



Schedule of **Training & Development** Programmes

2026-27

An aerial photograph of the Engineering Staff College of India (ESCI) building, showing its large, pinkish-red structure with a central entrance and surrounding greenery. The building is surrounded by lush green trees and a paved road. In the background, a cityscape with modern buildings is visible under a clear sky.

Engineering Staff College of India
Autonomous Organ of The Institution of Engineers (India)



सरस्वति महाभागे विद्ये कमललोचने ।

विद्यारूपे विशालाक्षि विद्यां देहि नमोऽस्तु ते ॥



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OUR VISION

To position ESCI as an outstanding provider of continuously evolving, global market-responsive trained professionals in the fields of engineering and technology, research and development, and techno-management, dedicated to excellence and delivering innovative solutions that enhance productivity across all sectors of the economy.

OUR MISSION

To provide quality education, training, and applied research in the fields of technology and management; to empower the engineering fraternity to be innovative and future-ready in meeting the challenges of a rapidly evolving global environment; and to serve as a frontline interface between academia, research, industry, and other sectors by enabling advanced engineering and technological applications and fostering high-impact, thrust-area programmes.

GENESIS

The world's largest multi-disciplinary engineering professional body, The Institution of Engineers (India), was established in 1920 and incorporated by a Royal Charter of England in 1935. With the objective of continuously updating the knowledge and skills of professionals in frontier areas of engineering, science, technology, and management, The Institution of Engineers (India) established the Engineering Staff College of India (ESCI) in October 1981 at Hyderabad.

OBJECTIVES

The primary objective of ESCI is to impart need-based Continuing Professional Development (CPD) training programmes while providing consultancy and technical services to industry, academia, and research and development organizations in frontier areas of engineering, science, technology, and management. ESCI functions as a vital bridge between academia, industry, and R&D laboratories by facilitating access to the latest knowledge, expertise, and best practices for engineering professionals and managers. It also serves as a catalyst for transferring knowledge and skills from experienced professionals to the younger generation entering the industry from academic institutions, thereby promoting quality training, professional excellence, and continuous learning in a rapidly evolving technological environment.

PHILOSOPHY

ESCI has completed more than four decades of dedicated service to the nation by imparting quality training and promoting professional excellence among engineers, scientists, and techno-management professionals. Guided by a philosophy of continuous learning and innovation, ESCI delivers programmes across diverse domains including Centre for Climate Change, Civil and Transportation Engineering, Design and Prototyping Centre, Environmental Management, Faculty Development, Information Technology, Management and Technology, Mining, Power and Energy, Quality and Productivity, Skill Development, and Water Resources Management, while also providing consultancy services to industry and government departments.



From the PRESIDENT

Er. Manish Mahendra Kothari, FIE

Chartered Engineer

Chairman BOM-ESCI & President - IEI

It is heartening to note that the Engineering Staff College of India (ESCI), an esteemed organ of The Institution of Engineers (India), continues to play a pivotal role in shaping the engineering and techno-management landscape of our nation. As a premier National Training Institute, ESCI has been at the forefront of imparting high-quality education, skill development, and research-driven training, ensuring that professionals across diverse engineering and management domains remain equipped with the latest advancements and best practices. Over the years, ESCI has emerged as a trusted knowledge partner, bridging the gap between academia and industry by offering cutting-edge training programmes in emerging technologies, infrastructure development, sustainability, and digital transformation. The institution's unwavering commitment to innovation and excellence is evident through its initiatives in areas such as renewable energy, smart grids, artificial intelligence, blockchain, additive manufacturing, and climate change mitigation.

The Training Calendar for 2026-27 is a testament to ESCI's dynamic approach in curating programs that cater to the evolving demands of industry and governance. With a strong focus on capacity building, skill enhancement, and global best practices, ESCI continues to empower engineers, technologists, and managers, thereby contributing significantly to national progress and sustainable development.

I extend my sincere appreciation to ESCI for its relentless efforts in advancing engineering education and professional development. I am confident that the Annual Training Calendar for FY 2026-27 will serve as a valuable resource, equipping professionals with advanced knowledge and skills to drive innovation and excellence in the engineering sector.

My best wishes to ESCI, its faculty, and all the participants for a successful and impactful training year ahead.

Er. Manish Mahendra Kothari, FIE



DIRECTOR'S FOREWORD

Engineering Staff College of India (ESCI) is an Autonomous Organ of The Institution of Engineers (India) Established in 1981, the **Engineering Staff College of India (ESCI)** is a premier center of excellence dedicated to high-quality training, education, and consultancy in engineering, technology, and techno-management.

Shaping Future-Ready Professionals

As the engineering landscape undergoes rapid digitization, technical expertise alone is no longer sufficient. ESCI bridges the gap between academia and industry by equipping professionals with:

- Emerging Technologies: Artificial Intelligence (AI), Blockchain, Internet of Things (IoT), Unmanned Vehicles, and Cyber Security
- Leadership & Strategy: Emotional Intelligence, Governance, Strategic Planning, and Risk Management
- Multidisciplinary Expertise: The only institute in Asia offering diverse engineering disciplines under one roof

Training & Development Framework

Each year, ESCI empowers approximately 8,000 professionals through 400–500 specialized programs, including:

- Continuing Professional Development Programs (CPDPs)
- Specific Training Programs (STPs)
- NCVET-aligned skill and certification programs
- AICTE-approved PGDM programs

Learning methodologies include workshops, conferences, e-learning, industry visits, study tours, and hands-on field exposure.

National Capacity Building Initiatives – Power Sector

Under the Ministry of Power, Government of India, and under the aegis of Power Finance Corporation (PFC), ESCI is implementing middle-management capacity building programs for engineers under the Revamped Distribution Sector Scheme (RDSS).

Five different 3-day training programs were envisaged by PFC:

1. Policy and Regulatory Aspects of Electricity Distribution
2. Energy Transition including Climate Change and Sustainable Development
3. Cybersecurity in the Power Sector
4. Energy Portfolio Management and Power System Operation Management
5. Renewable Energy Technologies

These programs are aimed at strengthening operational efficiency, regulatory understanding, sustainability, and technological preparedness of DISCOM engineers nationwide.

Empanelment with Central Ministries & Agencies

- **Ministry of Road Transport & Highways (MoRTH), Government of India**

ESCI is empaneled under the scheme "Workshop-cum-Training Programme for Development of Human Resources in States'/UTs' Transport Departments", supporting capacity building of transport and highway officials.

- **National Rural Infrastructure Development Agency (NRIDA)**

ESCI is Empaneled by NRIDA, Ministry of Rural Development, Government of India. ESCI contributes to training and knowledge dissemination in rural infrastructure and connectivity sectors.

Global Impact & National Recognition

ESCI has successfully executed national and international assignments for:

- World Bank • UNESCO • UNICEF

It also serves as a Key Resource Centre (KRC) for:

- Ministry of Jal Shakti (Jal Jeevan Mission)
- Central Electricity Authority
- Department of Science & Technology
- Ministry of Rural Water Supply

Consultancy Services

In addition to training and education, ESCI provides expert consultancy services across engineering and management domains, offering customized, result-oriented solutions to meet client-specific requirements.

