764	-	-	13,123,006	-	4,004,119	3,909,357	442,700	5,662,311	1,013,360	205,973	197,100
Closing Balance at the year end (A-B)	12,704,688	5,349,548	390,687	37,704,308	390,340	13,925,982	4,992,860	1,125,168	35,897,121	32,880,817	6,941,022	91,101
Represented by												
Cash and Bank Balances	-	-	-	-	-	-	-	-	-	-	-	-
Investments	12,704,688	5,349,548	390,687	37,704,308	390,340	13,925,982	4,992,860	1,125,168	35,897,121	32,880,817	6,941,022	91,101
Interest accrued but not due	-	-	-	-	-	-	-	-	-	-	-	-
Total	12,704,688	5,349,548	390,687	37,704,308	390,340	13,925,982	4,992,860	1,125,168	35,897,121	32,880,817	6,941,022	91,101

NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL

SCHEDULE - 2 DESIGNATED / EARMARKED / ENDOWMENT FUNDS	FUND WISE BREAK UP											
	OTHER ITEMS											
	Sanitation Charges	Sale of Applications for recruitment	Industrial Consultancy Centre	NIT Staff Club / CTV	NIT Press Account	Identity Card	Unnat Bharat Abhiyan - Dr VR Murthy	Lib Overdue Charges	OBC Co-operative Society	Officers Co-operative Credit Society	EDP Administrative Charges	TS Suspense Account
	13	14	15	16	17	18	19	20	21	22	23	24
a) Opg. Balance of the Funds	-	10,212,702	5,188,853	21,550	1,406,246	-	-	2,606,983	-	-	-	-
b) Additions during the year	5,100	39,000	29,206,887	257,900	37,970	1,123,900	250,000	183,981	1,419,366	14,545,008	57,600	466,786,647
c) Income from investments made ofthe funds	-	-	-	-	-	-	-	-	-	-	-	-
d) Accrued Interest on Investments / Advances	-	-	-	-	-	-	-	-	-	-	-	-
e) Interest on Savings Bank A/c	-	-	-	-	-	-	-	-	-	-	-	-
f) Other additions (Specify nature)	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL (A)	5,100	10,251,702	34,395,740	279,450	1,444,216	1,123,900	250,000	2,790,964	1,419,366	14,545,008	57,600	466,786,647
B) Utilization / Exp towards objectivesof funds												
i) Capital Expenditure	-	-	-	-	-	-	-	-	-	-	-	-
i) Revenue Expenditure	-	2,783,098	32,703,401	257,900	-	-	-	488,319	1,419,366	14,545,008	-	466,786,647
TOTAL (B)	-	2,783,098	32,703,401	257,900	-	-	-	488,319	1,419,366	14,545,008	-	466,786,647
Closing Balance at the year end (A-B)	5,100	7,468,604	1,692,339	21,550	1,444,216	1,123,900	250,000	2,302,645	-	-	57,600	-
Represented by												
Cash and Bank Balances	-	-	-	-	-	-	-	-	-	-	-	-
Investments	5,100	7,468,604	1,692,339	21,550	1,444,216	1,123,900	250,000	2,302,645	-	-	57,600	-
Interest accrued but not due	-	-	-	-	-	-	-	-	-	-	-	-
Total	5,100	7,468,604	1,692,339	21,550	1,444,216	1,123,900	250,000	2,302,645	-	-	57,600	-

NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL

SCHEDULE - 2 DESIGNATED / EARMARKED / ENDOWMENT FUNDS	FUND WISE BREAK UP											
	OTHER ITEMS											
	AICTE NON-PLAN (QIP)	ICC Suspense Account	Convocation	Other Examination	College - Self Generation Fund	NIT NT Staff Co-Operative Credit Society	Examination Fee	Visitors Block Resource Fund	Conuciling Expenses (All admissions)	Spring Spree / Technozion	EDP PDF	Hostel House Keeping Charges
	25	26	27	28	29	30	31	32	33	34	35	36
a) Opg. Balance of the Funds	859,146	-	9,289,148	10	7,167,498	2	4,069,716	1,635,635	1,394,210	10,867,053	-	-
b) Additions during the year	-	104,187	580,000	143,568	21,732,663	10,793,977	6,734,000	-	1,378,200	7,289,400	96,000	4,117,674
c) Income from investments made ofthe funds	-	-	-	-	-	-	-	-	-	-	-	-
d) Accrued Interest on Investments / Advances	-	-	-	-	-	-	-	-	-	-	-	-
e) Interest on Savings Bank A/c	-	-	-	-	-	-	-	-	-	-	-	-
f) Other additions (Specify nature)	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL (A)	859,146	104,187	9,869,148	143,578	28,900,161	10,793,979	10,803,716	1,635,635	2,772,410	18,156,453	96,000	4,117,674
B) Utilization / Exp towards objectivesof funds												
i) Capital Expenditure	-	-	-	-	-	-	-	-	-	-	-	-
i) Revenue Expenditure	-	104,187	3,083,957	143,568	18,468,409	10,793,977	20,000	1,186,650	2,805,990	9,051,523	-	3,828,963
TOTAL (B)	-	104,187	3,083,957	143,568	18,468,409	10,793,977	20,000	1,186,650	2,805,990	9,051,523	-	3,828,963
Closing Balance at the year end (A-B)	859,146	-	6,785,191	10	10,431,752	2	10,783,716	448,985	(33,580)	9,104,930	96,000	288,711
Represented by												
Cash and Bank Balances	-	-	-	-	-	-	-	-	-	-	-	-
Investments	859,146	-	6,785,191	10	10,431,752	2	10,783,716	448,985	(33,580)	9,104,930	96,000	288,711
Interest accrued but not due	-	-	-	-	-	-	-	-	-	-	-	-
Total	859,146	-	6,785,191	10	10,431,752	2	10,783,716	448,985	(33,580)	9,104,930	96,000	288,711

NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL

SCHEDULE - 2 DESIGNATED / EARMARKED / ENDOWMENT FUNDS	FUND WISE BREAK UP											
	OTHER ITEMS											
	NIT Alumini Association	CRIF - T&M RF & MMWR Lal	Cost of Migration Certificate	Cost of Migration Application	Transcripts	Institute Development Contribution	AMDP Telemedicine - ProfL Anjaneyulu	PMGSY - (FDR LVRR-2023) Dr Vishnu	NIT - SC/ST Employees Welfare Fund	ICC - Administrative Charges	ICH ESCON Students Congress	ICC - Personal Development Fund
	37	38	39	40	41	42	43	44	45	46	47	48
a) Opg. Balance of the Funds	13,957,024	-	-	-	2,285,746	1,609,000	-	-	-	1,910,568	3	2,530,384
b) Additions during the year	4,778,000	164,000	190	250	1,588,039	46,521,500	500,000	633,500	4,862,250	1,378,096	-	2,296,825
c) Income from investments made ofthe funds	-	-	-	-	-	-	-	-	-	-	-	-
d) Accrued Interest on Investments / Advances	-	-	-	-	-	-	-	-	-	-	-	-
e) Interest on Savings Bank A/c	-	-	-	-	-	-	-	-	-	-	-	-
f) Other additions (Specify nature)	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL (A)	18,735,024	164,000	190	250	3,873,785	48,130,500	500,000	633,500	4,862,250	3,288,664	3	4,827,209
B) Utilization / Exp towards objectivesof funds												
i) Capital Expenditure	-	-	-	-	-	-	-	-	-	-	-	-
i) Revenue Expenditure	1,351,477	153,357	-	-	842,875	-	-	569,732	4,862,250	1,060,080	-	987,492
TOTAL (B)	1,351,477	153,357	-	-	842,875	-	-	569,732	4,862,250	1,060,080	-	987,492
Closing Balance at the year end (A-B)	17,383,547	10,643	190	250	3,030,910	48,130,500	500,000	63,768	-	2,228,584	3	3,839,717
Represented by												
Cash and Bank Balances	-	-	-	-	-	-	-	-	-	-	-	-
Investments	17,383,547	10,643	190	250	3,030,910	48,130,500	500,000	63,768	-	2,228,584	3	3,839,717
Interest accrued but not due	-	-	-	-	-	-	-	-	-	-	-	-
Total	17,383,547	10,643	190	250	3,030,910	48,130,500	500,000	63,768	-	2,228,584	3	3,839,717

NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL

SCHEDULE - 2 DESIGNATED / EARMARKED / ENDOWMENT FUNDS	FUND WISE BREAK UP											
	OTHER ITEMS											
	ICC - Faculty Share	Salary Suspense A/c	Interest Earned on TEQUIP	Training & Placement Section Fund	Corpus Fund	Maintenance Fund	Depreciation Fund	Staff Development Fund	Exce Development Programme	CCPD	Unnat Bharat Abhiyam - UBA - Dr G Sunitha	CRIF -Dean R&C
	49	50	51	52	53	54	55	56	57	58	59	60
a) Opg. Balance of the Funds	19,475,888	365,930	-	5,039,000	709,376,529	26,859,713	30,120,490	21,418,047	498,812	846,011	368,730	281,234
b) Additions during the year	13,780,960	26,248	2,770,279	2,669,000	-	-	-	-	2,274,420	-	250,000	1,203,704
c) Income from investments made ofthe funds	-	-	-	-	-	-	-	-	-	-	-	-
d) Accrued Interest on Investments / Advances	-	-	-	-	32,176,081	1,273,810	1,420,206	1,019,681	-	-	-	-
e) Interest on Savings Bank A/c	-	-	-	-	8,501	483	670	8,223	-	-	-	-
f) Other additions (Specify nature)	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL (A)	33,256,848	392,178	2,770,279	7,708,000	741,561,111	28,134,006	31,541,366	22,445,951	2,773,232	846,011	618,730	1,484,938
B) Utilization / Exp towards objectivesof funds												
i) Capital Expenditure	-	-	-	-	-	-	-	-	-	-	-	-
i) Revenue Expenditure	11,182,412	86,016	-	22,000	-	-	-	-	1,707,420	-	474,990	-
TOTAL (B)	11,182,412	86,016	-	22,000	-	-	-	-	1,707,420	-	474,990	-
Closing Balance at the year end (A-B)	22,074,436	306,162	2,770,279	7,686,000	741,561,111	28,134,006	31,541,366	22,445,951	1,065,812	846,011	143,740	1,484,938
Represented by												
Cash and Bank Balances	-	-	-	-	-	-	-	-	-	-	-	-
Investments	22,074,436	306,162	2,770,279	7,686,000	741,561,111	28,134,006	31,541,366	22,445,951	1,065,812	846,011	143,740	1,484,938
Interest accrued but not due	-	-	-	-	-	-	-	-	-	-	-	-
Total	22,074,436	306,162	2,770,279	7,686,000	741,561,111	28,134,006	31,541,366	22,445,951	1,065,812	846,011	143,740	1,484,938

SCHEDULE - 2 DESIGNATED / EARMARKED / ENDOWMENT FUNDS	FUND WISE BREAK UP				Previous Year
	OTHER ITEMS	FUND TOTAL	Endowment Fund	Grand Total	
		61	62	63	
a) Opg. Balance of the Funds	0	1,008,630,041	9,756,188	1,018,386,229	977,921,270
b) Additions during the year	-	722,157,443	23,247,684	745,405,127	176,596,677
c) Income from investments made of the funds	-	-	848,879	848,879	32,446,218
d) Accrued Interest on Investments / Advances	-	35,889,778	-	35,889,778	-
e) Interest on Savings Bank A/c	-	17,877	-	17,877	17,403
f) Other additions (Specify nature)	-	-	-	-	-
TOTAL (A)	-	1,766,695,139	33,852,751	1,800,547,890	1,186,981,568
B) Utilization / Exp towards objectives of funds					
i) Capital Expenditure	-	-	-	-	-
i) Revenue Expenditure	-	625,922,754	359,630	626,282,384	168,595,339
TOTAL (B)	-	625,922,754	359,630	626,282,384	168,595,339
Closing Balance at the year end (A-B)	-	1,140,772,385	33,493,121	1,174,265,506	1,018,386,229
Represented by					
Cash and Bank Balances	-	-	-	-	-
Investments	-	1,140,772,385	33,493,121	1,174,265,506	1,018,386,229
Interest accrued but not due	-	-	-	-	-
Total	-	1,140,772,385	33,493,121	1,174,265,506	1,018,386,229

SCHEDULE 2A

ENDOWMENT FUNDS

Specimen format of Sub Schedule to support the figures in the column "Endowment Funds" in the Schedue "Earmarked / Endowment Funds" forming part of balance sheet

Sl No	Name of the Endowment	Opening Balance		Addns during the year		Total		Expenditure during the year	Closing Balance		Total
		Endowment	Accumulated Interest	Endowment	Interest for the year	Endowment	Accumulated Interest		Endowment	Accumulated Interest	
1	Late B.R. Sastry's Scholar Ships	31,000	34,329	-	2,803	31,000	37,132	-	31,000	37,132	68,132
2	Late Dr.Govindakrishnayya M. Fund	22,000	29,219	-	1,989	22,000	31,208	-	22,000	31,208	53,208
3	Late Prof. A. Palayya Memorial Fund	25,000	48,277	-	2,260	25,000	50,537	-	25,000	50,537	75,537
4	Late Prof. M.J.Kirpalani & Dr.U.A.Sastry	8,500	9,552	-	768	8,500	10,320	-	8,500	10,320	18,820
5	Late Kabaddi Subbulu Mem. Fund	8,000	4,758	-	723	8,000	5,481	-	8,000	5,481	13,481
6	Late Prof.V.Venkateswarrao Gold M.	35,000	16,041	-	3,164	35,000	19,205	-	35,000	19,205	54,205
7	Late Prof. N. Rama Rao Mem. G.M.	82,000	9,318	-	7,414	82,000	16,732	-	82,000	16,732	98,732
8	K.S.R. Srinivasa Momerial Fund	9,500	21,283	-	859	9,500	22,142	-	9,500	22,142	31,642
9	Prof. S.K.Lakshmana Rao Shaptyabdi Endo	130,500	71,686	-	11,799	130,500	83,485	-	130,500	83,485	213,985
10	Chodavarapu Deval Sharma M.Fund	38,000	15,486	-	3,436	38,000	18,922	-	38,000	18,922	56,922
11	SBH Gold Medal for P.G.Students	13,500	10,462	-	1,221	13,500	11,683	-	13,500	11,683	25,183
12	N.C.P.R. Charyulu Gold Medal	10,000	8,047	-	904	10,000	8,951	-	10,000	8,951	18,951
13	Yelluri Chenchu Rami Reddy&AnnammaGM	6,500	8,633	-	588	6,500	9,221	-	6,500	9,221	15,721
14	M. Azmath Ali Umair GM & Scholarships	-	4,815	-	-	-	4,815	-	-	4,815	4,815
15	Prof Alluraiah Gold Medal	50,000	(2,885)	-	4,521	50,000	1,636	-	50,000	1,636	51,636
16	Smt. Poornamma M.G.M.	50,000	(10,421)	-	4,521	50,000	(5,900)	-	50,000	(5,900)	44,100
17	Prof. S. Raja Gopal M.G.M.	50,000	534	-	4,521	50,000	5,055	-	50,000	5,055	55,055
18	REC. Allumini America Chapter Gold Medal	50,000	60,268	-	4,521	50,000	64,789	-	50,000	64,789	114,789
19	Shoban Chalapathi Gold Medal	150,000	31,420	-	10,135	150,000	41,555	-	150,000	41,555	191,555
20	K.V. Vijaya saradhi Gold Medal	150,000	17,323	-	10,135	150,000	27,458	-	150,000	27,458	177,458
21	Dept. of Maths Humanities Gold Medal	110,000	84,101	-	9,945	110,000	94,046	37,855	110,000	56,191	166,191
22	Smt.Kasireddy Annapurnamma&Venkatesh	50,000	49,490	-	4,521	50,000	54,011	-	50,000	54,011	104,011
23	Late Sri Yarlagadda Arjuna Rao G.M.	50,000	22,203	-	4,521	50,000	26,724	-	50,000	26,724	76,724
24	Dr.L.R.Kadiyali G.M.	50,000	51,226	-	4,521	50,000	55,747	-	50,000	55,747	105,747

