

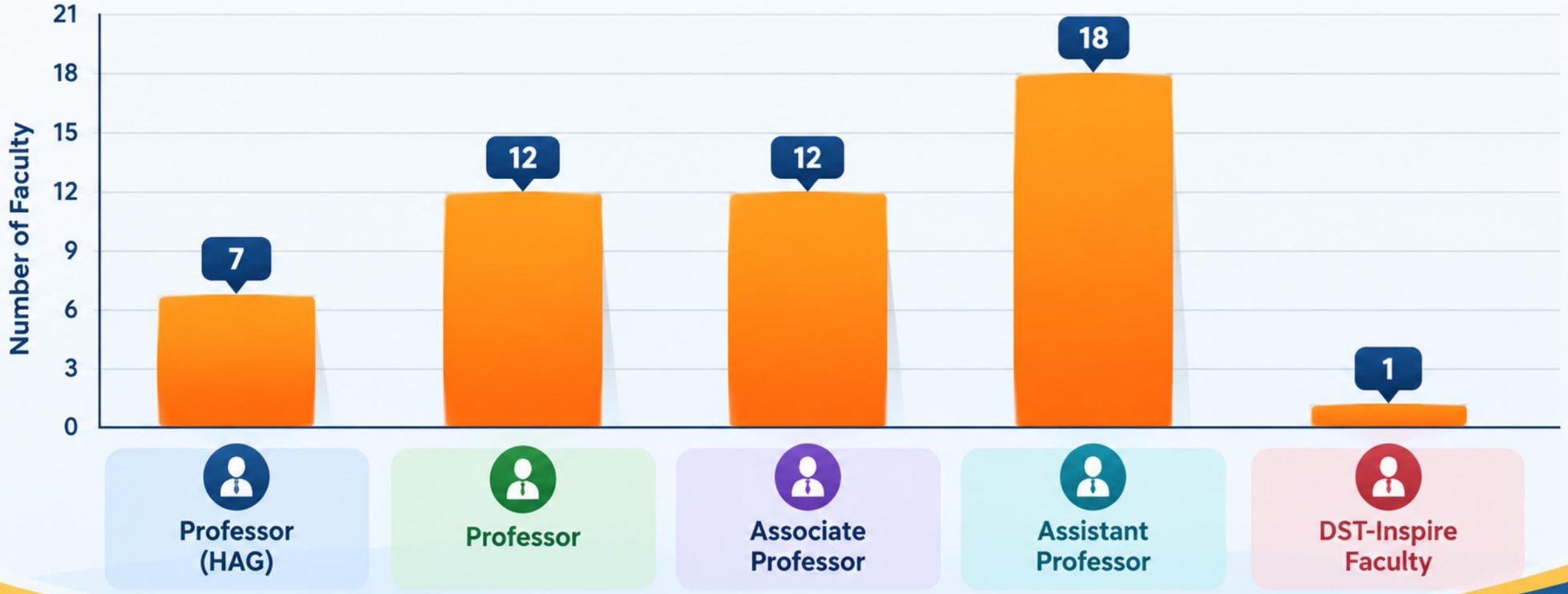
Profile -
Department of Civil Engineering