School of Post Graduate Studies

ESCI hosts a dedicated School of Post Graduate Studies, offering Graduate Courses like PGDM General Management & PGDM Infrastructure Management and Undergraduate Courses like Bachelor of Business Administration (BCA), Bachelor of Computer Applications (BCA), B.Tech – Computer Science and Engineering (Artificial Intelligence & Machine Learning) and B.Tech – Robotics and Artificial Intelligence these programs designed in alignment with industry needs and national skill frameworks. These programs blend academic rigor with practical exposure to ensure career-ready professionals.

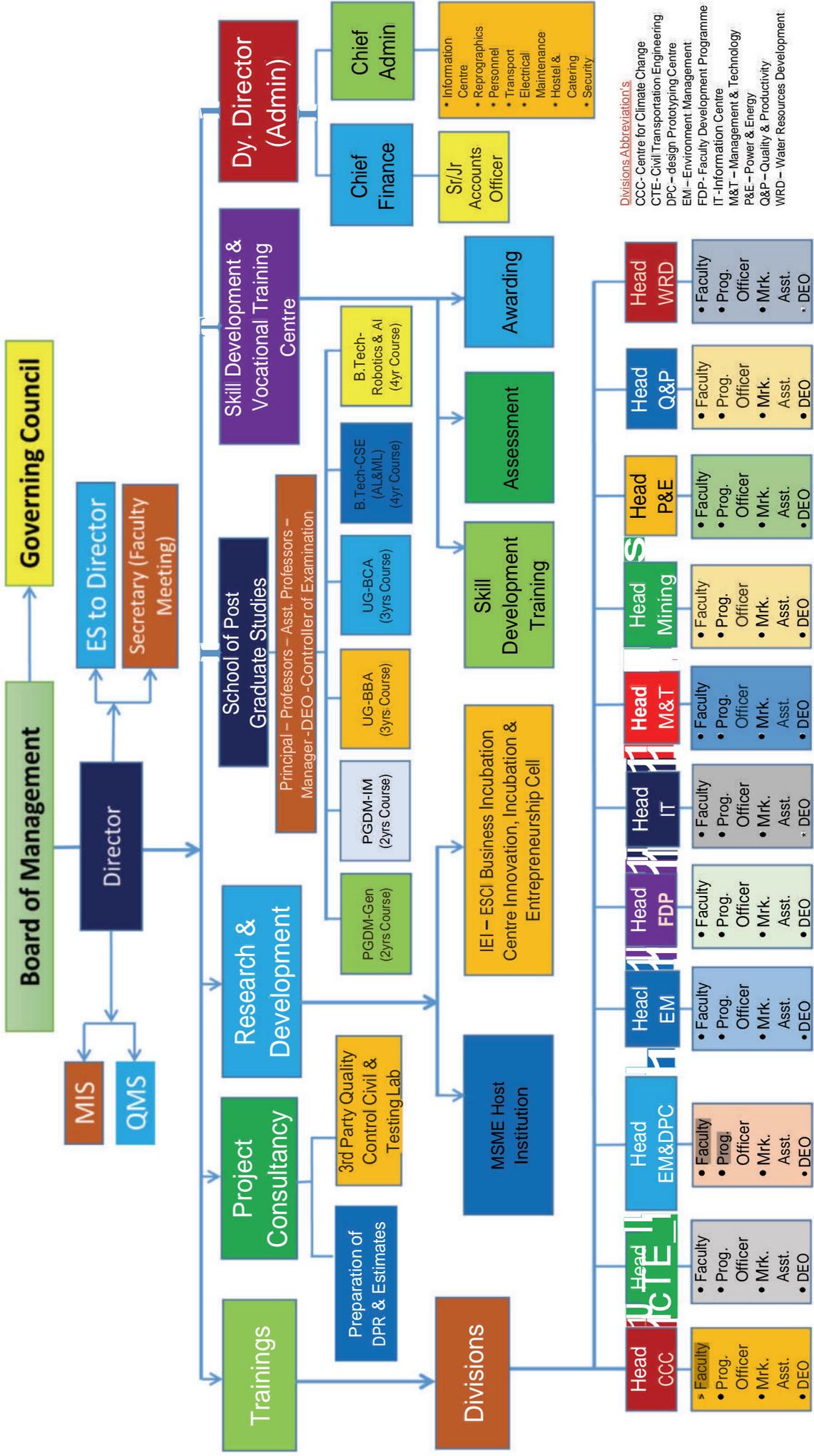
A Message from the Director

"We invite organizations to leverage this 2026-27 Training Schedule to empower their workforce. By investing in continuous learning, you drive innovation and operational efficiency. We look forward to collaborating with all stakeholders in building a skilled, future-ready engineering workforce."

Dr. G. Rameshwar Rao, FIE
Director, ESCI



Organogram of ESCI



- Divisions Abbreviation's**
- CCC - Centre for Climate Change
 - CTE - Civil Transportation Engineering
 - DPC - design Prototyping Centre
 - EM - Environment Management
 - FDP - Faculty Development Programme
 - IT - Information Centre
 - M&T - Management & Technology
 - P&E - Power & Energy
 - Q&P - Quality & Productivity
 - WRD - Water Resources Development

Awards & Recognitions



9 Times Golden Peacock Award
2006, 2007, 2008, 2010, 2012, 2021, 2022,
2023 & 2024 for National Training Award
and Environment Management Award



Recognition / Empanelment

International Quality Standards (ISO)

The organization maintains a robust Integrated Management System with the following certifications:

- ISO 9001:2015 – Quality Management System
- ISO 14001:2015 – Environmental Management System
- ISO 50001:2018 – Energy Management System
- ISO 45001:2018 – Occupational Health and Safety Management System
- ISO/IEC 17025:2017 – Testing and Calibration Laboratories Government of India Recognitions
- **SIRO:** Recognized as a Scientific and Industrial Research Organization by the Ministry of Science and Technology.
- **AICTE & CEA:** Recognized by the All-India Council for Technical Education and the Central Electricity Authority.
- **MSME:** Designated as a Host Centre for the Ministry of Micro, Small, and Medium Enterprises.

Ministry Empanelments, Sponsorships & Projects

The organization is a trusted partner and empanelled agency for several key Union Ministries:

- Ministry of Power: Empanelled with the Bureau of Energy

Efficiency (BEE); and Sponsoring Authority for training of Middle Management Personnel of DISCOMs under the Revamped Distribution Sector Scheme (RDSS) of the Ministry of Power, Government of India, in association with Power Finance Corporation Limited (PFC), New Delhi.

- Ministry of Jal Shakti: Associated with the Jal Jeevan Mission.
- Ministry of Rural Development: Registered under DDU-GKY (Permanent Registration Number received).
- Ministry of Road Transport and Highways (MoRTH).
- Ministry of Housing and Urban Affairs (MoHUA).
- Ministry of Environment, Forest and Climate Change (MoEFCC).