25	Kalicharan Memorial Scholarlship	50,000	49,453	-	4,521	50,000	53,974	-	50,000	53,974	103,974
26	Salek Chand Memorial Scholarship	50,000	52,453	-	4,521	50,000	56,974	-	50,000	56,974	106,974
27	Batch of 1975-80 Excellence Scholarship	50,000	49,453	-	4,521	50,000	53,974	-	50,000	53,974	103,974
28	Puvvada Subadramma Memorial Fund	50,000	46,318	-	4,521	50,000	50,839	-	50,000	50,839	100,839
29	Prof.B.Shankaraiah Gold Medal	50,000	23,266	-	4,521	50,000	27,787	-	50,000	27,787	77,787
30	Mane Madhavi Gold Medal(Bestoutgoing)	50,000	48,536	-	4,521	50,000	53,057	-	50,000	53,057	103,057
31	S.Venkateswar Rao Gold Medal	150,000	68,238	-	13,562	150,000	81,800	18,928	150,000	62,872	212,872
32	Prof.KSV.Basvi Reddy Gold Medal	150,000	99,363	-	13,562	150,000	112,925	18,928	150,000	93,997	243,997
33	Late Peudyala Pauudra Deo-G.Medal	200,000	133,499	-	17,550	200,000	151,049	18,928	200,000	132,121	332,121
34	Laxmikantha Reddy Gold Medal	150,000	94,205	-	13,562	150,000	107,767	18,928	150,000	88,839	238,839
35	RVR Laxmi Jayamma Memorial G.M.	150,000	77,120	-	13,162	150,000	90,282	18,928	150,000	71,354	221,354
36	BANG-Prof.Appayanna Gold Medal	150,000	74,111	-	13,162	150,000	87,273	18,928	150,000	68,345	218,345
37	Allimini Chennai Chapter	-	28	-	-	-	28	-	-	28	28
38	Prof.Tirupathy Reddy-Gold Medal	200,000	70,449	-	11,229	200,000	81,678	18,928	200,000	62,750	262,750
39	Dr. Mantha Eswar Rao - Gold Medal	150,000	48,276	-	8,422	150,000	56,698	-	150,000	56,698	206,698
40	Dr R L Umashankar Gold Medal	150,000	62,390		13,162	150,000	75,552	18,928	150,000	56,624	206,624
41	Ms.S.Shobha Anjani Cash Award	25,000	17,434	-	2,194	25,000	19,628	-	25,000	19,628	44,628
42	Annual Award of Best Faculty 1978-82	450,000	439,910	-	45,479	450,000	485,389	-	450,000	485,389	935,389
43	Prof. Y.D. Reddy - Gold Medal	150,000	44,643	-	13,162	150,000	57,805	-	150,000	57,805	207,805
44	Dr. K.L.Narayana - Memorial Gold Medal	150,000	47,905	-	13,162	150,000	61,067	18,928	150,000	42,139	192,139
45	Prof.M.Venkataratnam	150,000	33,548	-	13,162	150,000	46,710	-	150,000	46,710	196,710
46	Late Koniki Padmavathi	150,000	33,548	-	13,162	150,000	46,710	18,928	150,000	27,782	177,782
47	Late Prof.Karnamsivilinga pillai MGM	150,000	23,548	-	13,162	150,000	36,710	-	150,000	36,710	186,710
48	Prof. S. Ramaswami Reddy - Gold Med	150,000	49,141	-	13,162	150,000	62,303	-	150,000	62,303	212,303
49	Late Sri N. Subba Rao Memorial G.M	150,000	33,548	-	13,162	150,000	46,710	18,928	150,000	27,782	177,782
50	Late Prof. R.L. Murthy - Memorial G.M	150,000	33,548	-	13,162	150,000	46,710	18,928	150,000	27,782	177,782
51	Prof. P.G. Sastry Gold Medal	150,000	49,141	-	13,162	150,000	62,303	-	150,000	62,303	212,303
52	Prof. K. Venkat Reddy - Gold Medal	150,000	47,720	-	11,967	150,000	59,687	18,928	150,000	40,759	190,759
53	Prof. K. Nagireddy Medal	150,000	16,870	-	11,967	150,000	28,837	18,928	150,000	9,909	159,909

54	Prof S Ragavachary - Endowment	200,000	61,592	229,401	15,956	429,401	77,548	-	429,401	77,548	506,949
55	Late Ponnala Radhamma - GM	150,000	44,396	-	13,562	150,000	57,958	-	150,000	57,958	207,958
56	N Babu Shankar - MGM	200,000	52,785	-	15,956	200,000	68,741	-	200,000	68,741	268,741
57	Best of all round Girls Students in Chem Eng-sethuram-Gold M	200,000	13,398	-	14,056	200,000	27,454	18,928	200,000	8,526	208,526
58	1978-82 B Tech Best Student Award	518,289	62,028	-	25,265	518,289	87,293	-	518,289	87,293	605,582
59	Late K Kameshwara Rao Memorial GM	485,000	74,739	-	29,761	485,000	104,500	37,855	485,000	66,645	551,645
60	Dr Md Yaqoob-Dr Md Hussain- Merit Award	150,000	26,626	-	10,542	150,000	37,168	-	150,000	37,168	187,168
61	Telikepalli Santha Devio Memorial (Ist Y ECE)	-	-	200,000	4,671	200,000	4,671	-	200,000	4,671	204,671
62	Amti Ghosh Batch 1977-8 Award of Excellence	-	-	1,800,000	33,958	1,800,000	33,958	-	1,800,000	33,958	1,833,958
63	1995 Batch Alumini Assistance Fund	-	-	3,225,224	-	3,225,224	-	-	3,225,224	-	3,225,224
64	CII Gemini Property - Sudhakar R Rao	-	-	10,000,000	218,192	10,000,000	218,192	-	10,000,000	218,192	10,218,192
65	Prof DM Vinodh Kumar - GM for Reseach Sch	-	-	450,000	-	450,000	-	-	450,000	-	450,000
66	Alumni Endowment 1997 Batch Assistance	-	-	7,343,059	32,606	7,343,059	32,606	-	7,343,059	32,606	7,375,665
	Grand Total	**6,957,789**	**2,798,399**	**23,247,684**	**848,879**	**30,205,473**	**3,647,278**	**359,630**	**30,205,473**	**3,287,648**	**33,493,121**

SCHEDULE 3 - CURRENT LIABILITIES & PROVISIONS	CURRENT YEAR	PREVIOUS YEAR
A. CURRENT LIABILITIES		
1. Deposits from staff		
--- Security Deposit for Staff Quarters	64,794	64,794
2. Deposits from students		
--- Lab and Library Deposit	16,671,625	20,127,625
--- Hostel Caution Money Deposit	446,664	446,664
--- NIT Co-operative Stores Deposit	6,829,804	6,618,304
3. Sundry Creditors		
a) For Goods & Services	-	-
b) Others	-	-
4. Deposits - others (including EMD, Security deposit)		
--- EMD / Security Deposit	28,268,425	23,280,036
--- Other Deposit	7,894,223	8,906,598
--- Deposit for Rent and other service charges	2,000	2,000
--- ICC R&D Account	11,000	11,000
5. Statutory Liabilities(GPF, TDS, WC TAX, CPF, GIS, NPS):		
a) Overdue	-	-
b) Others		
--- Sales Tax	294,218	294,218
--- Profession Tax	616,252	615,702
--- Income Tax	2,239,038	2,230,164
--- LIC (SSS)	(6,808)	36
--- GLIS	3,568	343
--- Staff Contribution for NPS Scheme	-	(184,223)
--- Labour Commissioner (CESS)	593,633	792,563
--- Provident Fund Subscription	27,623	27,623
--- EPF	337,008	528,899
--- Seignorage Charges	295,808	303,924
--- Statutory Liabilities	178,861	220,426
--- GST - TDS	1,473,060	482,584
--- ICC - GST	3,483,853	3,152,399
7. Other Current Liabilities:		
a) Salaries	-	-
b) Receipts against sponsored projects	204,332,928	271,957,048
c) Recpt against sponsored fellowships & scholarships	84,420	762,420
d) Unutilised Grants	-	70,368,084
e) Grants in advance	-	-
f) Other funds	-	-
g) Other liabilities	-	-
--- Other Liabilities - Advances / FDD / LC Suspense	-	-
--- Outstanding Liabilities	127,233,417	105,143,842
TOTAL (A)	**401,375,414**	**516,153,072**
B. PROVISIONS		
1. For Taxation	-	-
2. Gratuity	-	-
3. Superannuation/ Pension	-	-
4. Accumulated Leave Encashment	-	-
5. Trade Warranties/ Claims	-	-
6. Others (Specify)	-	-
Security Services	-	-
TOTAL (B)	-	-
TOTAL (A+B)	**401,375,414**	**516,153,072**

SCHEDUE - 3(a) - SPONSORED PROJECTS

Sr No	Name of the Project	Opening Balance		Receipts /	Total	Expenditure	Closing Balance	
		Credit	Debit	Recoveries		during the	Credit	Debit
1	First Program-Dr.CSRK Prasad	-	4,831	-	(4,831)	-	-	4,831
2	PMGSY-Panchayat - Prof. CSRK	371,983	-	-	371,983	-	371,983	-
3	GOI-MCIT-DIT-Prof.DVLN.Somayajulu-ISEAP	138,057	-	-	138,057	-	138,057	-
4	MOOD - Centre of Excellence - Prof.CSRKP	9,980,966	-	14,374,808	24,355,774	-	24,355,774	-
5	AR & DB Orithect….Investment..Dr.GVN	422,168	-	-	422,168	-	422,168	-
6	CSIR Grant/Fellowship-S.Satyanarayana	133,174	-	-	133,174	-	133,174	-
7	IPPSSM-CSP Rao…Missiles.	254,858	-	-	254,858	-	254,858	-
8	Nava Research Board - Prof. Appa Rao	-	28,000	-	(28,000)	-	-	28,000
9	DST Grant-Dr.Y.Ravi Kumar - MED	264,205	-	-	264,205	-	264,205	-
10	UGC-Grants Contingency for MBA	160,000	-	-	160,000	-	160,000	-
11	DST-End Forming….Mr.J.Davidson-MED	133,638	-	-	133,638	-	133,638	-
12	NRRDA-MRD-Sealing….Prof.CSRK-Civil	269,596	-	-	269,596	29,522	240,074	-
13	GOI-DST-Dr.Venkat Reddy, K. - CIVIL	201,256	-	-	201,256	-	201,256	-
14	UGC-Pawan Kumar - JRF - Maths	138,758	-	-	138,758	-	138,758	-
15	LRDE-ECE-Prof. NS.Murthy	290,595	-	-	290,595	-	290,595	-
16	GOI-DST-Dr.P.Abdul Azeem-Physics	-	11	-	(11)	-	-	11
17	R.Proj-Institute Overhead Charges	6,404,847	-	3,608,120	10,012,967	6,404,847	3,608,120	-
18	DRDO-Dr.KV.Gobi - Chemistry	736,564	-	-	736,564	-	736,564	-
19	ECIL Radar Signal Processing-CBR-Rao	45,000	-	-	45,000	-	45,000	-
20	IIT - Madras - B.R. Purushotham - CSE	160,000	-	-	160,000	-	160,000	-
21	MHRD - ISTE-IITB-Workshop-Prof.BV.Appa	206,288	-	-	206,288	-	206,288	-
22	IIC-InfosysFRP1-Prof.DVLN.Somayajulu	182,114	-	-	182,114	-	182,114	-
23	CSIR - Kinetic….Powder…Dr. Asitkumar	-	100	-	(100)	-	-	100
24	MoU-RS112-PTV-Pilot Project-Dr.CSRK	600,062	-	-	600,062	-	600,062	-
25	DLRL-4121-Design..Dr.NVSN&Dr.Vakula	-	4,447	-	(4,447)	-	-	4,447
26	DST-SERB-Dr.P.V.Srilakshmi-Chemistry	247,846	-	-	247,846	-	247,846	-
27	SERB-PAC-2013-Prof.CSRK.Prasad	459,642	-	-	459,642	-	459,642	-
28	SemiConductor-US-Prof.B.Laxmi-ECE	221,404	-	-	221,404	-	221,404	-
29	DST-SERB-Dr.P.V.Srilakshmi	-	140,410	140,410	-	-	-	-
30	DRDO-Dr.Mani-ECE	121,006	-	-	121,006	-	121,006	-
31	DRDO-Dr.B.Laxmi - ECE	131,228	-	-	131,228	-	131,228	-
32	GOI-MCIT-ITRA-Prof.NVUmamahesh-civil	360,206	-	-	360,206	-	360,206	-