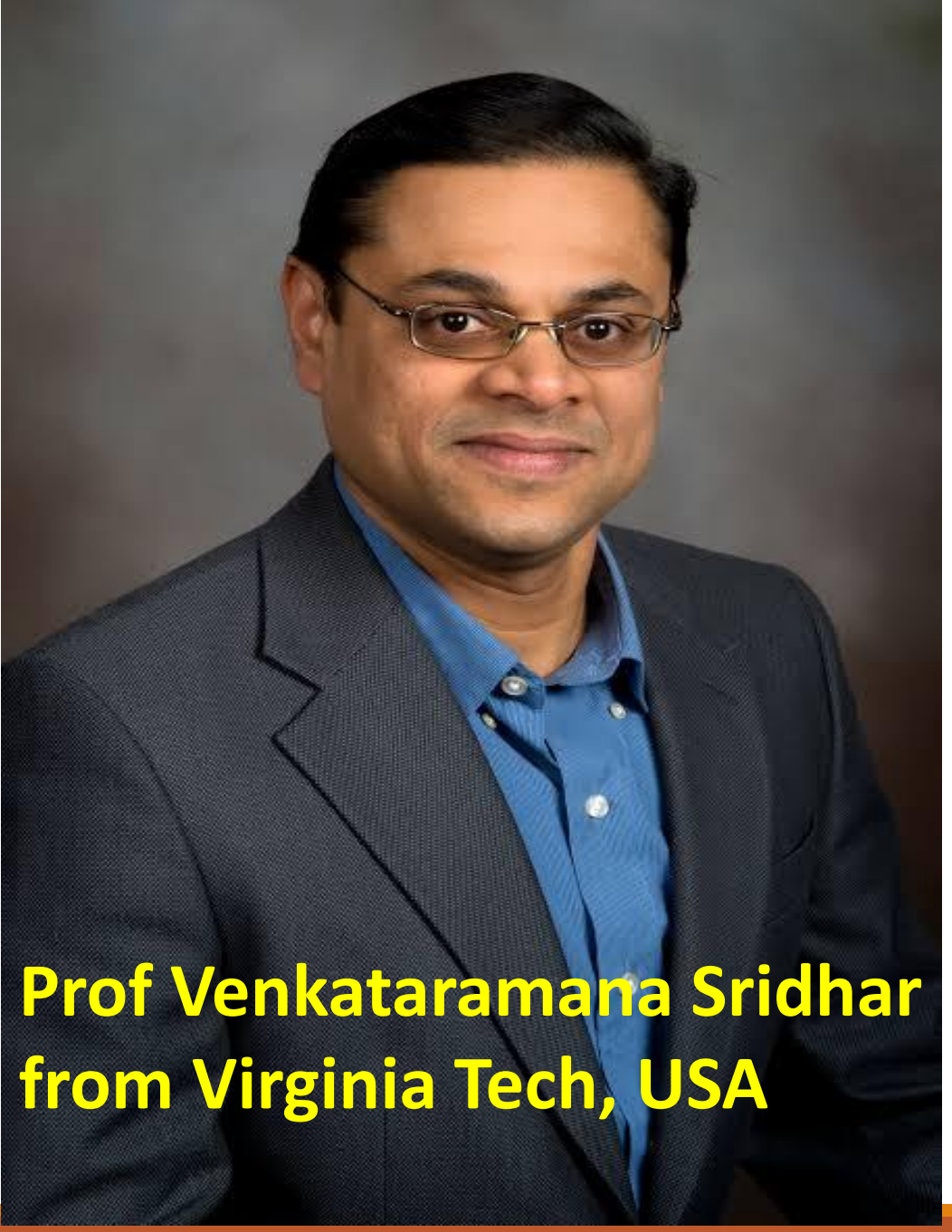
Programs Offered

Program	Degree Offered	Specialization
UG	B. Tech	Civil Engineering
PG	M. Tech	Construction Technology & Management
		Environmental Engineering
		Engineering Structures
		Geoinformatics
		Geotechnical Engineering
		Transportation Engineering
		Water Resources Engineering
PhD		