Environmental & Regulatory Compliance

- Pollution Control: Empanelled with the Central Pollution Control Board (CPCB) and various State Pollution Control Boards.
- Urban Development: Works closely with Urban Local Bodies (ULBs) across multiple states.

Awards & Accolades

- Best Innovative Training Provider (2019): Awarded by the Integrated Chambers of Commerce and Industry (ICCI)



Continuing Professional Development Programmes

Centre for Climate Change

Civil & Transportation Engineering

Electrical, Mechanical & Design Prototyping Division

Environment Management

Faculty Development Programme Cell

Information Technology

Management & Technology

Mining Engineering

Power & Energy

Quality & Productivity

Water Resources Development

Project Consultancy



Functionalities of the CCC Division

The primary objective of the Climate Change Centre (CCC) Division is to promote awareness of climate change perspectives across environmental, social, and developmental sectors.

This division is dedicated to the following core functions:

Capacity Building : Organizing workshops, roundtables, symposiums, and conferences to enhance knowledge and skills.

Research & Innovation: Conducting action-oriented research and providing incubation facilities for innovative climate solutions.

Synergy: Fostering institutional collaborations and building strategic partnerships to strengthen climate action.

Areas of Intervention

The CCC operates across 10 strategic pillars to address climate change challenges effectively:

1. Mainstreaming DRR – Integrating disaster risk reduction into policy and planning frameworks.
2. Climate-Resilient Cities – Enhancing resilience of urban infrastructure.
3. Urban Lakes – Restoration, conservation, and sustainable management of water bodies
4. Flash Floods & Forecasting – Implementing climate-based forecasting and early warning systems.
5. Industrial Estates – Promoting sustainable and climate-resilient industrial parks.
6. Water–Energy Nexus – Managing inter dependencies between water and energy systems.
7. Green Spaces – Sustainable urban landscaping for climate adaptation
8. Human Health – Addressing climate-related health risks and vulnerabilities.
9. Sustainable Indicators – Developing metrics to track adaptation and mitigation success.
10. Waste Management – Exploring linkages between waste practices and climate change impacts.

Key Focus Areas

The CCC focuses on mainstreaming climate adaptation and mitigation through multi-disciplinary approaches. A unique feature of its training programs is the development of an “Implementation Manual” by participants, ensuring the practical application of learning outcomes.

The division also emphasizes:

- Integration of Disaster Risk Reduction (DRR) into planning processes
- Establishment of measurable sustainability indicators to assess climate resilience and adaptation outcomes

Specialized Training Programs

The CCC offers high-level, sector-specific training programs organized under the following thematic modules:

Water Resources

- Urban Water Management
- Flood Evacuation Models
- Hydrologic Extremes
- River Morphological & Hydrodynamic Modelling

Agriculture

- Climate-Resilient Irrigation
- AI & Machine Learning for Biomass Estimation

Mitigation

- GHG Emission Reduction
- Carbon Management
- Urban Forestry
- Urban Heat Island Mitigation

Disaster Management

- Climate-Induced Risk Mitigation Strategies
- Early Warning Systems

Economics

- Economics of Climate Adaptation
- Environment and Sustainable Development

Technology

- GIS, Remote Sensing, and AI for Environmental Monitoring

Energy

- Green Energy Solutions
- Net-Zero Transition Strategies

Urban & Biodiversity

- Green Buildings
- Energy Efficiency
- Enhancing Urban Biodiversity



CCC : Schedule of Training Programmes

S. No.	Programme Title	Days	Dates
1	Environmental, Social and Governance (ESG) Frameworks for Public & Private Officials	3	22 - 24 Apr 2026
2	Drink from Tap	3	13 - 15 May 2026
3	Municipal and Industrial Wastewater Treatment for a Circular Water Economy	3	20 - 22 May 2026
4	Optimizing Solid Waste Management for Climate Change Mitigation & Adaptation	3	10 - 12 Jun 2026
5	Climate Smart Farming	3	24 - 26 Jun 2026
6	The Decarbonization Roadmap: Implementing a Data-Driven Framework for Net-Zero Campus Operations.	3	15 - 17 Jul 2026
7	Integrated Water Management Solutions for Climate-Stressed Regions	3	28 - 30 Jul 2026
8	Governing the Green Transition: Policy Frameworks for Climate Resilience	3	4 - 6 Aug 2026
9	GHG Emissions & their Impact on Climate Change	3	8 - 10 Sep 2026
10	Critical Evaluation for Sustainable Energy Solutions	3	28 - 30 Oct 2026
11	Agricultural Practices, Soil Health and Climate Change: Challenges & Solutions	3	18 - 20 Nov 2026
12	Climate Change Impacts on Biodiversity and Ecosystems	3	16 - 18 Dec 2026
13	Climate Change and Coastal Hazards	3	27 - 29 Jan 2027
14	Impact of Land Use–Land Cover Changes on Urban Lakes	3	16 - 18 Feb 2027
15	Urban Heat and Flood Risks in a Changing Climate	3	10 - 12 Mar 2027

Profile of Internal Faculty



Dr. K. Chandrakala (Sr. Faculty & Head I/c – CCC)

She is a Chemical Engineer with a B.Tech from S.V. University, Tirupati, and an M.Tech from VTU, Belgaum. She earned her Ph.D. in Chemical Engineering from BITS Pilani, Hyderabad. With 20 years of experience in Research & Development at Academic & Capacity Building. She Worked at the National Aerospace Laboratories (NAL), a CSIR lab in Bangalore, she has specialized in polymer composites. Her expertise extends across research, teaching, capacity building in climate change, and the startup ecosystem. She has also contributed significantly to academia, publishing seven research papers in international journals."

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Dr. A. Naresh (Faculty - CCC)

Currently serving as a Jr. Faculty in the CCC Division, holds a Ph.D. in Civil Engg. obtained in the year 2024 from the Dept. of Civil Engineering, OU, Hyderabad. He completed an M.E in Water Resources Engg. from OU and a B.Tech in Civil Engineering from JNTU. His professional trajectory encompasses diverse roles and experiences, including serving as a Visiting Scholar in Ecological Engg. at Texas A & M AgriLife, Texas A & M University, USA. He worked as a JRF under the DST-SERB, and a Research Assistant under the UGC-MRP project at the Dept. of Civil Engg, OU. He also worked under another DST-sponsored project as a Research Assistant at IIT-Hyderabad. He is also an Associate member (AMIE) of The Institution of Engineers (India). His scholarly endeavours extend to numerous research publications comprising journal articles and book chapters in esteemed publications. He has presented his research findings at various international and national conferences, focusing on topics related to hydrology, climate change, urban flood modelling, and flood mitigation strategies.