Sr No	Name of the Project	Opening Balance		Receipts / Recoveries	Total	Expenditure during the	Closing Balance	
		Credit	Debit				Credit	Debit
33	DRDO-CARS-Dr.PSC.Bose-MED	187,209	-	-	187,209	-	187,209	-
34	DRDO-ER&IPR-Prof.GVS.Nageswar Rao	-	73,242	-	(73,242)	-	-	73,242
35	MOEF-Dr.Shirish H.Sonawane-Chemical	129,990	-	-	129,990	-	129,990	-
36	DST-MCIT-Dr. Shirish H Sonawane, Chemi	-	56,000	-	(56,000)	-	-	56,000
37	GoI-BRNS-Ajay Kumar Patel-CED	141,377	-	-	141,377	-	141,377	-
38	GoI-SERB-FSERY-Dr.Y.Ravi Kumar, MED	1,760,944	-	-	1,760,944	-	1,760,944	-
39	GoI-DST-MST-Dr.Hari Prasad, INSPIRE	277,353	-	-	277,353	-	277,353	-
40	UGC-Mohanbabu - Physics	15,214	-	-	15,214	-	15,214	-
41	GoI-MSTBD-Dr.P.S.Rao-Biotech	429,235	-	-	429,235	-	429,235	-
42	GoI-BRNS-Dr.T.S.Rao/GVS Rao-MMED	1,818,897	-	-	1,818,897	-	1,818,897	-
43	UGC-Mr.S.Nagaraju-Chemistry	180,378	-	-	180,378	-	180,378	-
44	DST-INSPIRE-G.Venkatasuman-Maths	239,739	-	-	239,739	-	239,739	-
45	CARS-Dr.T.Kishore Kumar-ECE	644,585	-	-	644,585	-	644,585	-
46	DRDO-Dr.D.Vakula-ECE	-	1,300	-	(1,300)	-	-	1,300
47	Industry Sponsored - Prof.GVPC-Chemistry	130,798	-	-	130,798	16,965	113,833	-
48	DRDO-Ministry of Defence-Dr.SHRao, ECE	-	565,143	-	(565,143)	-	-	565,143
49	DRDO-CARS-Dr. Sreehari Rao - ECE	446,578	-	-	446,578	-	446,578	-
50	CSIR-Dr. R. Satish Babu - Biotech	100,935	-	-	100,935	-	100,935	-
51	GoI–SERB–Dr.Ajey Kumar Patel – Civil	-	12,064	12,064	-	-	-	-
52	DRDO–NRB–Dr.PSC Bose – MED	6,632	-	-	6,632	100,000	-	93,368
53	ISEA Project–II–Prof. Ramesh/Prof.DVLNS	1,248,279	-	-	1,248,279	15,000	1,233,279	-
54	K Pack System–Dr.Shirish H Sonawane, Che	-	5,143	-	(5,143)	-	-	5,143
55	SERB–Dr. Brahma Raju G, MMED	-	270,538	270,538	-	-	-	-
56	GoI–MST–DST–Dr.Madhavi Latha Devi, Physi	188,369	-	-	188,369	-	188,369	-
57	GoI–SERB–Dr.D.Kashinath–Chemistry	491,386	-	-	491,386	-	491,386	-
58	GoI–SERB–Dr.Amitava Bandu, Biotech	-	-	-	-	-	-	-
59	DRDO–CARs–Dr. D. Vakula–ECE	170,240	-	-	170,240	170,240	-	-
60	GoI–MHRD–Prof.I.A.K. Reddy–Chemistry	442,754	-	-	442,754	-	442,754	-
61	GoI–MHRD–Prof.I.A.K. Reddy–Chemistry	561,253	-	-	561,253	561,255	-	2
62	GoI–SERB–Dr. Prakash S – Biotech	100,000	-	-	100,000	-	100,000	-
63	GoI-SERB-Dr.Venkatatri Narayanan-Chem	313,165	-	-	313,165	-	313,165	-
64	SMDP–C2SD–MCIT–Dr.P.Srihari Rao & KP–E	1,530,224	-	-	1,530,224	-	1,530,224	-

Sr No	Name of the Project	Opening Balance		Receipts / Recoveries	Total	Expenditure during the	Closing Balance	
		Credit	Debit				Credit	Debit
65	GoI–SERB–Dr.D.Paul Joseph–Physics	756,640	-	-	756,640	-	756,640	-
66	GoI–DST–MST–Dr.K.Hari Prasad–Chemistry	177	-	-	177	-	177	-
67	GoI–SERB–Dr.Hari Prasad – Chemistry	41,539	-	-	41,539	41,539	-	-
68	DRDO–CARS–Dr.TKK–ECE	183,703	-	-	183,703	-	183,703	-
69	GoI–DRDO–CARs–Dr.S. Ravi Chandra–CSE	231,747	-	-	231,747	-	231,747	-
70	GoI–SERB–Dr.B. Rama Raju, Biotech	-	222,045	-	(222,045)	-	-	222,045
71	Geetam–SERB–Dr.P. Vamshi Krishna, MED	-	4,472	4,472	-	-	-	-
72	DST-FIST Programme - MED	9,800	-	-	9,800	-	9,800	-
73	GoI–JPC–Ministry of Steel, MMED	678,002	-	-	678,002	-	678,002	-
74	GoI–SERB–Dr.G.Raghavendra, MED	-	109,489	109,489	-	-	-	-
75	GoI–SERB–Dr.A. Benerji Babu, Maths	-	539,304	539,304	-	-	-	-
76	GoI–MST–DST–INSPIRE Fellowship– K. Satis	-	437	-	(437)	-	-	437
77	GoI–NTPC–NETRA–Dr.Arockia Kumar, MMED	-	33,070	-	(33,070)	-	-	33,070
78	GoI–SERB–Dr. P. Sreenivasa Rao, Biotech	1	-	-	1	-	1	-
79	GoI–SERB–Dr. V. Jayalakshmi, Physics	56,577	-	-	56,577	-	56,577	-
80	GoI–SERB–Dr.A. Sesha Giri Rao, Chemical	-	72,588	-	(72,588)	-	-	72,588
81	GoI–SERB–Dr.S. Shankar, CED	-	1,747,526	1,747,526	-	-	-	-
82	GoI–MHRD–Dr.T.P.Tezeswi, CED	1,763,600	-	-	1,763,600	-	1,763,600	-
83	GoI–SERB–Dr.Ajoy Kumar Pandey, MMED	419,680	-	-	419,680	182,895	236,785	-
84	GoI–SERB–Dr.Kusum Kumari, Physics	60,413	-	-	60,413	-	60,413	-
85	GoI–Ministry of Defence – Dr.CSPR/Dr.PSB	604,140	-	-	604,140	-	604,140	-
86	GoI–SERB–Dr.T. Vinay Kumar, EEE	121,247	-	-	121,247	-	121,247	-
87	GoI–SERB–Dr.G. Naga Srinivasulu, MED	210,176	-		210,176	-	210,176	-
88	GoI-BRNS-DAE-Dr.Sourabh Roy, Physics	77,624	-	-	77,624	-	77,624	-
89	GoI-SERB-Dr.B. Nagu, EED	-	957,775	957,775	-	-	-	-
90	GoI-SERB-Dr.Chandra Mohan V P, MED	-	281,695	281,695	-	-	-	-
91	GoI-DST-MST-Dr.Kusum Kumari, Physics	182,468	-	702,616	885,084	468,935	416,149	-
92	IITM-Dr.D.Kalyan Kumar, CED	126,290	-	300,000	426,290	-	426,290	-
93	GoI-AR&D (DRDO)-Dr.A.Venu Vinod, Chem	521	-	-	521	-	521	-
94	GoI-SERB-Dr.B.Satish Ben, MED	-	24,176	24,176	-	-	-	-
95	GoI-SERB-Dr.B.Satish Ben, MED		-	1,541,860	1,541,860	1,566,196	-	24,336
96	GoI-SERB-Dr.Arockiakumar Raju-MMED	153,181	-	-	153,181	-	153,181	-

Sr No	Name of the Project	Opening Balance		Receipts / Recoveries	Total	Expenditure during the	Closing Balance	
		Credit	Debit				Credit	Debit
97	GoI-SERB-Dr.S.Kanmani Subbu, MED	2,925,000	-	-	2,925,000	-	2,925,000	-
98	GoI-SERB-Dr.V.V.Mani-ECE	18,213	-	-	18,213	-	18,213	-
99	GoI-SERB-Dr.Syed Ismail, MED	-	2,068,353	2,068,353	-	-	-	-
100	GoI-BIRAC-SRISTI-Dr.Shirish H S, Chemica	5,437	-	-	5,437	-	5,437	-
101	GoI-SERB-Dr.Kirubakaran-EED	780,637	-	-	780,637	-	780,637	-
102	GoI-DST-Inspire Fellowship-VDRPavan, Phy	181	-	-	181	-	181	-
103	GoI-DST-Inspire Fellowship-Srikanth G,	282,956	-	-	282,956	71,920	211,036	-
104	GoI-DRDO(AR&DB)-Dr.A.Kumar-MED	144,340	-	-	144,340	-	144,340	-
105	GoI-SERB-Dr.S.Srinivasa Rao-EED	807,159	-	-	807,159	478,713	328,446	-
106	GoI-SERB-Dr.Sourach Roy-Physics	224,431	-	-	224,431	-	224,431	-
107	UGC-DAE-CSR-Prof.GVS Nageswara Rao	-	37,602	-	(37,602)	-	-	37,602
108	GoI-CARS-Dr.PSrihariRao&Dr.S.AnuradhaECE	-	12,990	-	(12,990)	-	-	12,990
109	CSIR-Dr.AmitavaBandhu-Biotech	11,737	-	-	11,737	-	11,737	-
110	GoI-SERB-Dr.TKK-ECE	256,857	-	-	256,857	-	256,857	-
111	GoI-MST-DST-Dr.SHS-Chemical	3	-	-	3	-	3	-
112	GoI-DST-Dr. P. Venkata Suresh, Chemical	-	165,707	-	(165,707)	-	-	165,707
113	RINL-Visakha Steel-PSCBose/CSP Rao-MED	16	-	-	16	-	16	-
114	GoI-SERB-Dr.VT Somasekhar-EED	2,083	-	-	2,083	-	2,083	-
115	GoI-MD(AR&D)-DRDO-Dr.TP Tezeswi-CED	922,855	-	-	922,855	-	922,855	-
116	GoI-SERB-Dr.SHS-Chemical	691,245	-	-	691,245	-	691,245	-
117	GoI-SERB-Dr.V.Kohila-Biotech	-	259,996	259,996	-	-	-	-
118	GoI–SERB–Dr.P. Syam Prasad, Physics	92,238	-	172,000	264,238	-	264,238	-
119	GoI–SERB–Dr.S. Anuradha, ECE	123,242	-	-	123,242	24,763	98,479	-
120	GoI–SERB–Dr.K. Venkat Reddy, CED	603,970	-	-	603,970	326,294	277,676	-
121	CSIR–Dr. D. Srinivas–Chemistry	-	13,023	150,380	137,357	39,851	97,506	-
122	GoI–MOIL–Prof.L.Anjaneyulu–ECE	121,102	-	-	121,102	9,425	111,677	-
123	GoI–NMP–AUSE–Prof.GVS Nageswara Rao	5,218,674	-	-	5,218,674	-	5,218,674	-
124	GoI–SERB–Dr.Narasimha Raju–EEE	-	673,999	673,999	-	-	-	-
125	GoI–SERB–Dr.P.Abdul Azeem, Physics	-	1,200,513	1,200,513	-	-	-	-
126	GoI–SERB–Dr.Satish Kumar–EED	-	197,338	197,338	-	-	-	-
127	AUSC–IGCAR–Dr.N.Narsaiah–MMED	2,531,111	-	-	2,531,111	-	2,531,111	-
128	AUSC–IGCAR–Dr.Ajey Kumar Panday, MMED	-	4,423,351	-	(4,423,351)	-	-	4,423,351

Sr No	Name of the Project	Opening Balance		Receipts / Recoveries	Total	Expenditure during the	Closing Balance	
		Credit	Debit				Credit	Debit
129	AUSC–IGCAR–Dr.GVSNageswara Rao	3,610,072	-	-	3,610,072	-	3,610,072	-
130	GoI–DST–MST–Dr.Vamshi Krishna–MED	-	405,249	-	(405,249)	-	-	405,249
131	GoI–IITM–Prof.M.V. Umamahes/Dr.Venka	-	906,820	-	(906,820)	611,280	-	1,518,100
132	GoI–CARS–Prof.NVSNSarma/Dr.D.Vakula	-	9,000	-	(9,000)	-	-	9,000
133	IEI–R&D Cell–Dr. Jaya Krishna, MED	-	23,847	-	(23,847)	-	-	23,847
134	GoI–MST–DST–Dr.S H Sonawane, Chemical En	-	299,485	-	(299,485)	-	-	299,485
135	GoI–DST–MST(INSPIRE)–Dr.J.Prakash	35,791	-	-	35,791	-	35,791	-
136	AUSC–IGCAR–Dr.GVSNRao–MMED	2,353,080	-	-	2,353,080	-	2,353,080	-
137	GoI–DST–MST–Prof.N.Narsaiah,MMED	985,044	-	1,369,860	2,354,904	845,547	1,509,357	-
138	GoI–SERB–Dr.V.Anitha–CED	-	488,535	488,535	-	-	-	-
139	GoI–DST–MST–Archana Bhat–Maths	-	64,796	212,287	147,491	442,233	-	294,742
140	GoI–DST–MST–RaghavendraPSingh–Mat	223,200	-	-	223,200	223,000	200	-
141	CPRI–Dr.S.Sreenivasa Rao–EED	-	316,728	52,720	(264,008)	53,640	-	317,648
142	GoI–DST–MST–Dr.J.Ravi Kumar–ECE	-	125,886	-	(125,886)	86,113	-	211,999
143	ICSSR–Dr.G.Sunitha–SoM	-	20,328	-	(20,328)	-	-	20,328
144	GoI–DST–MST–Dr.Venkat Reddy K–CED	9,642	-	-	9,642	-	9,642	-
145	GoI–DST–Dr.Vijay Kumar M–MED	431,785	-	-	431,785	431,273	512	-
146	AICTE–Prof.D.Srinivasa Charya, Maths	570,000	-	-	570,000	-	570,000	-
147	GoI–SERB–Dr.Suresh Babu–EED	338,889	-	51,142	390,031	440,031	-	50,000
148	GoI–SERB–Dr.Prakash Saudagar–Biotech	-	791,395	1,745,222	953,827	496,591	457,236	-
149	GoI–SERB–Dr.K.Narasimhulu–Biotech	26,896	-	-	26,896	-	26,896	-
150	GoI–SERB–Dr.G.Udaya Bhaskar Babu	-	176,622	-	(176,622)	-	-	176,622
151	GoI–SERB–Dr.Vinay Kumar, EEE	-	69,649	110,249	40,600	40,600	-	-
152	GoI–SERB–DST–Prof.P.V.Srilakshmi	133,557	-	225,000	358,557	1,140,148	-	781,591
153	GoI–SERB–Dr.Raghu Chitta, Chemistry	1,447,377	-	58,598	1,505,975	85,597	1,420,378	-
154	GoI–SERB–Dr.Arun Kumar G, ECE	455,247	-	-	455,247	1,365,020	-	909,773
155	GoI–SERB–Dr.Vasu V, MED	-	468,090	650,000	181,910	500,842	-	318,932
156	GoI–SERB–Dr.S. Nagarajan, Chemistry	-	125,314	125,314	-	695,683	-	695,683
157	GoI–SERB–Dr.Ravinder Pawar, Chemistry	-	108,850	197,140	88,290	128,387	-	40,097
158	GoI-DST-Dr.K.Venkat Reddy-CED	-	145,357	479,812	334,455	719,200	-	384,745
159	GoI–SERB–Dr.K.Hari Prasad, Chemistry	594,220	-	-	594,220	57,000	537,220	-
160	GoI–MBDB–Dr.T.V.Appa Rao–Physics	2,677,821	-	-	2,677,821	608,214	2,069,607	-