Faculty

Faculty Strength by Designation





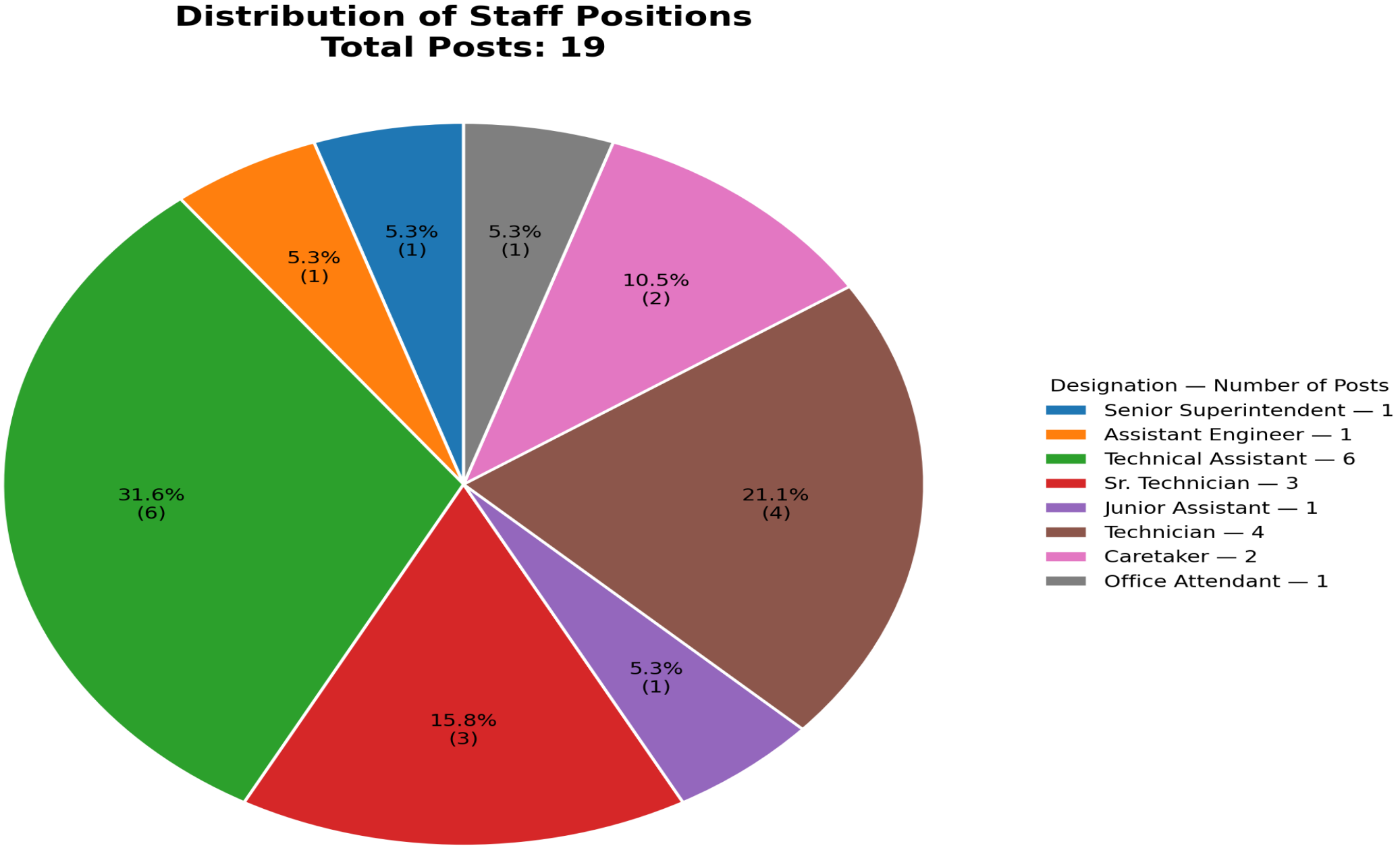
Prof Venkataramana Sridhar from Virginia Tech, USA

Two honorary adjunct professors



Prof Nitin Kumar Tripathi from Asian Institute of Technology, Thailand

Non-Teaching Staff


Distribution of Staff Positions
Total Posts: 19
5.3%
(1)
5.3%
(1)
5.3%
(1)
10.5%
(2)
21.1%
(4)
5.3%
(1)
15.8%
(3)
31.6%
(6)
Designation — Number of Posts
Senior Superintendent — 1
Assistant Engineer — 1
Technical Assistant — 6
Sr. Technician — 3
Junior Assistant — 1
Technician — 4
Caretaker — 2
Office Attendant — 1



Sri. Ashok K Peddi
Senior Superintendent



Sri O Rakesh
Technical Assistant



Sri. U Pavankalyan
Technician



Sri. M. Sardar Singh
Assistant Engineer



Ms P Rajitha
Technical Assistant



Sri. S Kranthi Kumar
Technician



Sri K Ramesh
Technical Assistant



Sri. A Laxman
Senior Technician



Sri. Shabothu Akhil
Technician



Mrs E Ramani
Technical Assistant



Sri. Md. Abdul Gaffar
Senior Technician



Sri. G Srinivas
Technician



Mr G Suresh
Technical Assistant



Sri. K Mallikarjun
Senior Technician



Sri. M Ravi
Care Taker (SG-II



Sri. M Hari Bharghav
Technical Assistant



Sri. V. Ramesh
Junior Assistant



Sri. B. Kumara Swamy
Care Taker (SG -II)