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Mr. GNM Rao, Manager (Prog.) - Ph: 040-66304122, Mob: 9866431555 | Email: ccc@escihyd.org



Functionalities of CTE Division:

The Civil & Transportation Engineering (CTE) Division provides professional training in the areas, including:

- Construction Management
- Pavement Technologies (Urban & Rural Road Technologies for PMGSY Projects)
- Transportation Management
- Road Safety Management & Audits
- Traffic Management
- Project Management in Construction Projects
- Contract Management, Arbitration, and Dispute Resolution

CTE specializes in multiple infrastructure domains, such as:

- Pavements & Highways
- Bridges
- Public Transport
- Roads & Railroads

Government Sector Collaborations:

- Ministry of Road Transport & Highways (MoRTH)
- National Rural Infrastructure Development Agency (NRIDA)
- Induction Training Program for Newly Recruited AMVI's for Telangana Transport Department,
- Roads & Buildings, Madhya Pradesh Public Works Department (MPPWD), Panchayat Raj and Rural Development Authorities, RITES, Military Engineering Services (MES), Border Roads Organization (BRO).

International Exposure:

As a part of its global outreach, CTE conducts training for member countries of the International Network for Professional Engineers Development Institutes (INPEDI). The division regularly organizes "Maintenance of Infrastructure" programs in India and abroad under UNESCO contributions.

In-house/Specific Training Programmes Offered:

- CTE focuses on the planning, design, construction, management, and performance of construction and transportation systems. These systems consist of facilities, buildings, projects, vehicles, data, control mechanisms, new technologies, and policies that combine to permit the efficient transit of people and freight. Civil & Transportation systems are vitally important for ensuring any region's access to physical, economic, and social resources.
- Construction Management in Construction Industry - Pavement Technologies including Urban and Rural Road Technologies - Rural Road Technologies for PMGSY Projects - Transportation - Management - Road Safety Management - Road Safety & Audit - Traffic Management - Project Management in Construction Industry - Contract Management including Arbitration & Dispute Resolutions.
- Induction Training for Newly Recruited Officers of Military Engineering Services (MES) in Civil, Electrical & Mechanical Engineering disciplines.
- Capacity Building Programs for Motor Transport, Police, and Municipal Engineers on Road Safety Management, Road Safety Audits, and Motor Vehicle Act Enforcement Rules & Regulations, Role of ITS in-Road Safety Management in collaboration with MoRTH, Government of India.
- Design, Construction & Maintenance Training for minor bridges, culverts, and long-span bridges, specifically tailored for designers, construction engineers, and project managers in government sectors through NRIDA, Government of India.

The CTE Division remains committed to enhancing the knowledge and skills of professionals in civil and transportation engineering, ensuring sustainable and efficient infrastructure development.



CTE : Schedule of Training Programmes

S. No.	Programme Title	Days	Dates
1.	Advanced Materials & Concrete Technology	5	19-23 Apr, 2026
2.	Innovate Construction Methods	5	18 - 22 May, 2026
3.	Implementation of AI in Construction Projects & BIM	5	08 - 22 Jun, 2026
4.	Structural Engineering & Resilience	5	27-31 Jul, 2026
5.	Testing of Civil Engineering Materials by using latest Techniques	5	10-14 Aug, 2026
6.	E-Tendering and Condition of Contract for EPC /Turnkey projects by using AI	3	22-24 Sep, 2026
7.	Safety & Risk Management in Construction and Civil Engineering Structures by using AI	3	27-29 Oct, 2026
8.	Role of AI in infrastructure assessment & rehabilitation	3	17-19 Nov, 2026
9.	Contract Management & Dispute Resolution in Engineering Projects	5	14-18 Dec, 2026
10.	Recent innovations in road Constructions and QA & QC practices	3	19-21 Jan, 2027
11.	Smart & Digital Civil Engineering	5	22-26 Feb, 2027
12.	Role of UAV's in construction management	5	15-19 Mar, 2027

Note: (1) All the Programs designed as residential programs, if anyone is interested, we will conduct online also (2) Out-station Programs are conducted only with minimum 30 participants. We also undertake In-house training programmes on the above subjects or any other subjects at Clients location. Certificate programme can be done on the request from the participants/ Organizations.

Profile of Internal Faculty



Dr. R. Venkat Reddy (Head - CTE)

Completed B.E. in Mech. Engg. from Marathwada University, M.S. in 1989. He obtained his Master's degree in Production Engg. from JNTUH, Hyd. in 2001 and acquired Doctor of Philosophy in Mech. Engg. from prestigious OU, Hyd. in 2013. He has Total 26 years of experience in teaching at various levels from Asst. Professor, Asso. Professor, Professor and HOD including 15 years of experience in administration as a Professor & HOD and 7 years of experience in industry. He published 55 research papers in international, national journals and conferences in Elsevier, ASME, SPRINGER, Scopus indexed and UGC journals. He published 7 text books, 8 Patents and 1 Consultancy work. By dint of hard work and devotion to duty, he earned "Best teacher award". Received Engineering Excellence Award from Institution of Institutions (India), Jaipur, Rajasthan on the occasion of 75th independence celebrations, on 15-08-2021. 4 Ph.D's Guided at NIT, AP.

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Mr. Ch. Tilak (Faculty - CTE)

He is B Tech Civil Engineering and M Tech in Transportation Engineering. He has total 8 Years of Experience in Teaching. Worked as Head of the Department & Assistant Professor in Annamacharya Institute of Technology & Sciences (Autonomous), Engineering College in Hyderabad for 5 years. Published 3 Papers in National Journals. His areas of interest in Traffic Engineering, Transportation Engineering, Urban Transport Management. Presently working as Faculty in Civil / Transportation Engineering Division- ESCI Hyd.

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Functionalities of EMDPD

The Electrical, Mechanical and Design Prototyping Division at Engineering Staff College of India (ESCI) is a strategic initiative aimed at strengthening design, development, and manufacturing competencies among engineers, technologists, and industry professionals. It was established to serve as a platform for technology demonstration, skill development, applied research, and industrial consultancy.

Core Areas of Expertise:

Electrical, Mechanical and Design Prototyping Division is steadily progressing as a Technology Demonstration Centre (TDC), promoting emerging technologies such as:

Additive Manufacturing & Reverse Engineering

- Unmanned Aerial Vehicles (UAVs) / Drone Technologies
- Sensors, Robotics & Industrial Automation
- Engineering Design, Modelling, Analysis & Optimization
- Rapid Prototyping and Production-Volume Manufacturing
- Advanced Manufacturing Processes
- Engineering Simulations using CAD/CAM/CAE tools
- Surface Engineering Technologies
- Geometric Dimensioning & Tolerancing (GD&T)

MSME Business Incubation & Idea Hackathons:

- ESCI is an approved Host Institution (HI) under the Ministry of Micro, Small & Medium Enterprises (MSME) with Registration No.: HIBITS001140.
- DPC functions as a MSME Business Incubation Centre and has conducted Five Idea Hackathons, including one dedicated to women entrepreneurs.
- The following eight innovative ideas from these hackathons have been awarded MSME grants.