Sr No	Name of the Project	Opening Balance		Receipts / Recoveries	Total	Expenditure during the	Closing Balance	
		Credit	Debit				Credit	Debit
161	GoI-ICSSR-MHRD-Dr.Madhumathi P-HSS	64,640	-	-	64,640	14,000	50,640	-
162	GoI–SERB—Dr.S.Porpandi Selvi –EED	-	423,021	23,021	(400,000)	482,908	-	882,908
163	GoI–SERB–Dr.R.Rakesh Kumar, Physics	1	-	-	1	-	1	-
164	GoI–SERB–Dr.Ratna Prabha D, Biotech	422,061	-	-	422,061	105,000	317,061	-
165	GoI–SPARC–MHRD–Dr.Nagarajan D, Chemi	-	9,373	1,634,037	1,624,664	1,634,037	-	9,373
166	GoI–SPARC–MHRD–Dr.Murali Mohan S, Che	51,831	-	863,000	914,831	8,668	906,163	-
167	GoI–SPARC–MHRD–Dr.NagaSrinivasulu G	1,736,752	-	728,000	2,464,752	-	2,464,752	-
168	GoI–SPARC–MHRD–Dr.K.Venkat Reddy	-	2,514,553	1,500,000	(1,014,553)	46,736	-	1,061,289
169	GoI–SPARC–MHRD–Dr.NagaSrinivasulu G	567,200	-	820,000	1,387,200	-	1,387,200	-
170	GoI–SPARC–MHRD–Dr.V.V.Mani, ECE	-	31,713	1,146,000	1,114,287	-	1,114,287	-
171	GoI–SPARC–MHRD–Dr.Narasimharaju BL	303,061	-	1,163,000	1,466,061	-	1,466,061	-
172	GoI–SPARC–MHRD–Dr.Sreehari Rao P,ECE	660,750	-	785,000	1,445,750	-	1,445,750	-
173	GoI–SPARC–MHRD–Dr.Kartik B, MED	275,077	-	872,000	1,147,077	-	1,147,077	-
174	GoI–SPARC–MHRD–Dr.Narasimha Rao R	54,107	-	810,000	864,107	-	864,107	-
175	GoI–CPRI–Dr.S.Porpandi Selvi–EED	1,293	-	-	1,293	-	1,293	-
176	GoI–MST–DST–Dr.A. Kumar, MED	313,413	-	-	313,413	-	313,413	-
177	GoI–SERB–Dr. L. Anjaneyulu, ECE	18,813	-	-	18,813	199,500	-	180,687
178	GoI–DST–MST–Head, Chemistry	12,194,960	-	-	12,194,960	12,036,000	158,960	-
179	SPARC–Overhead & Contingency	678,249	-	-	678,249	678,000	249	-
180	GTRE–Dr. Srish H Sonawane, Chemical	29,274	-	-	29,274	494,733	-	465,459
181	GoI–DST–Dr.Vijay Kumar, MED	-	5,479	16,300	10,821	11,292	-	471
182	ICSSR–Dr.V. Rama Devi, SoM	-	92,366	-	(92,366)	-	-	92,366
183	GoI–SERB–Dr.T.P. Tezeswi, CED	743,238	-	-	743,238	399,602	343,636	-
184	GoI–SERB–Dr.Manohar K, Chemical	-	324,077	209,017	(115,060)	-	-	115,060
185	GoI–SERB–Dr. Shirish H Sonawane, Che	1,283,816	-	650,000	1,933,816	806,997	1,126,819	-
186	GoI–SERB–Dr. Narasimha Raju BL, EED	2,537,757	-	1,918,536	4,456,293	950,633	3,505,660	-
187	GoI-CSIR-Dr E Satyanrayana	-	5,908	40,423	34,515	102,833	-	68,318
188	GoI-SERB-Dr Ravinder Pawar Chemistry	-	1,513,339	400,000	(1,113,339)	2,229,111	-	3,342,450
189	GoI-SERB-Dr Raju Bhukya, ECE	158,915	-	-	158,915	184,600	-	25,685
190	AICTE(ATAL)–Dr. Raju Bhukya, CSE	360	-	-	360	-	360	-
191	CSIR-SRF Grants - Vishnu VJ Physics	-	16,082	-	(16,082)	-	-	16,082
192	GoI-SERB-Dr V Sridevi-MMED	-	1,196,417	-	(1,196,417)	-	-	1,196,417

Sr No	Name of the Project	Opening Balance		Receipts / Recoveries	Total	Expenditure during the	Closing Balance	
		Credit	Debit				Credit	Debit
193	GoI-SERB-Dr Sourbh Roy-Physics	-	1,409,654	1,409,654	-	446,943	-	446,943
194	GoI–BHEL–Dr.B.Srinivas,–MMED	64,666	-	-	64,666	-	64,666	-
195	GoI–DST–MST–Dr.C.B.K./Dr.KK–CED	16,000,000	-	-	16,000,000	7,959,525	8,040,475	-
196	GoI-CARS-DRDO-Dr-K-Madhu murthy	237,918	-	-	237,918	48,578	189,340	-
197	GoI-SERB- DST-Dr.V.V.Mani.	1,157,257	-	762,086	1,919,343	1,522,420	396,923	-
198	GoI-SERB-DST-Dr.B.S.B-MED	-	1,557,832	1,557,832	-	-	-	-
199	GoI-SERB-SRG-Dr.Chayan Bhar- ECE	-	1,994	-	(1,994)	-	-	1,994
200	GoI-SERB-DST-Dr.R.Ramesh nayaka-CED	-	20,000	-	(20,000)	-	-	20,000
201	GoI-SERB-Dr. Vinay Kumar - EED	-	833,196	-	(833,196)	-	-	833,196
202	GoI-SERB-DST-Dr.Palash Mishra-EED	-	122,750	-	(122,750)	-	-	122,750
203	GOI-SERB-DR.Rajeshkumar- chem	-	65,979	-	(65,979)	-	-	65,979
204	GoI-SERB-Dr.Kishant Kumar-Chem	-	765,509	200,000	(565,509)	615,550	-	1,181,059
205	GoI-(ISRDC) DR.RAVICHANDRA ,CSE	36,000	-	-	36,000	539,175	-	503,175
206	GoI-DST-INSPIRE- DR.Mukul Pradhan - Chem	763,650	-	-	763,650	763,646	4	-
207	GoI--DRDO-ARDB-Dr. Shivraman, MED	148,412	-	792,042	940,454	549,128	391,326	-
208	GoI-SERB- Dr.KNaga Srinivasarao B, ECE	-	1,768,498	1,558,322	(210,176)	-	-	210,176
209	GoI-SERB- Dr.KNaga Srinivasarao B, ECE	-	-	1,189,374	1,189,374	720,326	469,048	-
210	GoI-FIST-PROGRAM- Head of Physics Dept,	18,000,000	-	-	18,000,000	3,759,241	14,240,759	-
211	GoI-SERB-Dr.UmaMaheswaraRaoS-MMED	-	774,541	1,250,000	475,459	508,350	-	32,891
212	GoI-SERB-DST-Dr.A. Sesha Giri Rao, Chem	154,856	-	3,771,852	3,926,708	3,926,708	-	-
213	GoI-SERB-Dr.P.Deepak Reddy -EED	1,012,162	-	-	1,012,162	-	1,012,162	-
214	GoI-CARS-Dr.Veeresh Babu-MED	155,283	-	-	155,283	-	155,283	-
215	GoI-NHAI-Dr. Hari Krishna- CED	1,167,036	-	-	1,167,036	-	1,167,036	-
216	GoI-SERB-Dr.Surya Kanta Ghosh-Physics	-	9,699	-	(9,699)	-	-	9,699
217	RS-918-GoI-AUSC-Dr.GVSNRAO-MMED	110,270	-	-	110,270	49,458	60,812	-
218	GoI-DST-Dr. Shirish H Sonawane, Chemica	216,045	-	429,613	645,658	1,131,168	-	485,510
219	GoI-MST-DST-Dr.V.Rajesh Kumar, Chemistry	839,908	-	-	839,908	595,975	243,933	-
220	ICSSR-Dr.V.Spoorthy, SoM	140,000	-	-	140,000	41,000	99,000	-
221	GoI-PCDA(R&D)-Dr.Chandra Mohan, MED	337,884	-	-	337,884	279,000	58,884	-
222	GoI-DST-MST-R.Naresh, Maths	271,720	-	215,760	487,480	488,680	-	1,200
223	GOI-DST-MST-RK DR SKP & VR	3,373,000	-	-	3,373,000	3,543,167	-	170,167
224	GoI-GST-(GITA)-Dr.Bhadradri Raghu Ram,Ci	1,323,758	-	-	1,323,758	1,257,163	66,595	-

Sr No	Name of the Project	Opening Balance		Receipts / Recoveries	Total	Expenditure during the	Closing Balance	
		Credit	Debit				Credit	Debit
225	GoI-C-MET-Dr.S. Srinath, Chemical	112,413	-	200,000	312,413	312,233	180	-
226	GoI-AR&BB-DRDO-Dr.Kishore Babu, MMED	1,332,243	-	732,887	2,065,130	1,562,103	503,027	-
227	GoI-AR&BB-DRDO-Dr.Mahesh Kumar T, MMED	1,479,909	-	304,900	1,784,809	1,060,231	724,578	-
228	PMMM-TLC-Coordinator	-	116,500	-	(116,500)	63,600	-	180,100
229	GoI-ME&IT-Dr.K.S.Raja Mohan, Chemical	1,299,746	-	572,989	1,872,735	1,467,523	405,212	-
230	Goi-MST DBT-Dr Jayalakshmi V Physics	3,410,000	-	-	3,410,000	516,513	2,893,487	-
231	Vigyan prasar Dr K Laxma Reddy Chemistr	1,763,770	-	4,912,385	6,676,155	7,472,215	-	796,060
232	GoI-MST-DST-Dr.K.Venkat Reddy, CED	500,000	-	-	500,000	564,389	-	64,389
233	GoI-SERB-Dr.M.Srinivas, CSE	-	50,000	-	(50,000)	-	-	50,000
234	GoI-MST-DST-Dr.K.Jayanthi, (Scientist) P	1,070,696	-	-	1,070,696	884,219	186,477	-
235	HORNBY-AS-HE-Trust, Dr.R. Vennala, Human	403,380	-	-	403,380	321,032	82,348	-
236	EPMA-Dr.Vishnu, Dr. Shanker & Dr. Ven Ch	477,397	-	-	477,397	376,460	100,937	-
237	GOI-Dr Vijay Kumar - Physics Department	1,139,806	-	489,495	1,629,301	776,431	852,870	-
238	GoI-SERB-Dr.Rajesh Khanna G, Chemistry	1,940,638	-	-	1,940,638	1,759,305	181,333	-
239	GoI-CSIR-Dr.Raghuram Reddy B, CED	176,528	-	162,800	339,328	255,543	83,785	-
240	GoI-ISRO-Dr.Anjana, Chemical	1,020,085	-	-	1,020,085	1,091,619	-	71,534
241	GoI-SERB-Dr.Venkatesh/Dr.V Krishna, MED	1,859,161	-	-	1,859,161	1,338,563	520,598	-
242	GoI-SERB-Dr.Ashish Prabhu, Biotech	2,410,027	-	210,470	2,620,497	2,475,128	145,369	-
243	GoI-SERB-Dr.Jeyasenthil R, EED	2,781,087	-	30,800	2,811,887	324,266	2,487,621	-
244	TheRoyalSociety-UK,Dr.Murali Mohan, Chem	230,646	-	-	230,646	146,381	84,265	-
245	GoI-MINT-Dr.Shirish Sonawane,Chemical	187,200	-	-	187,200	120,442	66,758	-
246	GoI-SERB-Dr.SurajBhan/Sevda,Biotech	1,611,370	-	-	1,611,370	867,617	743,753	-
247	GoI-SERB-Dr.Ramkrishnan,EED	2,707,950	-	-	2,707,950	2,283,003	424,947	-
248	GoI-SERB-Dr.B.Raghuram K,CED	2,183,710	-	-	2,183,710	1,262,750	920,960	-
249	GoI-SERB-Dr.Anjana,Chemical	1,767,580	-	-	1,767,580	1,905,079	-	137,499
250	GoI-SERB-Dr.Karthik/Dr.Sampath,MED	1,953,999	-	-	1,953,999	236,670	1,717,329	-
251	GoI-SERB-Dr.Sampath Kumar, MED	1,336,945	-	-	1,336,945	524,870	812,075	-
252	GoI-DRDO(CASDIC)-Dr.JayaKrishna,MED	892,673	-	472,000	1,364,673	219,533	1,145,140	-
253	GoI-SERB-Dr.Panali Pal,CED	1,200,000	-	-	1,200,000	641,903	558,097	-
254	GoI-SERB-Dr.Y.Sudheer,CED	2,023,586	-	-	2,023,586	1,508,703	514,883	-
255	GoI-SERB-Dr.Hari Krishna Ch,MED	924,500	-	-	924,500	258,680	665,820	-
256	GoI-SERB-Dr.Bala Prakasa Rao K,CSE	799,365	-	35,760	835,125	488,398	346,727	-