Sri. D. Raju
Office Attendant

Program Coordinators



Prof. Nivea Thomas
Program Coordinator
Construction Technology and Management



Prof. Sumanth Chinthala
Program Coordinator
Environmental Engineering



Prof. B Narayana
Program Coordinator
Geo-Informatics



Prof. Arpan Mehar
Program Coordinator
Transportation Engineering



Prof. P Hari Krishna
Head of the Department



Prof. D Ravi Prasad
Program Coordinator
Engineering Structures



Prof. G V Ramana
Program Coordinator
Geotechnical Engineering



Prof. Jew Das
Program Coordinator
Water Resources Engineering

Construction Technology and Management



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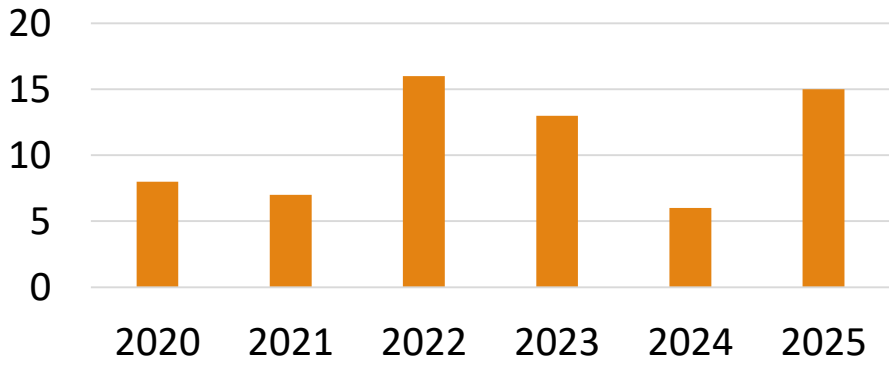
CTM: Research Activities

Research Specialization

- Lean Construction
- Quality and Safety Management
- Sustainable Construction Materials
- Building Information Modelling
- AR VR, Underground utility information management
- Digital Twin, nD Planning
- Project Complexity
- Air Transport Management
- Infrastructure Management and Policy

Faculty Strength	**4**
No. of Ongoing Research Projects	4
Total Publications in Last 6 Years	65
Patents Granted/Published and filed	03

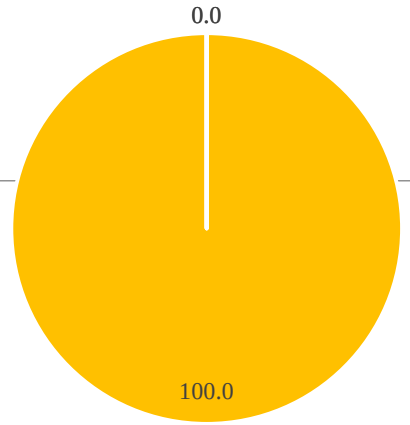
Publications in last 5 years



Total Research Funding from ongoing projects: 1.2116 Crores

S. No	Ongoing Project Title	Funding Agency	Budget (Rs. Lakhs)
1	Development of Digital Twin of underground utilities for Smart cities	SPARC	71.16
2	Development of Digital Twin (Predictive Twin) for underground utility information management	CSIR	30
3	Braided fiber reinforced polymeric rebars for concrete structures	NTTM, Ministry of Textiles	50.93
4	Geogrids for reinforcement of concrete slabs	NTTM, Ministry of Textiles	22.13

CTM: Program Activities



Placement Record

100 % Placement for M.Tech CTM 2023-2025 Batch

Workshops Organized

- SPARC Workshop on Digital Twinning of Underground Utilities
- Underground Utilities
- E&ICT Funded FDP on Smart Cities
- Centre for Teaching & Learning funded FDP on Research Methodology

MoU/ Collaborations

- Incircles Arena
- L&T, Institute of Project Management
- Bexel Consulting Engineers
- TU Delft University, Netherlands
- University of Twente, Netherlands
- CY Cergy Paris University, France

COLLABORATIONS:

L&T INSTITUTE OF PROJECT MANAGEMENT

CERGY PARIS UNIVERSITÉ

TU Delft Delft University of Technology

BEXEL MANAGER

UNIVERSITY OF TWENTE.

Environmental Engineering



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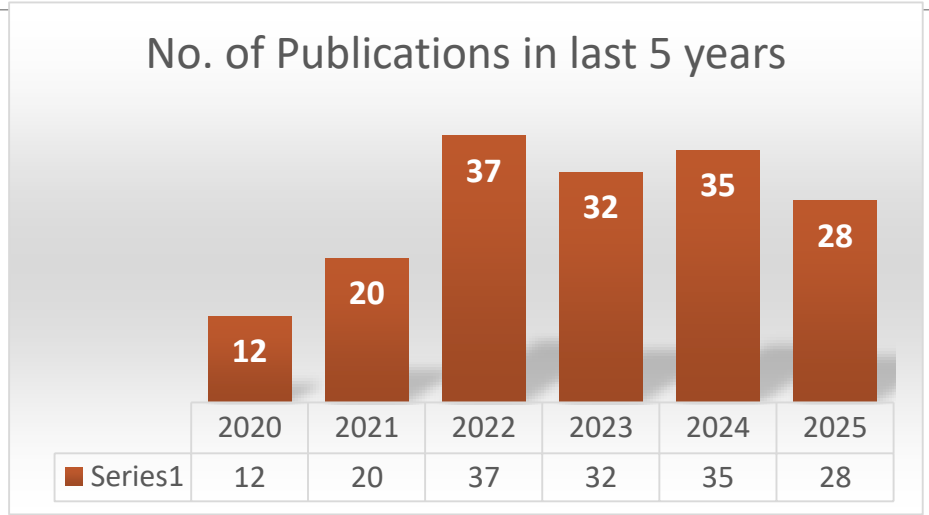