- VR Assisted Tele-Operated Robotic Ultrasound System
- AI Assisted Malleable Arc Retraction system
- Augmented Reality assisted Surgical Intervention Platform
- Cyclo-Sparking for Cyclone Suppression
- Extraction of Nano cellulose from Desi Cow dung
- Generation of Green Hydrogen Gas from Sewage Treatment Plants (STP)
- Uni-directional Enteral feeding tube for cancer patients
- Advanced Coaxial Bio 3D Printing with concentric Dual material capabilities for Pharma and Healthcare Industries

Consultancy Services:

DPC offers a range of consultancy services, including:

- 3D Printing & Reverse Engineering (3D Scanning)
- Engineering Simulations
- Structural & Mechanical Simulations
- Multibody Dynamics (MBD) Simulations
- Explicit Dynamics / Impact Simulations
- CFD & Thermal Simulations
- Acoustics & NVH Simulations
- Manufacturing & Process Simulations
- Design Optimization & Design Validation
- Reliability, Life & Damage Assessment
- UAV Design, Development & Applications
- Prototyping & Small-Scale Manufacturing
- Advanced Manufacturing
- CAD-CAM & CNC Programming Support
- Hybrid machining approaches (Additive + Subtractive)
- Wire Cut EDM
- Non-Destructive Testing
- Lubrication & Maintenance
- Materials & Metallurgical Engineering
- Mechatronics & Automation
- Geometric Dimensioning & Tolerancing (GD&T)



EM&DPC : Schedule of Training Programmes

S. No.	Programme Title	Days	Dates
1	Advances in Foundry Processes, Technology, Casting and Inspection.	5	07 - 11 Apr 2026
2	Heat Treatment - Furnaces, Processes and Innovations	4	14 - 17 Apr 2026
3	3D Printing in Manufacturing	4	21 - 24 Apr 2026
4	Advances in Design & Optimization of UAV's for Industrial Applications (Defense, Mining & Construction)	5	28 Apr - 02 May 2026
5	Techno-Managerial Excellence for Engineering Managers	3	07 - 09 May 2026
6	Ferrous and nonferrous castings: Technology, Production, Defects & Rectifications	4	12 - 15 May 2026
7	CNC Milling, Turning, Drilling and Machine Tools - Programming, Selection of Cutting tools & Lubricants	4	19 - 22 May 2026
8	Aerospace materials - Selection, Processing, Testing & Applications, Qualification and Certification process	5	02 - 06 Jun 2026
9	Coating & Paint Technology	4	09 - 12 Jun 2026
10	Condition Based Maintenance - Oil and Wear Debris Analysis (including AI based)	4	16 - 19 Jun 2026
11	Non destructive Testing of materials.-Principles, Equipment, Calibration & Data Interpretation	4	23 - 26 Jun 2026
12	Engineering Design using AutoCAD (Mechanical) - With Hands-on Approach	4	07 - 10 Jul 2026
13	Engineering Simulation using ANSYS & CFD - With Hands-on Approach	5	14 - 18 Jul 2026
14	Mechanical, Chemical Testing and Metallurgical Characterization of Metallic materials-Concepts, Equipment, Calibration, Data Analysis	5	04 - 08 Aug 2026
15	Engineering Simulation using LS-DYNA- With Hands-on Approach	5	04 - 08 Aug 2026
16	Engineering Simulation using Solid Works- With Hands-on Approach	5	18 - 22 Aug 2026
17	Geometric dimensioning and tolerancing	5	08 - 12 Sep 2026
18	Special Heat Treatment techniques & Latest Developments in Furnaces	4	15 - 18 Sep 2026
19	High Speed Machines - Operational problems and Remedial Measures	3	07 - 09 Oct 2026
20	Maintenance and Lubrication of Rotating Equipment	3	28 - 30 Oct 2026
21	Metallurgy for QC and Design Engineers	3	18 - 20 Nov 2026
22	Surface Engineering - Concepts, Applications and Emerging Technologies	4	01 - 04 Dec 2026
23	Reciprocating compressors, screw compressors, pumps - Operational problems and remedial methods	5	19 - 23 Jan 2027
24	Advances in Plasma welding and cutting	4	02 - 05 Feb 2027
25	Advances in Design & Optimization of UAV's for Industrial Applications (Defense, Mining & Construction)	5	16 - 20 Feb 2027
26	Engineering Simulation using ANSYS & CFD - With Hands-on Approach	5	09 - 13 Mar 2027
27	Geometric dimensioning and tolerancing	4	16 - 19 Mar 2027

Note: We also undertake In-house / Customized Training Programmes, 3D Printing in Manufacturing, Metal Additive Manufacturing, Reverse Engineering, Advances in Design & Optimization of UAV for Industrial Applications.



Dr. N V S S Sagar (Faculty & Head I/c – EM&DPC)

He holds a Ph.D. in Additive Manufacturing and Unmanned Aerial Vehicles (UAVs), with an academic foundation in Mechanical Engineering and an M.Tech in CAD/CAM. With over 13 years of professional experience spanning academia and industry, he combines strong research expertise with practical product development exposure. Before joining ESCI, he served as a faculty member at reputed engineering institutions for over a decade and worked as a Product Development Engineer in industry. His areas of specialization include Additive Manufacturing, UAV Design & Optimization, CAD/CAM, Numerical Simulation, and Advanced Manufacturing Process. He authored several peer-reviewed international journal publications and presented research papers at international conferences. He has also served as a reviewer for reputed international journals in the domain of UAVs. In recognition of his research excellence, he received the Best Paper Award at the International Conference IDAD 2018. He has successfully mentored numerous real-time projects in the areas of drones, robotics, medical devices, numerical simulations, and additive manufacturing, fostering innovation and applied research aligned with industry and defence requirements. DAD 2018.

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Functionalities of Environment Management (EM) Division

Overview:

The Environment Management (EM) Division of ESCI delivers high-quality theoretical and practical training, supported by real-time case studies, in the areas of Water Supply & Sanitation, Waste Management, Septage Management and aimed at strengthening sustainable urban and industrial governance.

Key Initiatives:

Continuing Professional Development Programmes (CPDPs) for officials from Ministries, Regulatory Bodies, Government Departments, PSUs, Industries, and Academia Need-based training for organisations such as CPCB, ONGC, MES, MoHUA, MoEFCC, GiZ, NIUA, WASH institutions, Urban Local Bodies (ULBs), and other public sector organisations

Core Areas of Expertise:

Environmental Monitoring - Air & water pollution monitoring and modelling, GIS/GPS/RS applications, environmental data management, and sustainability
Waste Management - Solid and liquid waste, bio-medical waste, plastic waste, e-waste, hazardous waste, and construction & demolition waste
Water Supply & Sanitation Water supply systems, leakage control, SCADA, sewerage networks, STPs, stormwater drainage, wastewater treatment, faecal sludge & septage management, and service level benchmarks
Environmental & Social Issues - Environmental Impact Assessment (EIA), Environmental Management Plans (EMP), environmental legislation, social impact assessment, rehabilitation & resettlement, and ESMF
Government Missions - AMRUT & AMRUT 2.0, Smart City Mission, Swachh Bharat Mission, HRIDAY, PMAY-HFA, NULM, and other national programmes

Government Collaboration & Capacity Building:

- Empanelled by MoHUA, Government of India, as a Training Entity.
- MoUs with 13+ State Governments including Telangana, Tamil Nadu, Andhra Pradesh, Uttar Pradesh, Madhya Pradesh, and others.
- Conducted Capsule-1, Capsule-2 & Capsule-3

programmes, training 2,500+ participants across multiple states.