Sr No	Name of the Project	Opening Balance		Receipts / Recoveries	Total	Expenditure during the	Closing Balance	
		Credit	Debit				Credit	Debit
257	GoI-SERB-Dr.N.Kishore Babu, MMED	335,000	-	-	335,000	285,594	49,406	-
258	GoI-MST-DST-Prof.N.Narsaiah, MMED	17,689,709	-	56,491	17,746,200	23,902,971	-	6,156,771
259	GoI-SERB-Dr.T.Kishore Kumar, ECE	2,327,080	-	-	2,327,080	534,603	1,792,477	-
260	GoI-SERB-Prof.CSRK Prasad, CED	335,000	-	-	335,000	308,826	26,174	-
261	GoI-SERB-Dr.V.Rajesh K Raju/Dr.Srinivasa	1,886,293	-	-	1,886,293	92,152	1,794,141	-
262	Goi-SERB-Dr.Ashim Bikas Das-Bio Tech	220,000	-	-	220,000	200,000	20,000	-
263	GoI-SERB-Dr.D. Harinath, Physics	1,861,500	-	2,820	1,864,320	1,778,003	86,317	-
264	GoI-SERB-Dr.S. Anuradha - ECE	1,592,000	-	-	1,592,000	799,261	792,739	-
265	GoI-SERB-Dr.Prakash K. - ECE	1,988,300	-	-	1,988,300	1,856,255	132,045	-
266	GoI-SERB-Dr.P. Srihari Rao - ECE	948,750	-	759,000	1,707,750	1,331,375	376,375	-
267	GoI-SERB-Dr.Sampath Kumar -MED	2,258,600	-	-	2,258,600	948,244	1,310,356	-
268	GoI-SERB-Dr.V. Narender-ECE	1,879,000	-	-	1,879,000	1,657,070	221,930	-
269	GoI-SEG/UBA-Dr.G.Sunitha	100,000	-	-	100,000	-	100,000	-
270	GoI-SERB-Dr. Ravinder Pawar Chemistry	3,280,000	-	-	3,280,000	-	3,280,000	-
271	GoI-SERB-Dr. Raju Bhukya, ECE	1,419,890	-	-	1,419,890	-	1,419,890	-
272	GoI-SERB-Dr. Narasimha Raju BL, EED	775,388	-	-	775,388	-	775,388	-
273	GoI-SERB-Dr.V.Sridevi-MMED	1,904,994	-	750,000	2,654,994	873,638	1,781,356	-
274	GoI-SERB-SRG-Dr.Chayan Bhar- ECE	-	637,765	719,759	81,994	151,769	-	69,775
275	GoI-SERB-DST-Dr.R.Ramesh nayaka-CED	-	1,298,089	1,918,089	620,000	1,415,877	-	795,877
276	GoI-SERB-Dr. Vinay Kumar - EED	-	631,848	1,984,733	1,352,885	488,157	864,728	-
277	GoI-SERB-DST-Dr.Palash Mishra-EED	594,402	-	358,482	952,884	643,511	309,373	-
278	GOI-SERB-DR.Rajeshkumar- chem	-	846,104	1,530,083	683,979	1,095,344	-	411,365
279	GoI-SERB-Dr.K.Anand Kishore-Chem	1,074,114	-	-	1,074,114	710,500	363,614	-
280	GoI-SERB-Dr.UmaMaheswaraRaoS-MMED	444,337	-	-	444,337	-	444,337	-
281	GOI-SERB-Dr.S.Venkateswara Rao	1,512,942	-	350,000	1,862,942	770,902	1,092,040	-
282	GoI-SERB-Dr.P.Deepak Reddy -EED	350,047	-	915,469	1,265,516	750,006	515,510	-
283	GoI-SERB-Dr.Anant Kumar Rai-MED	1,841,040	-	-	1,841,040	1,520,625	320,415	-
284	GoI-SERB-Dr.Surya Kanta Ghosh-Physics	114,129	-	400,000	514,129	456,910	57,219	-
285	GoI-SERB-Dr.M.Srinivas, CSE	50,000	-	-	50,000	-	50,000	-
286	GoI-Dr.S.Srinath/Dr.RaguRaja/Dr.Y.Ravi Kumar	1,502,600	-	-	1,502,600	845,597	657,003	-
287	GoI-SERB-Dr.D.Srinivasacharya,Maths	250,000	-	-	250,000	179,410	70,590	-
288	R.Proj-Institute Overheads Charges	66,554	-	-	66,554	-	66,554	-

Sr No	Name of the Project	Opening Balance		Receipts / Recoveries	Total	Expenditure during the	Closing Balance	
		Credit	Debit				Credit	Debit
289	GoI-SERB-Dr.B. Rama Raju, Biotech	497,504	-	-	497,504	-	497,504	-
290	GoI-SERB-Dr.T. Vinay Kumar, EEE	188,701	-	-	188,701	-	188,701	-
291	GoI-MST-DST-Dr.SHS-Chemical	-	35,960	-	(35,960)	-	-	35,960
292	GoI-SERB-Dr.Suresh Babu-EED	50,000	-	-	50,000	-	50,000	-
293	GoI-SERB-Dr.Prakash Saudagar-Biotech	700,000	-	-	700,000	-	700,000	-
294	GoI-SERB-Dr.G.Udaya Bhaskar Babu, Chemic	456,335	-	-	456,335	140,000	316,335	-
295	GoI-SERB-DST-Prof.P.V.Srilakshmi, Chemis	-	49,720	-	(49,720)	-	-	49,720
296	GoI-SERB-Dr.Vasu V, MED	291,789	-	-	291,789	-	291,789	-
297	GoI-SERB--Dr.S.Porpandi Selvi -EED	400,000	-	-	400,000	-	400,000	-
298	GoI-SERB-Dr. L. Anjaneyulu, ECE	285,000	-	-	285,000	-	285,000	-
299	GoI-SERB-Dr.Manohar K, Chemical	115,060	-	-	115,060	-	115,060	-
300	GOI-MST-B Bhaskar-Biotech	-	-	8,666	8,666	8,666	-	-
301	GoI-DST-MST-Dr Kanmani Subbu-MED	-	-	216,533	216,533	216,533	-	-
302	GoI-ICSSR-SRC-OU-HYD-Dr RR Som	-	-	105,100	105,100	105,100	-	-
303	GoI-CARs-Dr Kishore Kumar - ECE	-	-	315,000	315,000	497,014	-	182,014
304	GOI-DRDO-Ajay Kumar/Narsaiah/Sreenivas	-	-	3,641,000	3,641,000	1,024,279	2,616,721	-
305	GOI-SERB-Dr.M.Heeralal - CED	-	-	320,000	320,000	319,909	91	-
306	GOI-CSIR-P.Venkatesan-Chemistry	-	-	20,000	20,000	20,000	-	-
307	GOI-SERB-Dr.Jatoth Ravi Kumar - ECE	-	-	661,520	661,520	449,869	211,651	-
308	GOI-CSIR-M.Rakshitha - Physics	-	-	23,890	23,890	23,890	-	-
309	GOI_DRDO-(R&D)-Dr.PSC.Bose-MED	-	-	3,305,340	3,305,340	11,550	3,293,790	-
310	GoI-CPCB-Prof. M. Chandrasekhar, CED	-	-	350,208	350,208	330,507	19,701	-
311	GoI-SERB-Dr.T.Rama Krishnudu, CSE	-	-	612,400	612,400	448,537	163,863	-
312	GoI-SERB-Dr.Y.Ravi Kumar, MED	-	-	500,000	500,000	500,000	-	-
313	GoI-SERB-Dr.Manjaiah, MED	-	-	500,000	500,000	500,000	-	-
314	GoI-SERB-Dr.M.Sreenivas, CSE	-	-	504,340	504,340	504,340	-	-
315	GoI-MST-DST-A.Anil Sharma, Physics	-	-	674,720	674,720	672,694	2,026	-
316	GoI-MST-DST-Jitesh Pani, Physics	-	-	688,195	688,195	688,195	-	-
317	GoI-DRDO-CARS-Dr.Arunkumar, ECE	-	-	598,800	598,800	-	598,800	-
318	GoI-AICTE-Dr.Rashmi Ranjan Rao, CSE	-	-	238,000	238,000	278,297	-	40,297
319	GoI-SERB-Dr. Hari Prasad K, Chemistry	-	-	1,841,700	1,841,700	2,656,623	-	814,923
320	GoI-AICTE-ATAL)-Dr.SHirish Sonawane, Che	-	-	238,000	238,000	238,000	-	-

Sr No	Name of the Project	Opening Balance		Receipts / Recoveries	Total	Expenditure during the	Closing Balance	
		Credit	Debit				Credit	Debit
321	GoI-SERB-Dr. Manjaiah,MED	-	-	150,000	150,000	150,000	-	-
322	GoI-SERB-Dr. Vamshi Krishna, CED	-	-	500,000	500,000	499,999	1	-
323	SERB-Suspense Account	-	-	32,045,770	32,045,770	32,045,770	-	-
324	GoI-SERB-Dr.R.Ramesh Nayaka, CED	-	-	500,000	500,000	500,000	-	-
325	GoI-SERB-Dr. P. Ramesh Babu, MED	-	-	590,000	590,000	-	590,000	-
326	GoI-SDA-PDR-Dr.Vishnu R, CED	-	-	1,820,445	1,820,445	54,486	1,765,959	-
327	GoI-SERB-Dr. Suryakanta Gosh	-	-	220,000	220,000	-	220,000	-
328	GoI-SERB-Dr.I.Satish Kumar, EED	-	-	3,100,000	3,100,000	-	3,100,000	-
329	GoI-SERB-Dr.Hitesh Goutam B, Physics	-	-	2,844,000	2,844,000	2,200,000	644,000	-
330	KELLTON Tech S Ltd.-Dr.Manohar, Chemica	-	-	588,000	588,000	5,263	582,737	-
331	GoI-National COE-Dr.E.Suresh Babu, CSE	-	-	826,000	826,000	-	826,000	-
332	GoI-SERB-Dr.K.Hari Prasad, Chemistry	-	-	2,149,000	2,149,000	2,149,000	-	-
333	GoI-ISRO-Dr.L.Anjaneyulu, ECE	-	-	728,960	728,960	-	728,960	-
334	GoI-SERB-Dr.P.V.Suresh, Chemical	-	-	1,690,800	1,690,800	-	1,690,800	-
335	GoI-SERB-Dr.T.Kishore Kumar, ECE	-	-	1,745,000	1,745,000	-	1,745,000	-
336	GoI-SERB-Dr.P.Shyam Prasad, Physics	-	-	1,833,000	1,833,000	1,833,000	-	-
337	GoI-SERB-Dr.T.Vinay Kumar, EED	-	-	1,577,081	1,577,081	988,912	588,169	-
338	GoI-HBL-Power System Ltd., -Dr.Manohar,	-	-	2,673,880	2,673,880	5,435	2,668,445	-
339	GoI-SERB-Dr.M.Sashi/Dr.K.V.Reddy, CED	-	-	2,050,000	2,050,000	-	2,050,000	-
340	GoI-NRRDA-Dr.Vishnu R, CED	-	-	1,080,000	1,080,000	-	1,080,000	-
341	GoI-NRRDA-Dr.Vishnu R, CED	-	-	1,128,000	1,128,000	2,672	1,125,328	-
342	GoI-NRRDA-Dr.S.Shankar, CED	-	-	600,000	600,000	-	600,000	-
343	GoI-SERB-Dr.Asit Kumar Khanra,MMED	-	-	335,000	335,000	-	335,000	-
344	GoI-SPARC-Miscellaneous	-	-	1,345,758	1,345,758	-	1,345,758	-
345	GoI-SERB-Dr.Manish Pandey,CED	-	-	1,500,000	1,500,000	-	1,500,000	-
346	GoI-SERB-Dr.J.Prakash Chinta,Chemistry	-	-	75,000	75,000	75,000	-	-
347	SERB - Balance	42,244,557	-	-	42,244,557	38,726,562	3,517,995	-
348	ICC - SRIC - Commissioner, GHMC	-	-	9,991,350	9,991,350	-	9,991,350	-
	Total	**271,957,048**	**35,880,595**	**168,738,048**	**404,814,501**	**234,160,714**	**204,332,928**	**33,679,142**

SCHEDULE 3(b) SPONSORED FELLOWSHIPS AND SCHOLARSHIPS

Sl No	Name of the Sponsor	Opening Balance as on01.04.2022		Transactions during the year		Closing Balance as on31.03.2023	
		Cr	Dr	Cr	Dr	Cr	Dr
1	University Grant Commission	-	-	-	-	-	-
2	State Government Scholarships	762,420	-	17,341,254	18,019,254	84,420	-
3	Others (Specify individually)	-	-	-	-	-	-
		762,420	**-**	**17,341,254**	**18,019,254**	**84,420**	**-**

SCHEDULE 3 (c)- UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE GOVERNMENTS

	CURRENT YEAR	PREVIOUS YEAR
A. Plan Grants: Government of India		
Balance B/f	70,368,084	481,140,532
Add: Receipts during the year	293,100,000	126,004,544
Total(a)	363,468,084	607,145,076
Less: Refunds	-	-
Less: Utilized for Revenue Expenses	-	-
Less: Utilized for Capital Expenses	530,880,142	205,611,631
Less: Prior period adjustment	-	331,165,361
total(b)	530,880,142	536,776,992
Unutilized carried forward (a-b)	(167,412,058)	70,368,084
B. UGC Grants: Plan		
Balance B/f	-	-
Receipts during the year	-	-
Total(a)	-	-
Less: Refunds	-	-
Less: Utilized for Revenue Expenses	-	-
Less: Utilized for Capital Expenses	-	-
total(b)	-	-
Unutilized carried forward (a-b)	-	-
C. UGC Grants Non Plan		
Balance B/f	-	-
Receipts during the year	-	-
Total(a)	-	-
Less: Refunds	-	-
Less: Utilized for Revenue Expenses	-	-
Less: Utilized for Capital Expenses	-	-
total(b)	-	-
Unutilized carried forward (a-b)	-	-
D. Grants from State Govt.		
Balance B/f	-	-
Receipts during the year	-	-
Total(a)	-	-
Less: Refunds	-	-
Less: Utilized for Revenue Expenses	-	-
Less: Utilized for Capital Expenses	-	-
Less: Prior period adjustment	-	-
total(b)	-	-
Unutilized carried forward (a-b)	-	-
Grand Total (A+B+C+D)	**(167,412,058)**	**70,368,084**