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Environmental Engineering

Name	Area of Specialization
Prof. M. Chandrasekhar (Professor)	Water, Wastewater Treatment, Industrial Wastewater Management, Air Quality Modelling.
Prof. P.V. Rao (Professor)	Wastewater Treatment, Waste Management, Anaerobic Digestion, Bioenergy.
Prof. Hari Prasad Reddy (Professor)	Solid Waste Management & Geoenvironmental Engineering
Prof. Ajey Patel (Associate Professor)	Computational fluid dynamics, Modeling
Prof. P. Sridhar (Assistant Professor)	Life Cycle Analysis, Bio-energy, Water and Wastewater treatment, Solid Waste and Hazardous Waste Management.
Prof. C. Sumanth (Assistant Professor)	Air pollution, EIA, Biofuels, Sustainability
Prof Anil (Assistant Professor)	Bioelectrochemical systems, Bio-electro-Fenton, Dark Fermentation, Electroconcentration for Nutrients Recovery, Emerging Contaminants Removal, Hydrogen Production, Microbial Electrolysis Cell, Microbial Fuel Cells, Wastewater Treatment

Faculty Strength	**7**
No. of Ongoing Research Projects	**3**
No. of Ongoing Consultancy Projects	**>20**
Total Publications in Last 5 Years	**164**



Total Funding from ongoing research projects: 88 Lakhs

Total Funding from ongoing consultancy projects: 1.5 Cr

S. No	Project Title	Funding Agency	Budget (Rs. Lakhs)
1	**Conversion of Napier grass to sugars using hydrothermal pre-treatment**	HIT LLT (Industry)	**5.61**
2.	**Developing a Novel Bio-refinery Platform combining Anaerobic Co-digestion and Bioelectrical Systems for efficient Resource Recovery and sustainable wastewater treatment**	SPARC	76.4

Laboratory Development Procurement of Instruments	
TOC analyser **(40 lakhs**)	Tender Floated
Particle Size analyser (72.15lakhs)	Approval Pending
Liquid Chromatography–Mass Spectrometer (1.18Cr)	Approval Pending
UV-Vis Spectrophotometer (7.67 lakhs)	Tender Preparation
Orbital Shaking Incubator (3.5 lakhs)	Tender Preparation
pH/ORP/ISE Benchtop Meter (2.34 lakhs)	Tender Preparation
Nitrogen and Protein analyzer (4.47 lakhs)	Tender Preparation
Biological Safety Cabinet (7.67 Lakhs)	Tender Preparation









Engineering Structures



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Research Specialization

- Special Concretes
- Computational Structural Mechanics
- Imaging based deterioration assessment
- Characterization of 3D Printed materials
- Health Monitoring of Structures
- Impact and Blast loads
- Fracture mechanics
- Structural dynamics & Earthquake engineering
- Structural Fire Engineering

Faculty Strength	13
No. of Ongoing Research Projects	6
Total Publications in Last 6 Years	347

	No	Amount (INR)
Patents (Granted)	5	-
Patents (Filed/Published)	8	-
Externally funded Research Projects	10	Rs 569.9 Lakhs
Consultancy (Average/year)	40	**Rs. 176.3 Lakhs**

Total Research Funding from ongoing projects: 3.8 Crores

S No	Year	Number of Consultancy Works	Amount (Rs.Lakhs)
1	2021-2022	45	**163.35**
2	2022-2023	62	**201.42**
3	2023-2024	58	**186.45**
4	2024-2025 (as on date)	52	**154.32**

Total Consultancy projects: 705.54 Lakhs (Approx.)