- Consultancy services in Energy Auditing, City Sanitation Planning, EIA, Urban Water Supply & Sanitation, and DPR preparation for STPs and Preparation of DPR for International State-of-the-Art Sanitation Experium.

In-House & Specialised Training Programmes:

- EIA & Environmental Management Plans
- Air & Water Pollution Monitoring and CEMS
- GIS Applications in Environmental Data Management
- Water & Wastewater Supply Systems and Septage Management
- Urban Flagship Missions (AMRUT 2.0, PMAY-HFA, SBM)
- Waste Management (Bio-medical, Solid, Hazardous, Plastic, E-Waste, C&D Waste Battery)
- Green Buildings, PPP, Water & Wastewater Auditing
- Industrial Wastewater Treatment Technologies

Our Commitment:

The EM Division is dedicated to capacity building for sustainable environmental practices, enabling effective governance and successful project implementation in urban and industrial sectors.



EM : Schedule of Training Programmes

S. No.	Programme Title	Days	Dates
1.	Bio-Medical Waste Management: Compliance with the Rules, 2016 (Amended) and Latest MoEFCC/CPCB Standards (2025)	3	07-09 April 2026
2.	Advanced Wastewater Treatment and Recycle & Reuse Technologies	5	20-24 April 2026
3.	Integrated Hydraulic and Hydrodynamic Modeling for Sustainable Urban Water Systems (WaterGEMS, SewerGEMS, & StormCAD)	5	04-08 May 2026
4.	Coastal Wastewater Management, Decentralised STPs & Urban Water Systems at Goa	5	18-22 May 2026
5.	Environmental Compliance and Sustainability in Infrastructure Projects: Legislation, Air Pollution Monitoring, EIA/EMP & Open-Source Reporting Tools	5	08-12 June 2026
6.	Hands on Training on Air Dispersion Modeling	3	23-25 June 2026
7.	Hands-On Training -Open-Source GIS Tools (QGIS) for Planning, Infrastructure and Environmental Applications and Sustainability	3	07-09 July 2026
8.	O&M of Water and Waste Water facilities and Upgrading Existing Facilities to Meet Latest Regulatory Standards (NGT / CPCB)	5	20-24 July 2026
9.	Faecal Sludge and Septage Management in the Framework of Swachh Bharat Mission (Urban/Rural)	3	04-06 August 2026
10.	E-Waste Management: Issues, Collection and Disposal Mechanisms – Challenges and Opportunities	3	18-20 August 2026
11.	Water Pollution Monitoring & Modelling using Software Applications – Theory & Practical's.	4	08-11 September 2026
12.	Integrated Solid Waste Management System: Technical Aspects, Waste-to-Energy Opportunities and Leachate Management	5	21-25 September 2026
13.	Urban Design, Mobility Planning and Water Management Systems for Engineering and City Planning at Chandigarh	5	05-09 October 2026
14.	Recycle and Reuse of Treated Wastewater, Resource Recovery, and Energy Recovery from Biological Sludge of STPs	3	27-29 October 2026
15.	Greening Urban Infrastructure through Nature-Based Solutions: Sanitation, Solid Waste Management and Water Supply	5	02-06 November 2026
16.	Urban Water Utilities: Water Audits and Technical Tools for NRW, CGW and Water Supply Systems	3	10-12 November 2026
17.	Hazardous Waste Management: Generation, Processing, Treatment and Regulatory Compliance (2016 Rules with Amendments)	3	25-27 November 2026
18.	Plastic Waste Management: End-to-End Processes, Recycling Technologies and Circular Economy (2016 Rules – Amended)	2	02-03 December 2026
19.	AI & ML-Driven Solutions for Urban Water Supply, Sewerage and Sanitation Management (Hands-on Training)	3	15-17 December 2026
20.	Technical Exposure Program: Design & O&M of ETPs with Real-Time Online Monitoring (CEMS & CEQMS) for Industrial Development Corporation	4	21-24 December 2026
21.	Preparation of DPRs and Evaluation of Tender Documents for Water, Effluent and Sewage Treatment Plants	3	05-07 January 2027
22.	Circular Economy: Integrating New EPR Rules, Digital Governance, and Resource Recovery in Water & Wastewater Management	4	19-22 January 2027
23.	ArcGIS desktop Hands-on GIS training with live project	3	27-29 January 2027
24.	Environmental Planning and the Water–Energy–Food (WEF) Nexus for Safe, Resilient and Sustainable Communities: SDG Impacts and Environmental Solutions	4	09-12 February 2027
25.	Latest Survey Technologies Using Total Station, GPS, DGPS, DRONE and RADAR - Hands-On Training Program	5	01-05 March 2027
26.	Impact of Climate Change on Water Resources in India: Challenges and Solutions	3	15-17 March 2027
27.	Noise Pollution in Urban Environments: Measurement, Control Technologies and Mental Health Implications	3	23-25 March 2027



Certificate Courses

A. Geospatial & Digital Technologies

1. Six-Week Certification Course on Geographic Information Systems (GIS) for Urban Water and Sewerage Management

Target Participants: Engineers, Planners, GIS Technicians

2. Ten-Day Certification Course on Geospatial Technologies for Water Supply and Sewerage Networks

Target Participants: GIS Technicians, Network Operators, Asset Management Staff

B. Water Supply & Sewerage Plant Operations

1. Fifteen-Day Certification Course on Plant Operations for Electricians, Plumbers, and Plant Operators in WTP, STP, and ETP Systems (Operations, Maintenance & Metering Systems)

Target Participants: Electricians, Plumbers, Plant Operators, Metering Personnel

2. Ten-Day Certification Course for Water Treatment Plant (WTP) Operators

Target Participants: Plant Operators, Engineers

3. Fifteen-Day Certification Course for Wastewater Treatment Plant (STP/ETP) Technicians

Target Participants: Technicians, Plant Operators

4. Five-Day Certification Course on Laboratory Techniques for Water Quality Monitoring

Target Participants: Lab Technicians, Quality Analysts

5. Five-Day Certification Course on Metering and Instrumentation in Water Supply and Sewerage Systems

Target Participants: Metering Staff, Operators, Instrumentation Technicians

6. Ten-Day Certification Course on Best Practices in Prevention, Maintenance, and Operation of Water Supply and Sewerage Systems

Target Participants: Electricians, Plumbers, Operators, Plant Supervisors

C. Environmental Compliance & Sustainability

1. Certification Course on Environmental Compliance Monitoring & Reporting

Target Participants: Environmental Officers, Plant Managers, Auditors

2. Ten-Day Certification Course on SDG and ESG Integration in Urban Water and Sewerage Systems

Target Participants: Utility Managers, Environmental Officers, Policy Staff

3. Ten-Day Certification Course on Environmental Auditing and NGT Compliance for Water and Sewerage Systems

Target Participants: Environmental Auditors, Plant Managers, Compliance Officers

4. Certification Course on Sustainable and Environment-Friendly Industrial Practices

Target Participants: Plant Operators, Engineers, Environmental Staff

D. Sanitation & Onsite Systems

1. Two-Week Certification Course on Design of Onsite and Offsite Sanitation Systems

Target Participants: Engineers, Planners, Sanitation Officers

E. ESCI also offers ESG & Sustainability Tech Consulting Services

Note: In addition, the following domain-specific training programmes/certificate courses can be planned based on a minimum of 16 nominations.