SCHEDULE - 4 - FIXED ASSETS	CURRENT YEAR	PREVIOUS YEAR
Land	1	1
Site Development	-	-
Buildings	3,665,470,593	3,747,153,309
Roads & Bridges	11,771,289	12,058,394
Tubewells & Water Supply	-	-
Sewarage & Drainage	-	-
Electrical Installation and Equipment	43,173,500	17,000
Plant & Machinery	32,247,206	-
Scientific & Laboratory Equipment	623,147,549	543,230,863
Office Equipment	2,192,389	-
Audit Visual Equipment	1,473,135	-
Computers & Peripherals	107,859,438	39,870,892
Furniture, Fixtures & Fittings	52,050,280	47,515,381
Vehicles	1,237,367	1,427,145
Lib Books & Scientific Journals	2,996,784	5,993,625
Small Value of assets	1	1
Tota (A)	4,543,619,533	4,397,266,611
Capital Work in progress (B)	215,646,606	-

Intangible Assets	TOTAL	TOTAL
Computer Software	7,315,651	726,107
E-Journals	38,161,842	39,658,650
Patents	-	-
Total (C)	45,477,493	40,384,757
Grand Total(A+B+C)	4,804,743,632	4,437,651,368

SCHEDULE 5 - INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS	CURRENT YEAR	PREVIOUS YEAR
1. In Central Government Securities	-	-
2. In State Government Securities	-	-
3. Other Approved Securities	-	-
4. Shares	-	-
5. Debentures and Bonds	-	-
6. Term Deposits with Banks	723,258,537	682,624,039
7. Others (to be specified)	60,000,000	60,000,000
TOTAL	**783,258,537**	**742,624,039**

SCHEDULE 5(A) - INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS (FUND WISE)

Sl No	PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
1	Late B.R. Sastry's Scholarships	31,000	31,000
2	Late Dr.Govindakrishnayya M. Fund	22,000	22,000
3	Late Prof.A. Palayya Memorial Fund	25,000	25,000
4	Late Prof.M.J. Kirpalani &UA.Sastry Prize Money	8,500	8,500
5	Late Kabaddi Subbulu Memorial Fund	8,000	8,000
6	Late Prof. V.Venkateswara Rao Gold Medal	35,000	35,000
7	Late Prof. N. Rama Rao Memorial Gold Medal	32,000	32,000
8	Late Prof. N. Rama Rao Memorial Gold Medal	50,000	50,000
9	Late Prof. N. Rama Rao Memorial Gold Medal	-	-
10	K.S.R.Srinivasa Memorial Fund	9,500	9,500
11	Prof. S.K.Lakshmana Rao Shatyabdi Endowment	20,000	20,000
12	Prof. S.K.Lakshmana Rao Gold Medal	110,500	110,500
13	Chodavarapu Deval Sharma Memorial Fund	38,000	38,000
14	SBH Gold Medal for PG Students	13,500	13,500
15	NCPR. Charyulu Gold Medal	10,000	10,000
16	Sri Yelluri Chenchu Rami Reddy & Annamma	6,500	6,500
17	Prof. Alluraiah Gold Medal	50,000	50,000
18	Smt. Poornamma Memorial Gold Medal	50,000	50,000
19	Prof. S.Raja Gopal Gold Medal	50,000	50,000
20	REC Alumuni America Chapter Gold Medal	50,000	50,000
21	Shobhana Chalapathi Gold Medal	150,000	150,000
22	Sri .K.V. Vijaya Sardhi Gold Medal	150,000	150,000
23	Dept of maths & Humanitis Gold Medal	110,000	110,000
24	Smt.Kasireddy Annapurnamma & Venkatesh	50,000	50,000
25	Late Sri Yarlagadda Arjuna Rao Gold Medal	50,000	50,000
26	Dr.L.R.Kadiyali	50,000	50,000
27	Kalicharan Memorial Scholarship	50,000	50,000
28	Salek Chand Memorial Scholarship	50,000	50,000
29	Batch of 1975-80 Excellence Scholarship	50,000	50,000
30	Puvvada Subadramma Memorial Fund	50,000	50,000
31	Prof.B.Shankaraiah Gold Medal	50,000	50,000
32	Mane Madhavi Gold Medal(Best Outgoing Girls U.G.Stdts)	50,000	50,000
33	S.Venkateswar Rao Gold Medal	50,000	50,000
34	S.Venkateswar Rao Gold Medal	100,000	100,000
35	Prof.KSV.Basvi Reddy Gold Medal	150,000	150,000
36	D. Laxmikantha Reddy Gold Medal	150,000	150,000
37	RVR Laxmi Jayamma Gold Medal	150,000	150,000
38	Pendiyal Upendra Sastry Deo Gold Medal	200,000	200,000
39	Alumini Batch 1978-82 Batch Best Faculty Award	450,000	450,000
40	Alumini Batch 1978-82 Batch Best Student Award	518,289	518,289
41	Prof. Appayanna Gold Medal	150,000	150,000
42	Ms.S.Shobha Anjani Cash Award	25,000	25,000
43	Prof Y.D. Reddy Gold Medal	150,000	150,000
44	Dr.R.L.Umashankar Gold Medal	150,000	150,000
45	Prof.Tirupathy Reddy - Gold Medal	200,000	200,000
46	Dr. Mantha Eswar Rao Gold Medal	150,000	150,000
47	Dr. K.L. Narayana - Momerial Gold Medal	150,000	150,000
48	Prof. M. Venkataratnam - Gold Medal	150,000	150,000
49	Late Smt. Koniki Padmavathi	150,000	150,000
50	Late Prof.Karnam Sivilinga Pillai M.G.M	150,000	150,000
51	Prof.. S. Ramaswami Reddy - Gold Medal	150,000	150,000

52	Late N. Subba Rao Memorial Gold Medal	150,000	150,000
53	Late Prof. R.L. Murthy Memorial Gold Medal	150,000	150,000
54	Prof. S. Ragavachary - Endowment	429,401	200,000
55	Prof Nagi Reddy - Gold Medal	150,000	150,000
56	Prof. P.G. Sastry - Gold Medal	150,000	150,000
57	Late Ponnala Radhamma - GM	150,000	150,000
58	Kandi venkat Reddy GM	150,000	150,000
59	N Babu Shankar - MGM	200,000	200,000
60	Late K Kameshwar Rao Memorial GM	485,000	485,000
61	Best of all round Girls Student - Dr G Sethuram	200,000	200,000
62	Dr Md Yaqoob - Dr Md Hussain - Merit Award	150,000	150,000
63	Telikepalli Santha Devi Memorial (1st Y ECE	200,000	-
64	Amti Ghosh-Batch 1977-8 Award for Excellence	1,800,000	-
65	1995 Batch Alumini Assistance Fund	3,225,224	-
66	CII-Gemini Property-Sudhakar R Rao	10,218,192	-
67	Prof. D.M. Vinodh Kumar-GM for Reseach Scho	450,000	-
68	Alumni Endowment 1997 Batch Assistance	7,343,059	-
69	Corpus Fund	622,730,360	608,387,627
70	Maintenance Fund	23,754,297	22,944,893
71	Depreciation Fund	27,085,265	25,949,328
72	Staff Development Fund	19,264,950	18,384,402
73	SBI Mutual Funds	60,000,000	60,000,000
	TOTAL	**783,258,537**	**742,624,039**

SCHEDULE 6 - INVESTMENTS - OTHERS	**CURRENT YEAR**	**PREVIOUS YEAR**
1. In Central Government Securities	-	-
2. In State Government Securities	-	-
3. Other Approved Securities	-	-
4. Shares	-	-
5. Debentures and Bonds	-	-
6. Others (to be specified)	-	-
TOTAL	**-**	**-**

SCHEDULE 7 - CURRENT ASSETS	CURRENT YEAR	PREVIOUS YEAR
1. Stock:		
a) Stores and Spares		
--- Stores and Spares	-	-
--- Loose Tools	-	-
--- Publications	-	-
--- Laboratory chemicals, consumables and glassware	-	-
--- Building Material	-	-
--- Electrical Material	-	-
--- Stationery	-	-
--- Water supply material	-	-
2. Sundry Debtors:		
a) Debts outstanding for a period exceeding six months	-	-
b) Others		
--- LC Suspense	3,386,798	3,386,798
--- FDD's	19,624,179	19,624,179
--- Fee Receivable	-	-
--- Plan Grant and Non Plan Grant Receivable	-	-
3. Cash and Bank Balances		
a) Cash Balance in hand(incl cheques / drafts and imprest)		
- Main Cash Balance	-	-
- Petty Cash Balance	-	-
- Imprest with department	580,000	590,000
b) With Scheduled Banks:		
- In Current Accounts	225,194,206	698,057,564
- In Term Deposit Accounts - **STDR**	3,241,971,976	1,728,951,411
- In Savings Accounts	331,916,564	964,800,548
c) With Non-Scheduled banks:		
- In Current Accounts	-	-
- In Term Deposit Accounts	-	-
- In Savings Accounts	-	-
4. Post Office- Savings Accounts	-	-
TOTAL	**3,822,673,723**	**3,415,410,500**

SCHEDULE 8 - LOANS, ADVANCES & DEPOSITS	CURRENT YEAR	PREVIOUS YEAR
1. Advances to employees (Non-interest bearing):		
a) Salary	-	-
b) Festival	-	-
c) LTC	2,271,536	1,932,846
d) Others (to be specified)	-	-
2. Long Term Advances to employees (Interest bearing)		
a) Vehicle loan	-	-
b) Home Loan	-	-
c) Others (to be specified)	-	-
3. Advances and other amounts recoverable in cash or in kind or for value to be received:		
a) On Capital Account	-	-
b) To Suppliers	-	-
c) Others	19,212,545	19,026,452
4. Prepaid Expenses		
a) Insurance	-	-
b) Other Expenses	-	-
5. Deposits		
a) Telephone	27,200	27,200
b) Lease Rent	-	-
c) Electricity	11,787,851	10,429,651
d) AICTE, if applicable	-	-
e) Others(to be specified)		
--- Deposit with Other Department (As per Annexure)	457,990	457,990
--- Other Dept / Contractors including CPWD	157,567,437	255,345,888
6. Income Accrued:		
a) On Investments from Earmarked/ Endowment Funds	48,324,944	29,603,788
b) On Investments- Others	146,189,049	13,262,469
c) On Loans and Advances	-	-
d) Others (includes income due unrealized)	-	26,877,560
7. Other Current Assets receivable from UGC / sponsored projects		
a) Debit balances in Sponsored Projects	33,828,877	36,030,330
b) Debit balances in Sponsored Fellowship & Scholarship	-	-
c) Grants Recoverable	167,412,058	-
d) Other receivables from UGC	-	-
8. Claims Receivable	-	-
TOTAL	**587,079,486**	**392,994,174**

SCHEDULE 9- ACADEMIC RECEIPTS

FEE FROM STUDENTS	CURRENT YEAR	PREVIOUS YEAR
A. Academic		
1.Tution fee	458,088,100	437,799,249
2. Admission fee	18,319,100	27,673,500
3. Enrolment fee	-	-
4. Library Admission fee	-	-
5. Laboratory fee	-	-
6. Art & Craft fee	-	-
7. Registration fee	-	-
Foreign Students	-	-
PG Students	-	-
8. Syllabus fee	-	-
9. INSTITUTE Resources Fund	-	-
TOTAL (A)	**476,407,200**	**465,472,749**
B. Examinations		
1. Admission Test fee	-	-
2. Annual Examination fee	-	-
3. Marksheet, Certificate fee	-	-
4. Entrance Examination Fee	-	-
TOTAL (B)	**-**	**-**
C. Other fees		
1. Identity Card fee	-	537,150
2. Fine/ Miscellaneous fee	-	-
3. Medical fee	-	-
4. Transportation fee	-	-
5. Hostel fee	-	-
TOTAL (C)	**-**	**537,150**
D. Sale of Publications		
1. Sale of Admission forms	-	-
2. Sale of Syllabus and Question paper, etc.	-	-
3. Sale of Prospectus including admission forms	-	-
TOTAL (D)	**-**	**-**
E.Other Academic Receipts		
1. Registration fee for workshops, programmes	-	-
2. Registration fees (Academic Staff INSTITUTE)	-	-
TOTAL (E)	**-**	**-**
GRAND TOTAL (A+B+C+D+E)	**476,407,200**	**466,009,899**

SCHEDULE 10 - GRANTS / SUBSIDIES (IRREVOCABLE GRANTS RECEIVED)	CURRENT YEAR	PREVIOUS YEAR
Balance B/f	-	-
Add: Receipts during the year	2,314,093,699	1,877,979,000
Total	2,314,093,699	1,877,979,000
Less: Refunded to UGC	-	-
Balance	2,314,093,699	1,877,979,000
Less: Utilized for Capital Expenditure (A)	-	-
Balance	2,314,093,699	1,877,979,000
Less: Utilized for Revenue Expenditure (B)	2,314,093,699	1,877,979,000
TOTAL	-	-

SCHEDULE 11- INCOME FROM INVESTMENTS	CURRENT YEAR	PREVIOUS YEAR
1. Interest		
a) On Govt. Securities	-	-
b) Other Bonds/ Debentures	-	-
2. Interest on Term Deposits	112,399,540	113,464,669
3. Income accrued but not due on Term Deposits / Interest bearing advances to employees	-	-
4. Interest on Savings Bank Accounts	55,049,343	4,160,412
4. Others (Specify)	-	-
TOTAL	**167,448,883**	**117,625,081**

SCHEDULE 12- INTEREST EARNED	CURRENT YEAR	PREVIOUS YEAR
1. On Savings Accounts with Scheduled Banks	-	-
2. On Loans		
a) Employees / Staff	-	-
b) Others	-	-
3. On Debtors and Other Receivables	-	-
TOTAL	**-**	**-**