S. No	Project Title	Funding Agency	Budget (Rs. Lakhs)
1	Software for Hazard Assessment of Munitions Storage	DRDO-ARMREB	76.62
2	Determination of Strength and Damage Parameters for Metals and Ceramics and High Strain Rate Characterization of Foams	DRDO- R&DE	239.38
3	ECO-FREco-friendly cementless binders for Concrete pavement Construction	NHAI	23.08
4	Inspiring the researchers of tomorrow in sustainable concrete construction	SPARC	49.2
5	Braided fibre reinforced polymeric rebars for concrete structures	NTTM, Ministry of Textiles	50.93
6	Geogrids for reinforcement of concrete slabs	NTTM, Ministry of Textiles	22.13

Structural Engineering Laboratory









Geo-Informatics



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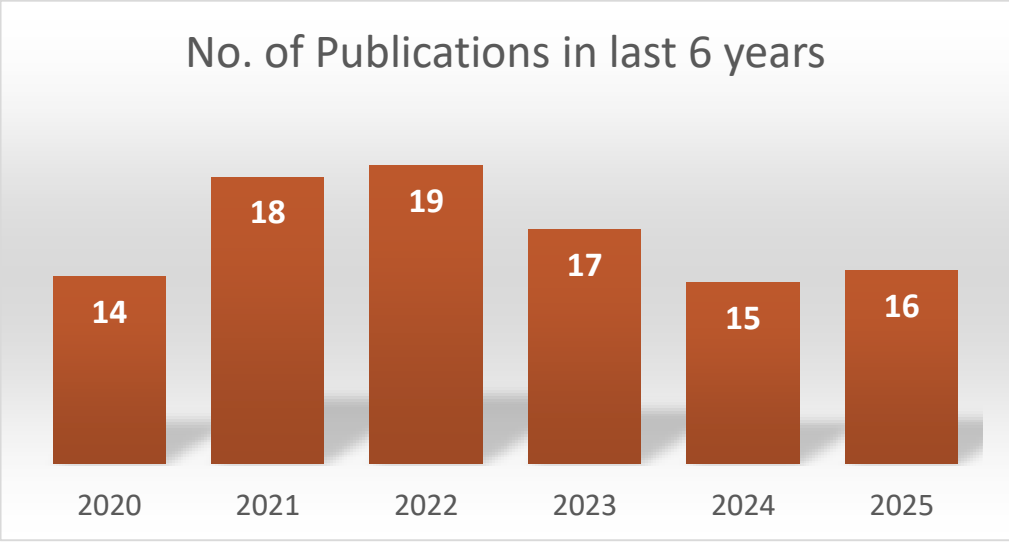
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DST Inspire Faculty
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Email: dst_if_civil@nitw.ac.in

GI:Research Activities

Research Specialization

- Agricultural Remote Sensing
- Disaster Monitoring
- Climate Change Studies
- Hydro-meteorological Characterization
- Terrain Analysis & DEM-based Modelling
- UAV/Drone Remote Sensing for High-Resolution

Faculty Strength	**5**
No. of Ongoing Research Projects	5
Total Publications in Last 6 Years	99



S. No	Project Title	Funding Agency	Budget (Rs. Lakhs)
1	Crop Identification and Health Monitoring Using UAV data and Satellite Imagery	CRG	**38.4**
2	Development of low-cost, open-hardware enabled watershed monitoring system for India	SPARC	**91.6**
3	Development of Global Vertical Soil Moisture Profile Database using SMAP Data	SERB	**19.9**
4	Real Time Forecasting Floods Using SWAT Model	SPARC	**81.6**
5	Stochastic Modelling for High Spatio-Temporal Resolution Surface Soil Moisture Retrieval using L&S band NISAR Observations	ISRO	**35**
6	Formulation of Sustainable Adaptation Strategies to Mitigate the Impacts of Climate Change on the Groundwater Systems of Arid and Semi-Arid Regions	INCGW	**50.05**

GI: Program Activities

Workshops Organized

GIAN - Phase I:
Quantitative and Qualitative Assessment of Water Resources Using SWAT

GIAN - Phase II:
Advances in Hydrologic Monitoring of Watersheds

GIAN - Phase IV:
Advances in Analysis and Modelling of Hydrologic Extremes
Scheduled from 01st to 11th April, 2025

SPARC - Phase I: (Duration 2018 – 2023)
Real-Time Forecasting of Floods Using SWAT Model

SPARC - Phase II: (Duration 2023 – 2025)
Development of low-cost, open-hardware enabled watershed monitoring system for India

RESEARCH COLLABORATIONS

INTERNATIONAL COLLABORATIONS

Geotechnical Engineering



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Research Activities

Research Specialization

- Ground Improvement
- Geo-Environmental
- Soil Stabilization
- Earthquake Engineering
- Soil Dynamics
- Pile Foundations
- Rock Mechanics

Faculty Strength	**8**
No. of Ongoing Research Projects	4
Total Publications in Last 6 Years	109
Patents Granted/Published and filed	18