Ms. Anita Aggarwal (Faculty & Head I/C - EM)

She is a B.E. Civil, M.Tech in Environmental Science & Engineering from IIT (ISM) Dhanbad. 13 years of experience in domains related to Water Supply, Sewerage, Waste Management and Training & Teaching. Her areas of interest are in water supply, environment & solid waste management, technical estimation of civil Infrastructure and software applications related to water supply & sewerage system.

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Faculty Development Program Cell

Faculty Development Programmes (FDP) Cell

The Faculty Development Programmes (FDP) Cell of the Engineering Staff College of India (ESCI), Hyderabad, functions as a centre of excellence for capacity building, professional development, and institutional strengthening across technical education, management, and public systems. The Cell is dedicated to enhancing competencies of faculty members, professionals, executives, and administrators drawn from academic institutions, Public Sector Undertakings (PSUs), and Government organisations.

In alignment with national priorities in higher education and skill development, the FDP Cell is actively conducting programmes under MERITE – Multidisciplinary Education and Research Improvement in Technical Education. These programmes aim to foster multidisciplinary learning, research-driven pedagogy, and innovation-led education, while addressing the evolving needs of industry and governance.

MERITE-Focused Academic Programmes

Under the MERITE framework, the FDP Cell focuses on:

- Multidisciplinary and interdisciplinary approaches in technical and management education
- Research methodology, proposal development, and

publication ethics

- Outcome-based education, accreditation readiness, and quality assurance
- Digital transformation, AI-enabled teaching, and emerging technologies
- Innovation, entrepreneurship, sustainability, and industry integration

Programmes for PSUs and Govt. Organisations

In addition to academic FDPs, the Cell designs and delivers customised and sponsored training programmes for PSUs and Government departments in the domains of Management and Technology, including:

- Strategic management, leadership, and governance
- Project management, risk management, and contract management
- Digital governance, Industry 4.0, AI applications, and data analytics
- Infrastructure planning, sustainability, and technology management
- Human resource development, organisational effectiveness, and change management

These programmes are delivered through **residential, non-residential, online, and blended modes**, and are facilitated by eminent faculty, domain experts, senior administrators, and industry practitioners.

NSQF ALIGNED COURSES :

Sl. No.	Job Role	QP Code	NSQF Level	Theory (Hrs)	Practical (Hrs)	OJT (Hrs)	Employability Skills (Hrs)	Total Hours
1	Security Analyst	SSC/Q0901	5	110	220	90	60	480
2	Junior Software Developer	SSC/Q0508	4	90	240	60	30	420
3	Software Product Developer	SSC/Q0512	5	90	240	90	60	480
4	Artificial Intelligence / Machine Learning Innovative Analyst	IITG/AIML/Q0001	5	200	170	60	60	510
5.	EV Battery Sustainability Engineer	QG-05-AU-03866-2025-VI-IEI	6	190	270	140	60	660

Profile of Internal Faculty



Mr. Sai Kishore (Faculty & Head I/C - FDP)

Er. Sai Kishore P., M.Tech (EPS), MBA, (Ph.D), has over 17 years of experience in training, consultancy, and industrial relations. He has presented technical papers at national and international forums and specializes in Embedded Systems, UAS, 3D Printing & Scanning, and Small Satellite Technologies. He has coordinated World Bank-TEQIP programmes, organized capacity-building initiatives nationwide, and played a key role in international conferences and National Conferences. Currently, he aligns ESCI's training programmes with national missions such as Skill India, Digital India, Make in India, Start-up India, Stand-up India, and Smart Cities. A strong advocate of sustainable training, he has trained 6,000+ professionals and conducted skill programmes for 960 unemployed youth under PMKVY 4.0 (Future Skills) **Research Area:** Potential Use of AI in Measuring Training Effectiveness in Corporate & National Skill Development Ecosystems. Memberships: Life Member, The Institution of Engineers (India)- IEI & Indian Water Works Association (IWWA)
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Mr. B. Mohan (Jr. Faculty - FDP)

Mr. B. Mohan, Junior Faculty – FDP at the Engineering Staff College of India (ESCI), holds a Master's degree in Power Engineering and Energy Systems and a Bachelor's degree in Electrical and Electronics Engineering from JNTU Hyderabad. He has four years of industrial experience, including one year as a Quality Control Engineer for solar inverters and three years in Quality Control for Indian Railways projects, with a focus on electric locomotives, and possesses expertise in testing, quality control of electronic systems, and e-tendering processes. Currently, with over five years of experience at ESCI, he is actively involved in training, consultancy, and industrial relations, aligning workshops and programmes with national missions such as Skill India, Digital India, Make in India, Start-up India, Stand-up India, and Smart Technologies for Smart Cities. He has also successfully conducted Skill Development Programmes for 960 unemployed youth under PMKVY 4.0 – Future Skills Programme, funded by the Ministry of Skill Development and Entrepreneurship, Govt. of India, contributing significantly to national skilling and employability initiatives. **Ph: 040-66304116, Mob : 7858873963**

Mr. Punjala Sunvesh Kumar, Asst. Program Officer – Ph: 040-66304116 Mob: 9989709169.

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FDPC : Schedule of Training Programmes