SCHEDULE 13- OTHER INCOME A.Income from Land & Building	CURRENT YEAR	PREVIOUS YEAR
1. Hostel Room Rent	18,450,900	12,532,650
2. License fee	3,808,358	2,966,408
3. Hire Charges of Auditorium/Play ground/Convention Centre,etc.	-	-
4. Electricity Charges recovered	27,540,349	14,354,933
5. Water Charges recovered	75,850	85,260
Total (A)	**49,875,457**	**29,939,251**
B. Sale of Institute's Publications	-	-
C. Income from from holding events		
1.Gross Receipts from annual function/sports caenival	-	-
Less : Direct Expenditure incurred on the annual function/sports carnival	-	-
2. Gross Receipts from fetes	-	-
Less : Direct Expenditure incurred on the fetes	-	-
3. Gross Receipts for educational tours	-	-
Less : Direct Expenditure incurred on the tours	-	-
4. Others (to be specified and separately disclosed)	-	-
TOTAL(C)	-	-
D. Others		
1. Income from Consultancy	5,505,306	2,845,053
2. RTI Fees	-	-
3. Income from Royalty	-	-
4. Sale of application form (recruitment)	4,404,303	-
5. Misc. receipts (Sale of tender form, waste paper, etc.)	-	-
6. Profit on Sale/ Disposal of Assets:	-	-
a) Owned Assets	-	-
b) Assets acquired out of grants, or received free of cost	-	-
7. Grants / Donations from Institutions, Welfare Bodies and International Organizations	-	-
8. Others		
--- Rent from Guest House	5,882,545	1,104,741
--- Other Miscelleneous Income	38,222,970	140,554,638
TOTAL(D)	**54,015,124**	**144,504,432**
GRAND TOTAL (A+B+C+D)	**103,890,581**	**174,443,683**

SCHEDULE 14- PRIOR PERIOD INCOME Particulars	CURRENT YEAR	PREVIOUS YEAR
1. Academic Receipts	-	-
2. Income from Investments	-	-
3. Interest Income	-	-
4. Income & Expenditure Appropriation A/c (Prior Period Adjustment)	-	-
5. Other Income	-	-
TOTAL	**-**	**-**

SCHEDULE 15- STAFF PAYMENTS & BENEFITS	CURRENT YEAR	PREVIOUS YEAR
a) Salaries and Wages	1,058,694,434	896,271,766
b) Allowances and Bonus - Bonus for Non Teaching Staff	-	-
c) Contribution to Provident Fund	-	-
d) Contribution to Other Fund (Specify)	-	-
e) Staff Welfare Expenses	23,619,591	23,819,531
f) Retirement and Terminal Benefits	466,540,613	405,495,210
g) LTC facility	7,435,978	7,391,991
h) Medical facility	-	-
i) Children Education Allowance	8,433,445	8,218,120
j) Honorarium	-	-
k) Others (Specify)	-	-
--- Amenities to Staff & Students	2,307,233	-
--- EL Encashment	244,023	512,996
--- Overtime Allowance	-	-
--- Leave Encashment	35,630,921	19,382,090
--- Arrears of Salary	-	-
--- Daily wage / consolidated / Outsourcing charges	73,992,470	73,002,965
TOTAL	**1,676,898,708**	**1,434,094,669**

SCHEDULE 16- ACADEMIC EXPENSES	CURRENT YEAR	PREVIOUS YEAR
a) Laboratory Expenses	-	-
b) Field work/ Participation in Conferences	-	-
c) Expenses on Seminars / Workshops	2,884,306	924,521
d) Payment to Visiting Faculty - Contingency for Spl Faculty & Allowances	37,170,604	24,631,163
e) Examination	-	-
f) Student Welfare expenses	-	-
g) Admission expenses	-	-
h) Convocation expenses	-	-
i) Publications	-	-
j) Stipend/ means-cum-merit scholarship	370,470,175	362,662,740
k) Subscription expenses	-	-
l) Others (Specify)	-	-
--- Professional Development Allowance	12,563,934	-
TOTAL	**423,089,019**	**388,218,424**

SCHEDULE 17- ADMINISTRATIVE AND GENERAL EXPENSES	CURRENT YEAR	PREVIOUS YEAR
A. Infrastructure		
a) Electricity and Power	63,545,613	19,686,439
b) Water charges	8,871,042	6,800,423
c) Insurance	-	-
d) Rent, Rates and Taxes (including property tax)	36,000	1,031,776
B. Communication	-	-
e) Postage and telegram	-	-
f) Telephone, Fax and Internet Charges	2,887,928	2,167,979
C. Others	-	-
g) Printing and Stationary (Consumption)	2,535,564	1,146,906
h) Travelling and Conveyance Expenses	12,873,726	7,315,194
i) Hospitality	-	-
j) Auditor's Remuneration	224,000	490,000
k) Professional Charges - Legal Charges	1,739,284	682,900
Balance C/d	**92,713,157**	**39,321,617**
Balance B/d	92,713,157	39,321,617
l) Advertisement and Publicity	3,686,280	1,919,219
m) Magazines and Journals	-	-
n) Others (Specify)	-	-
--- DOC - Contingent Expenses	22,078,316	10,231,948
--- Security Staff Salaries (Temporary Staff)	50,648,103	39,393,514
--- Conservancy Charges	10,635,037	12,998,557
--- Guest House Charges	5,771,002	1,485,646
--- Other Miscelleneous Expenses	5,657,669	20,049,654
--- Interest on Provident Fund	-	-
TOTAL	**191,189,564**	**125,400,155**

SCHEDULE 18- TRANSPORTATION EXPENSES	CURRENT YEAR	PREVIOUS YEAR
1. Vehicles (owned by educational institution)		
a) Running Expenses	2,422,691	1,989,731
b) Repairs and Maintenance	-	-
c) Insurance Expenses	65,508	8,645
2. Vehicles taken on Rent/ Lease	-	-
a)Rent/ Lease Expenses	-	-
3. Vehicle (Taxi) hiring expenses	-	-
TOTAL	**2,488,199**	**1,998,376**

SCHEDULE 19- REPAIRS AND MAINTENANCE	CURRENT YEAR	PREVIOUS YEAR
a) Building	104,491,377	116,594,797
b) Furnitures and Fixtures	-	-
c) Plant and Machinery	-	-
d) Office Equipment	1,255,565	860,549
e) Computers	-	-
f) Laboratory & scientific equipment	-	-
g) Audit Visual Equipment	-	-
h) Cleaning Material & Services	-	-
i) Book binding charges	-	-
j) Gardening	-	-
k) Estate Maintenance	-	-
l) Others (Specify)	-	-
TOTAL	**105,746,942**	**117,455,346**

SCHEDULE 20- FINANCE COSTS	CURRENT YEAR	PREVIOUS YEAR
a) Bank Charges	-	-
b) Others (Specify)	-	-
TOTAL	**-**	**-**

SCHEDULE 21- OTHER EXPENSES	CURRENT YEAR	PREVIOUS YEAR
a) Provision for Bad and Doubtful Debts/ Advances	-	-
b) Irrecoverable Balances Written-off	-	-
c) Grants / Subsidies to other Institutions / Organizations	-	-
c) Others (Specify)	290,291	388,161
TOTAL	**290,291**	**388,161**

SCHEDULE 22- PRIOR PERIOD EXPENSES	CURRENT YEAR	PREVIOUS YEAR
1. Establishment Expenses	-	-
2. Academic Expenses	-	-
3. Administrative Expenses	-	-
4. Transportation Expenses	-	-
5. Repairs & Maintenance	-	-
c) Other Expenses - Industrial Consultancy Centre	21,987,190	16,609,688
TOTAL	**21,987,190**	**16,609,688**

NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL

CONSOLIDATED RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31-03-2023

(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	1,676,898,708	1,434,094,669
--- Main Cash Book	-	-	b) Academic Expenses	423,089,019	388,218,424
--- Petty Cash Book	-	-	c) Administrative Expenses	191,189,564	125,400,155
--- Imprest withDepartments	590,000	330,000	d) Transportation Expenses	2,488,199	1,998,376
--- Fee Account (Cash)	-	-	e) Repairs & Maintenance	105,746,942	117,455,346
			f) Prior Period Expenses	-	-
b) Bank Balances					
--- In Current Accounts	697,486,732	474,707,608	**II. Payments made against Earmarked / Endowment Funds**		
--- In Deposit Accounts	-	-	--- Earmarked Fund	643,942,008	204,959,162
--- Savings Account (others)	747,965,235	34,031,157	--- Endowment Fund	359,630	2,530,742
--- Fee Bank A/c(Current)	556,512	119,743			
--- EMD (Current)	14,320	13,939	**III. Payments against Sponsored Projects / Schemes**	234,160,714	134,261,112
--- Kotak Mahindra Bank	216,835,313	4,885,738			
II. Grants Received			**IV. Payments against Sponsored Felllowships / Scholarships**	-	-
a) From Govt. of India					
--- Towards Capital Fund	293,100,000	126,004,544	**V. Investments and Deposits made**		
--- Towards Revenue Exp	2,314,093,699	1,877,979,000	a) Out of Earmarked / Endowments funds	23,465,876	-
--- L/Yr Receivable	-	-	b) Out of Own funds	25,320,565	180,430,131
b) From State Government	-	-			
c) From Other Sources - TLC	-	-	**VI. Term Deposits with Scheduled Banks**	2,269,117,016	2,103,413,337
III. Academic Receipts (As per Annexure)	513,933,008	485,499,854	**VII. Expenditure on Fixed Assets and Capital Works - in - Progress**		
			a) Fixed Assets	434,241,272	205,611,631
IV. Receipts against Earmarked / Endowment Fund					
			b) Capital Work - in - Progress	215,646,606	-
--- Earmarked Fund	775,406,352	245,786,296	c) Fixed Assets (TEQIP)	71,168,434	-
--- Endowment Fund	23,247,684	-			
V. Receipts against Sponsored Projects / Schemes	168,738,048	295,522,155	**VIII. Other Payments including statutory payments**		
			--- Statutory Liabilities	328,761,660	282,427,784
VI. Receipts against Sponsored Fellowships and Scholarships	-	-	--- ICC - Consultancy Charges	112,205	-
			IX. Refunds and Grants	-	-
VII. Income on Investments from					
--- Earmarked / Endowment Funds	848,879	2,577,140	**X. Deposits and Advances**		
--- Other Investments	-	-	--- Other Deposits	33,666,594	37,940,209
			--- Advances Accounts	225,646,997	178,468,860
VIII. Interest received on					
--- Bank Deposits	112,399,540	113,464,669	**XI. Other Payments**		
--- Loand and Advances	-	-			
--- Savings Bank Account	55,049,343	4,160,412	--- Outstanding Liabilities	105,143,842	90,368,127
			--- Purchases Accounts	-	40,433,729
IX. Investment encashed	-	-	--- Deposit with TSNPDCL	1,358,200	-

			--- Interest Transfer	290,291	388,161
X. Term Deposits with Scheduled Banks encashed	631,941,982	2,960,471,784	--- Prior Period Items	-	484,554,012
			--- Outstanding Receivable	-	26,877,560
XI. Other Income (including PPI)			--- Intrest receivable on STDR's	21,529,307	2,187,983
			--- Depeciation (CAG Comments)	25,253,568	
--- Income from L & B	28,141,803	16,603,799	**XII. Closing Balances**		
--- Other Income	38,222,970	138,349,929	a) Cash in hand		
			--- Main Cash Book	-	-
XII. Deposits & Advances			--- Petty Cash Book	-	-
			--- Imprest with Departments	580,000	590,000
--- Other Deposits	34,398,108	16,933,107			
--- Advances Accounts	322,900,665	14,471,966	--- Fee Account (Cash)	-	-
XIII. Miscelleneous Receipts including Statutory Receipts			**b) Bank Balances**		
--- Statutory Liabilities	329,833,116	263,091,901	--- In Current Accounts	221,700,056	685,108,246
--- ICC Consultancy charges	112,205	-	--- In Deposit Accounts	-	-
			--- Savings Account (Others)	39,505,047	108,465,235
XIV. Any Other Receipts					
--- Purchase Accounts	-	40,765,027	--- Fees Bank account	3,332,940	556,512
--- Fixed Assets (CAG-21-22)	64,589,281	-	--- EMD A/c	14,710	14,320
			--- Kotak Mahindra Bank (Fee a/c)	285,404,291	216,835,313
--- Outstanding Liabilities	127,233,417	105,143,842	--- Indian Overseas Bank-SB	1,179,147	639,500,000
--- Prior Period Items	-	484,554,012	--- Kotak Mahindra Bank - CA	146,500	12,378,486
--- Depreciation (CAG-21-22)	3,266,177	-	--- Kotak Mahindra Bank -41263 (GH)	5,828,079	-
--- Capital Fund (CAG-21-22)	15,149,621	-			
--- Capital Fund (TEQIP FA)	71,168,434	-			
--- Electricity & Water chg rec	26,877,560	-			
--- Interest receivable (21-22)	2,187,983				
	7,616,287,987	**7,705,467,622**		**7,616,287,987**	**7,705,467,622**

NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL

PROVIDENT FUND ACCOUNT

RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31-03-2023

. (Amount in Rupees)

RECEIPTS	Current Year	Previous Year	PAYMENTS	Current Year	Previous Year
Opening Balances:			**GPF Advance / Withdrawn**	62,575,635	58,068,090
a) Cash in hand	-	-			
b) Bank Balances			**CPF Advance / Withdrawn**	-	-
--- SBI SB Account	5,576,941	17,608,436			
			NPS Tier - II	54,445,554	42,212,439
G P F Subscription	34,097,576	35,335,587			
			University Contribution Withdrawl	74,823,864	59,097,304
C P F Contribution	-	-			
			Term Deposits with Scheduled Banks	375,299,530	153,750,336
C P F University Contribution(NPS)	75,188,812	57,430,832			
			Bank Charges / Misc Charges	708	-
NPS Tier II Account	54,704,859	41,022,088			
			Closing Balances		
Term Deposits with ScheduledBanks encashed	373,298,810	167,003,055	a) Cash in hand	-	-
			b) Bank Balances		
Interest Received			--- SBI SB - 4765	493,388	5,576,941
a) Interest on STDR's	26,140,278	-	--- SBI SB - 5550	1,614,808	-
b) Interest on SB Account	246,210	305,112			
	569,253,487	**318,705,110**		**569,253,487**	**318,705,110**

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31-03-2023

. (Amount in Rupees)

EXPENDITURE	Current Year	Previous Year	INCOME	Current Year	Previous Year
			Interest Earned on Investements inclu-		
Interest credited to				689,233	305,112
--- GPF Account	17,347,328	16,149,999	ding Savings Bank Account		
			Add: Interest accrued on 03/2023	17,153,751	16,292,593
			Add: Interest received during the		
--- CPF Account	-	-	year	-	
			Add: Tax recovered on Interest -		
			Refund	-	-
--- University Contribution (NPS)	-	-	to be obtained		
--- NPS Tier - II Account	-	-	Less: Interest accrued for 03/2022	-	-
Bank Charges / Miscelleneous Exp	708	-			
Excess of Income over Expenditure	494,948	447,706	Excess of Expenditure over Income	-	
	17,842,984	**16,597,705**		**17,842,984**	**16,597,705**