Total Research Funding from ongoing projects: 1.68 Crores

S. No	Project Title	Funding Agency	Budget (Rs. Lakhs)
1	Seismic response analysis of ash dykes and ground modification for improved performance evaluation of ash dykes in long-term	AP GENCO.	5
2	Stabilized backfills to improve reinforced earth wall performance	NHAI	39
3	Eco-friendly Cementless Binders for concrete pavement construction	NHAI	45
4	Fugitive dust control measures using sustainable geopolymerisation on ash dyke approach roads	NTPC	16

GTE: Program Activities

Workshops Organized

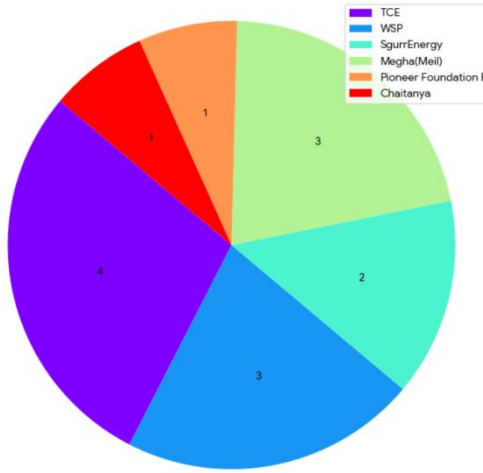
- GIAN Course on Ground Improvement Techniques
  (Classification, Case Studies and Trends)
  Geotechnical Earthquake Hazards and Mitigation
  Computational geotechnics











Placement Record

Out of 35 M.tech GTE 2023-2025 students 15 got placed.

COLLABORATIONS:

UNIVERSITY OF PLYMOUTH

IIT MADRAS

東京大学
THE UNIVERSITY OF TOKYO

Transportation Engineering



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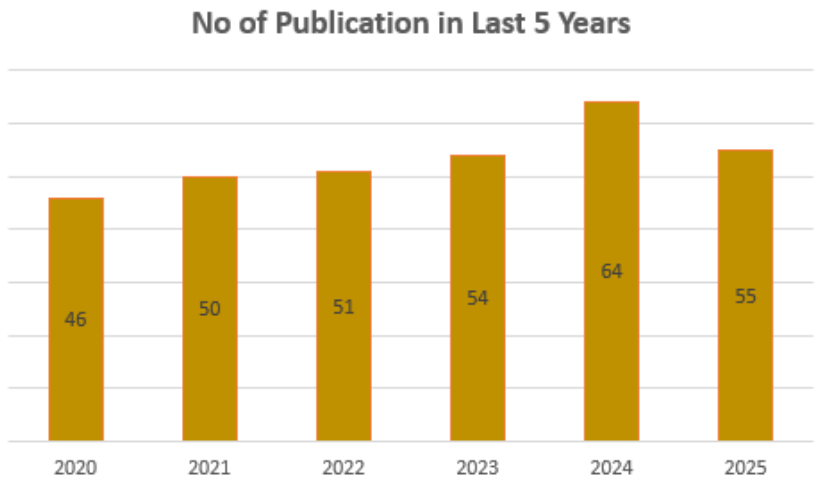
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TE: Research Activities

Faculty Strength	**7**
No. of Ongoing Research Projects	9
Total Publications in Last 6 Years	320
Patents Granted/Published and filed	02

Research Specialization

- Transportation Planning and Travel behavior
- Road Safety, Macroscopic and microscopic traffic analysis
- Crowd dynamic analysis and emergency evacuation
- Low Volume Roads, Pavement Analysis and Design
- Pavement Management System, Pavement Material characterization
- Pavement Management Systems



Total Research Funding from ongoing projects: 7.5 Crores

S. No	Project Title	Funding Agency	Budget (Rs. Lakhs)
1	Centre for Advanced Transportation Technology and Systems, Advanced Transport Modelling and Simulation for National Highways in India	MoRTH-IAHE	233
2	Effect of Flooding on Flexible Pavement Performance and Formulation of Treatment Strategies for Sustaining Resilience in Road Infrastructure	DST	43.32
3	Performance Evaluation of Full-Depth Reclamation(FDR) Roads in the State of Uttar Pradesh	MoRD	45
4	Safe System perspective on vulnerable road users in India	SPARC	71.16
5	Advanced Transport Modelling and Simulation for National Highways in India	MoRTH	232.90
6	Performance Evaluation and optimization of cement grouted bituminous mixes using blue pavemaster HP grout material	M/s Avijeet Agencies (P) Ltd	12.74
7	A study on Pedestrian Exposure to National Highways along the Built-up Areas: Towards Development of Pedestrian Crossing Treatments to lmprove Pedestrian Safety	NHAI	41.27