BALANCE SHEET AS AT MARCH 31, 2023

(Amount in Rupees)

LIABILITIES	Current Year	Previous Year	ASSETS	Current Year	Previous Year
GPF:			**Investments**	328,251,596	326,147,197
Opening Balance	345,462,104	350,731,908			
Less: Subscription for March 2022	-	-	**Interest accrued as on March, 2023**	5,395,262	14,042,446
Add: Subscriptions in the year	34,097,576	35,335,587			
Add: Subscriptions for March 2023	-	-	**Subscription Due for March, 2023**		
Add Interest Credited	17,347,328	16,149,999	--- GPF	-	-
Less: Advance / withdrawl	(62,575,635)	(58,068,090)	--- CPF	-	-
Add: GPF Advance (adj)	(87,675)	1,312,700			
Closing Balance	334,243,698	345,462,104	--- UC due to CPF	-	-
			--- NPS - II	-	-
CPF:					
Opening Balance	-	-	Tax recovered from interest on investments pending refund from Income taxdept	-	-
Less: Subscription for March 2022	-	-			
Add: Subscriptions in the year	-	-			
Add: Subscriptions for March 2023	-	-	**Cash at Bank**		
Add Interest Credited	-	-	--- SBI SB - 4765	493,388	5,576,941
Less: Advance / withdrawl	-	-	--- SBI SB - 5550	1,614,808	-
Closing Balance	-	-			
NPS Tier- II Account			GPF Advance Receivable	1,225,025	1,312,700
Opening Balance	204,498	1,394,849			
Less: Subscription for March 2022	-	-			
Add: Subscriptions in the year	54,704,859	41,022,088			
Add: Subscriptions for March 2023	-	-			
Add Interest Credited	-	-			
Less: Advance / withdrawl	(54,445,554)	(42,212,439)			
Closing Balance	463,803	204,498			
University Contribution (NPS):					
Opening Balance	771,898	2,438,370			
Less: Subscription for March 2022	-	-			
Add: Subscriptions in the year	75,188,812	57,430,832			
Add: Subscriptions for March 2023	-	-			
Add Interest Credited	-	-			
Less: Advance / withdrawl	(74,823,864)	(59,097,304)			
Closing Balance	1,136,846	771,898			
Interest Reserve					
Opening Balance	640,784	193,078			
Add: Excess of Income over Exp	494,948	447,706			
Closing Balance	1,135,732	640,784			
	336,980,079	**347,079,284**		**336,980,079**	**347,079,284**

SCHEDULE: 23

SIGNIFICANT ACCOUNTNG POLICIES

1. BASIS FOR PREPARATION OF ACCOUNTS:

The Accounts are prepared under the Historical Cost Convention unlessotherwise stated and generally on the accrual method of accounting.

2. REVENUE RECOGNITION

2.1 All Revenues and Expenses are accounted on accrual basis including interest received on bank deposits and government grants.

2.2 Rent collected from Post Office and Shops are accounted on Cash Basis.

3. FIXED ASSETS AND DEPRECIATION

3.2 Fixed assets are stated at cost of acquisition including inwards freight, duties andtaxes and incidental and direct expenses related to acquisition, installation and commissioning.

3.3 During the year, the Institute capitalized an amount of Rs.53.09 crores.

3.4 Fixed assets are valued at cost. Depreciation on fixed assets during the year has been provided in the books of accounts on straight line method at the rates prescribed by MHRD.

3.5 Further arrears of depreciation for the year 2020-21 and 2021-22 amounting to Rs.2.19 crores was provided in the books of accounts during the year and shown under prior period expenses as per the AG audit observation on annual accounts during the year 2021-22.

3.6 Fixed Assets purchased under TEQIP Project sponsored by World Bank in various phases (I, II, III and CoE) was accounted in Institute Books of account duly reducing the depreciation on such assets up to 31.03.2023. The WDV of the Fixed Assets as on 31.03.2023 is Rs.7.12 crores. The said amount was included in Capital / Corpus Fund during the year.

4. **STOCKS:** Expenditure on purchase of chemicals, glassware, publications and other stores is accounted as revenue expenditure, except that the value of closing stocks held on 31st March is set up as inventories by reducing the corresponding Revenue Expenditure on the basis of information obtained from Departments. The closing stock as at 31st March is NIL.

5. RETIREMENT BENEFITS

Provision towards retirement benefits has not been made.

6. INVESTMENTS: - Nil -

7. **Earmarked / Endowment Funds:** During the year, the Institute has received an amount of Rs.74.54 crores towards various Earmarked / Endowment Funds and expenditure of Rs.62.63 crores was spent during the year.

8. **CORPUS FUND / OTHER FUNDS.** The closing balance of Corpus / Capital fund to the end of March-2023 is Rs.834.35 crores.

9. GOVERNMENT AND UGC GRANTS

9.1 Government Grants and UGC Grants are accounted on realization basis. However, where a sanction for release of grant pertaining to the financial year is received before 31st March and the grant is actually received in the next financial year, the grant is accounted on accrual basis and an equal amount is shown as recoverable from the Grantor.

9.2 To the extent utilized towards capital expenditure, (on accrual basis) government grants and grants from UGC are transferred to the Capital Fund.

9.3 Government and UGC grants for meeting Revenue Expenditure (on accrual basis) are treated as income of the year.

9.4 Unutilized grants (including advances paid out of such grant) are carried forward and exhibited as a liability in the Balance sheet

10. INVESTMENTS OF EARMARKED FUNDS AND INTEREST INCOME ACCRUED ON SUCH INVESTMENTS:

The Institute has made investments separately and interest on such earmarked funds is Rs.511.63 lacs earned during the year.

11. **SPONSORED PROJECTS:** During the year, an amount of Rs.16.87 crores were received against various research scheme from various agencies and incurred an amount of Rs.23.42 crores towards execution of various research projects.

12. INCOME TAX

The income of the Institution is exempt from Income Tax under Section 10(23C)(iiiab) ofthe Income Tax Act 1961. No provision for tax is therefore made in the accounts.

13. LAND:

Total land under the control of NITW is 248 acres. Out of the total land availablewith the Institute, land given on lease to the following departments / entities.

a) Land admeasuring 4000 Sq. mtrs leased to TSNPDCL, Warangal

b) Land admeasuring 1446 Sq. mtrs leased to DGM, BSNL, Warangal

c) Land admeasuring 1255 Sq. mtrs leased to SBI, NIT Branch.

d) Land admeasuring 816 Sq. mtrs leased to Superintendent of Post Office, Hanamakonda

e) Land admeasuring 1750 Sq. mtrs leased to Commissioner, GWMC.

f) Land admeasuring 510.26 Sq. mtrs leased to District Educational Officer, Warangal

g) Balance of land available with NIT, Warangal

SCHEDULES 24: CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS:ITEMS TO BE COVERED IN THIS SCHEDULE ARE LISTED BELOW

A. CONTINGENT LIABILITIES:

1.	Claim against the Entity not acknowledged as debts	--- Nil ---
2.	Guarantees and Letters of credit outstanding	--- Nil ---
3.	Other items for which the entity is contingently liable	--- Nil ---

B. NOTES ON ACCOUNTS:

1.	Commitments on Capital Account	This would arise in terms of contracts /

	not provided for	arrangements in terms of which amounts would have to be paid for acquisitions / constructions of assets as and when they take place. The amount, net of advances is required to be disclosed -- Nil ---
2.	Educational institutions should host following information in public domain so as to enable all other stakeholders to have a bird's eye view of educational institutions' capacity and capability	
(i)	No of students	7167
(ii)	No of teachers	309
(iii)	Collection on account of building fund and expenditure thereof	Nil
(iv)	Collection for sports activities and expenditure thereof	Amount Collected : Rs.72,49,200/- Expenditure incurred : Rs.40,04,119/-
(v)	Collection for co-curricular activities and expenditure thereof	Amount Collected : Rs.69,71,500/- Expenditure incurred : Rs.2,05,973/-
(vi)	Collection on account of development charges and expenditure thereon	Nil
(vii)	Collection for medical expenses and expenditure thereon	Amount Collected : Rs.1,08,23,804/- Expenditure incurred : Rs.56,62,311/-
(viii)	Compliance with statutory dues like EPF and ESI	Complied
(ix)	Salary structure of teachers	

The above information can also be calculated on per student basis.

3. **Related Party Disclosures: --- No transactions were taken place during the financial year with related party. –**

4. The accounting entries passed in the accounts of the Institute pertains to earlier years as per AG Audit comments on annual accounts for the year 2021-22 and shown separately in Receipts and Payments Account under relevant heads.

5. During the year, the Institute has accounted the fixed assets pertains to TEQIP amounting to Rs.7.12 crores net of depreciation up to 31.03.2023 and Gross Block of assets and Accumulated depreciation up to 31.03.2023 was shown under opening balance columns of Schedule – IV (TEQIP) since the assets were transferred net of depreciation up to 31.03.2023.

6. The expenditure under various works executed by CPWD up to 31.03.2023 was transferred to CWIP amounting to Rs.19.77 crores and also shown as capital grant utilized in Schedule – 3(c) of Balance Sheet Schedule. The amounts incurred in excess of

available grant under Capital – 35 amounting to Rs.16.74 crores was shown as receivableunder Schedule-8.

7. Receipts and Payments account was prepared considering total debits and credits in the accounts instead of on cash basis of account.

No.PDA(C)/CEA/NITW/SAR 2022-23 / 2023-24 **Date: 19.10.2023**

सेवा में,
सचिव,
भारत सरकार,
शिक्षा मंत्रालय,

महोदय,

वषय: Separate Audit Report on the Accounts of the National Institute of Technology,Warangal, for the year 2022-23.

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Separate Audit Report on the Accounts of the National Institute of Technology, Warangal, for the year 2022-23, Annexure thereof and one copy of the Annual Accountsfor the year 2022-23, 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.

भवदीय,

संल:यथोपरर

Sd/-

Principal Director of Audit (Central)

No.PDA(C)/CEA/NITW/SAR 2022-23 / 2023-24 **Date: 19.10.2023**

Copy to Prof. Bidyadhar Subudhi, Director, National Institute of Technology, Warangal, along with one copy of Annual Accounts for the year 2022-23 (English version), with a request to furnish Hindi version of the approved Annual Accounts 2022-23 (2 sets), to this Office.

संल:यथोपरि

Ch.V.Sai Prasad

(Ch.V. Sai Prasad)
Director/ Central Expenditure Audit
O/o Principal Director of Audit (Central)

Separate Audit Report of the Comptroller and Auditor General of India on the Accounts of National Institute of Technology, Warangal, for the year ended 31 March 2023

We have audited the attached Balance Sheet of National Institute of Technology, Warangal (NITW), as at 31 March 2023, 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 auditincludes examining, on a test basis, evidences 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 thatour 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 theInstitute as required, in so far as it appears from our examination of such books.

iv. We further report that:

A Consolidated Balance Sheet

A.1 Application of Funds

A.1.1 Current Assets – ₹382.27 crore

Reference Number: OBS-878483

An amount of ₹99,57,641 being the fee receivable was not accounted for in Annual Accounts, though the significant accounting policy No 2.1 of the Institute stipulated that all revenues and expenses are accounted on accrual basis including interest received on bank deposits and government grants. This has resulted in understatement of Income/Surplus with consequent understatement of Corpus/Capital Fund and Current Assets by ₹99.58 lakh.

A.1.2 Loans Advances & Deposits - ₹58.71 crore

Reference Number: OBS-878401

An amount of ₹16,74,12,058 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.

B. Income and Expenditure Account

B.1 Reference Number: OBS-874345 & 875594

Income and Expenditure relating to the heads of accounts mentioned in Annexure-A was included under Schedule-2 of Endowment/Earmarked funds instead of routing through Income and Expenditure Account. This resulted in understatement of Income by ₹50,73,48,456 and Expenditure by ₹50,77,19,994 for the year 2022-23. Further, the excess of Income over Expenditure was also understated by ₹2,89,03,560.

B.2 Reference Number: OBS-850562

An amount of ₹7,49,92,470 incurred towards payment of daily wage / consolidated / outsourcing charges has been booked under Schedule 15 (Staff Payments & Benefits-OH 36) instead of Schedule 17 (Administrative and General Expenses-OH 31), which is in contravention of the principles of Grants. This needs to be reviewed and expenditure needs to be booked under the relevant Head of Account.

C. General

Reference Number: OBS-850649

C.1 Provision for payment of retirement benefits i.e., Gratuity, Leave Encashment and Superannuation Pension was not created as per Accounting Standard 15. The same was commented upon in previous year's SAR also.

Reference Number: OBS-873734

C.2 The difference of ₹98,24,402 between the balance available with CPWD as per Annual Accounts (₹5,02,66,581) and the balance as per CPWD Form-65 (₹6,00,90,983) needs to be reconciled and rectified.

Reference Number: OBS-873978

C.3 An amount of ₹5,90,026[1] being the overdue statutory liabilities were not exhibited separately as stipulated in format of Financial Statements for Central Higher Educational Institutions. This needs to be reconciled and rectified.

D. Grants-in-aid

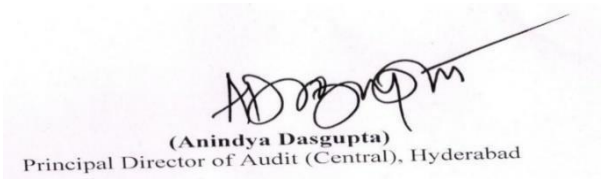
NIT, Warangal received an amount of ₹260.72[2] crore towards Grants-in-aid during the year and utilised fully as on 31 March 2023.

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 acceptedin 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 2023; and

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



(Anindya Dasgupta)
Principal Director of Audit (Central), Hyderabad

[1] Sales Tax: ₹2,94,218 and Seigniorage Charges: ₹2,95,808

[2] Capital – ₹29.31 crore, Revenue – ₹231.41 crore Total = ₹260.72 crore

ANNEXURE

1. Adequacy of Internal Audit System: Internal Audit Wing was established in August 2023; however, Internal audit was not conducted during the year 2022-23.

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

3. System of Physical verification of fixed assets: Physical verification of Fixed assets has not been conducted for the year 2022-23.

4. System of Physical verification of inventory: Physical verification of inventory has not been conducted for the year 2022-23.

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

Ch.V.Sai Prasad

(Ch.V. Sai Prasad)
Director/ Central Expenditure Audit
O/o Principal Director of Audit (Central)

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL



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