TE: Program Activities

Workshops Organized

- GIAN Course on Choice Models
- SAFE SYSTEM PERSPECTIVE ON VULNERABLE ROAD USERS IN INDIA", Sponsored by SPARC
- Executive Development Program Sponsored by NRIDA-MORD-75 Programs

Transportation Program Laboratories





COLLABORATIONS:

ARISTOTLE UNIVERSITY OF THESSALONIKI

GOVERNMENT OF TELANGANA

UNIVERSITY OF CENTRAL FLORIDA 1963

University of South Australia

ग्रामीण विकास मंत्रालय
भारत सरकार
MINISTRY OF RURAL DEVELOPMENT
GOVERNMENT OF INDIA

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UNIVERSITY OF LUXEMBOURG

सत्यमेव जयते
MORTH
Government of India

UNSW SYDNEY

FOREST SERVICE
US
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भा रा रा प्रा
NHAI

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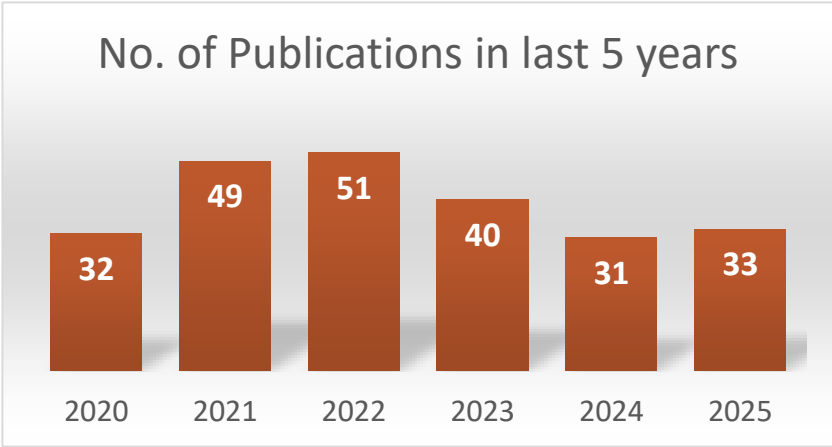
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WRE: Research Activities

Faculty Strength	**7**
No. of Ongoing Research Projects	5
Total Publications in Last 6 Years	236

Research Specialization

- Water Resources Systems
- Hydrological Modelling
- Climate Change Studies
- Hydro-meteorological Extremes Characterization
- Hydraulic Modeling
- Contaminant Transport Modelling
- Sediment Transport



Total Research Funding from ongoing projects: 7.97 Crores

S. No	Project Title	Funding Agency	Budget (Rs. Lakhs)
1	Studies on Condition Assessment & Management Plan for Krishna River Basin	NRCD	**627**
2	Formulation of Sustainable Adaptation Strategies to Mitigate the Impacts of Climate Change on the Groundwater Systems of Arid and Semi-Arid Regions	INCGW	**51**
3	Land-atmosphere Coupling and their Impact on Compound Extremes	ANRF	**42**
4	Physics-Informed AI for Hydrological Forecasting in Peninsular India River Basins	ANRF	**43**
5	Understanding the drivers and responses of flash droughts in Peninsular India	ISRO	**34**

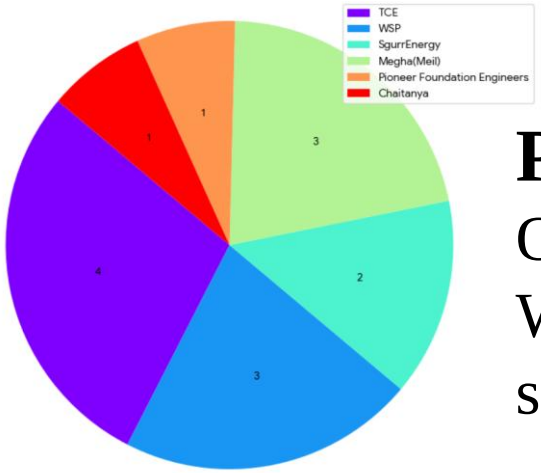
WRE: Program Activities

Workshops Organized

- GIAN Course on Ecohydrological Modelling
- ISRO Workshop on Flood Modelling and Management
- CGWB Workshop on Groundwater Management







Placement Record

Out of 15 M.tech WRE 2023-2025 students 14 got placed.

COLLABORATIONS:

KSCSTE - CWRDM

MoU Recently Signed





MittiLabs

LATRICS
Building Better Tomorrow

Thank you