S. No.	Programme Title	Days	Dates
1.	Smart Office Management through Artificial Intelligence (AI) Tools: Enhancing Productivity & Efficiency at Workplace	3 days	28 - 30 April 2026 Port Blair (A&N)
2.	Digital & AI-Enabled Office Administration: Professional Development Program for Executive Secretaries, Personal Assistants & Administrative Staff	3 days	12 - 14 May 2026 Ooty (Tamil Nadu)
3.	AI-Driven Leadership Development: Building Managerial and Team-Building Competencies for Organizational Excellence	3 days	19 - 21 May 2026 Shimla (HP)
4.	Pre-Retirement Planning for a Secure, Healthy & Prosperous Life Ahead	3 days	09 - 11 June 2026 Shillong (Meghalaya)
5.	Capacity Building Program on New Labor Codes: Compliance, Industrial Relations & Best Practices	3 days	16 - 18 June 2026 Gangtok (Sikkim)
6.	Technology-Enabled Wildlife Protection & Management: GPS, GIS, Drones, AI & Smart Surveillance	3 days	23 - 25 June 2026 Coorg (Karnataka)
7.	AI-Enabled Leadership Styles and Team-Building Skills for Organizational Excellence	3 days	14 - 16 July 2026 Munnar (Kerala)
8.	Personality Development (An Ordinary to Extraordinary Personality Empowerment)	3 days	28 - 30 July 2026 Lonavala (Maharashtra)
9.	Enhancing Managerial Effectiveness through Artificial Intelligence	3 days	11-13 August 2026, Goa
10.	AI Applications in Mining Regulation, Safety, and Resource Optimization	3 days	18 - 20 August 2026 Udaipur (Rajasthan)
11.	AI-Integrated Program for Decision Making and Critical Thinking Skills for Organizational Excellence	3 days	25 - 27 August 2026 Leh - Ladakh
12.	Training on Work-Life Balance: A Pathway to Women's Empowerment	3 days	8 - 10 Sept 2026 Jaipur (Rajasthan)
13.	AI for Creative Leadership and High-Performance Team Building	3 days	29 Sept - 01 Oct, 26 Kochi (Kerala)
14.	Training on Secured AI Tools: Microsoft 365 Copilot (Enterprise), Google Gemini & Sarvam AI	3 days	27 - 29 Oct 2026 Goa
15.	Smart Mining with AI: Enhancing Safety, Compliance, and Productivity in PSUs	3 days	17 - 19 Nov 2026 Port Blair (A&N)
16.	Emotional Intelligence and Leadership Skills for Managing Work Life Balance	3 days	25 - 27 Nov 2026 Jaisalmer (Rajasthan)
17.	Management of Training for Training & HR Managers	3 days	08 - 10 Dec 2026 Udaipur (Rajasthan)
18.	ChatGPT and Artificial Intelligence (AI) Tools enhancing Leadership, Productivity & Decision-Making	3 days	15 - 17 Dec 2026 Goa
19.	Teambuilding, Motivation & Leadership Skills for Improving Organizational Performance.	3 days	05 - 07 Jan 2027 Jaipur (Rajasthan)
20.	Smart Office Management through Artificial Intelligence (AI) Tools: Enhancing Productivity & Efficiency at Workplace	3 days	18-20 January 2027 Darjeeling (West Bengal)
21.	Training in Artificial Intelligence (AI) Literacy for Government Officials	3 days	9 - 11 Feb 2027, Goa
22.	Pre-Retirement Planning for Prosperous Life Ahead for Senior Managers, Engineers, Scientists, & Executives	3 days	16 - 18 Feb 2027 Port Blair (A&N)
23.	Pre-Retirement Planning and Succession Management	3 days	23 - 25 Feb 2027 Kathmandu (Nepal)
24.	Building AI-Enabled Competencies for Personal and Organisational Excellence	3 days	16 - 18 Mar 2027 Pondicherry

NOTE: ESCI can also plan the above programmes specific to your organization needs if there is minimum batch size of 15 and above. Venue can be your premises or ESCI campus or any other desired location as suggested by your organization.



Functionalities of the IT Division

The IT Division offers highly focused and practically oriented training programmes across diverse areas of Information Technology. It integrates modern technologies such as Internet of Things (IoT), Data Science, Artificial Intelligence, and Cloud Computing to address the evolving needs of IT professionals in IT Infrastructure Services (ITIS), Software Development, Cyber Security, Data Analytics, and IT Applications.

Key Domain Areas

A. IT Infrastructure Services (ITIS):

- System, Network, Wireless, Windows, and Linux Administration
- Oracle Database Administration, Oracle Data Guard, and Database Security
- Mail Server and Apache Web Server Administration
- Storage Area Networks (SAN) and VMware Administration
- Cloud Services using AWS, OpenStack, and Microsoft Azure

B. Software Development & IT Applications

- Web Development: PHP & MySQL, ASP.NET, HTML5, CSS3, MEAN Stack, React
- Enterprise Application Development using Java
- Mobile Application Development (React Native)
- Software Testing and Quality Assurance
- Oracle Forms and Reports
- ERP Training in SAP (BASIS, FICO, HR, MM, HANA)
- IT Applications: MS Office 2021, MS Project 2021, Oracle Primavera

C. Cyber Security, Data Analytics & IoT

- Cyber Security Best Practices and Cyber Defence Tools
- Digital Forensic Investigation
- Security Audits and Information Security Management Systems (ISO 27001:2022)
- Data Analytics using MS Excel, R, Hadoop, Spark
- Artificial Intelligence and Machine Learning Embedded Systems, Robotics, and Internet of Things (IoT)

In-House / Specialised Training Programmes:

- System & Network Administration (Windows, Linux, Wireless Technologies)
- Database Administration (MS SQL Server 2019, Oracle Data Guard, Database Security)
- Server Management (Mail Servers, Apache Web Server, SAN)
- Cloud Computing (AWS, OpenStack, Microsoft Azure)
- Software Development (PHP, ASP.NET, Java, HTML5, Angular, Android, iOS)
- ERP & IT Applications (SAP – BASIS, HANA, FICO, PS, SCM, HR, MM)
- Industry 4.0 & Emerging Technologies (IoT, AI, ML, Blockchain, Robotics, Cyber Security)
- Cyber Security & Digital Forensics (Ethical Hacking, Mobile Security, Security Audits)
- Data Analytics (MS Excel, Power BI, Tableau, R, SPSS, Hadoop, PySpark)

Certification Programmes:

The division offers short-term (3 to 12 months) Skill Development training programs under designed to prepare students for IT industry roles.

Eligibility: B.Tech (CSE / IT / ECE), B.Sc (Computers), or any relevant graduate.

Key Benefits

- Certification from ESCI after successful completion
- 100% Placement Assurance
- Hands-on Practical Training by Industry Experts
- Well-Designed Curriculum & Study Material
- Advanced IT Lab for Practical Certification Programs/ Training
- Industry Internships
- Interview & Soft Skills Training for Placements

The IT Division remains committed to providing advanced training and skill development to ensure high employability in the IT industry.



IT : Schedule of Training Programmes

S. No.	Programme Title	Days	Dates
1	Project Management & Monitoring using MS Project 2021	3	20 - 22 Apr 26
2	Data Management using MS Access & MS Excel 2019	4	27 - 30 Apr 26
3	GEM Procurement Procedures - Gem Account operation from Basic to expertise (Buyer module)	3	04 - 06 May 26
4	Generative AI for Managers & Team Leaders	3	06 - 08 May 26
5	Cyber Security & Cyber Hygiene for IT / OT Officers	3	18 - 20 May 26
6	Working with BOSS Linux & LibreOffice	4	18 -21 May 26
7	Network & Security Administration	5	01 - 05 June 26
8	Certification on Microsoft Power BI Data Analyst (PL 300)	4	22 - 25 June 26
9	Certification Program on Information Security Management System (ISMS - ISO 27001) Lead Implementer	4	06 - 09 July 26
10	Effective Utilization of MS Office Application for Office Administration	3	20 - 22 July 26
11	Cyber Security Tools & Security Audit	4	27 - 30 July 26
12	AI Powered Full Stack Development with JAVA	5	03 - 07 Aug 26
13	BOSS Linux Administration	4	10 - 13 Aug 26
14	Certification program on MS Azure Cloud Administration (AZ 900 MS Certification)	4	17 - 20 Aug 26
15	Advanced Excel for Report Generation & Analytics	3	07 - 09 Sept 26
16	Empowering Women in the Digital World (Building Cyber & AI Resilience)	3	21 - 23 Sept 26
17	Developing ML and AI applications with Python	5	21- 25 Sept 26
18	Network Administration: Configuring & Securing LANs and WANs	5	05 - 09 Oct 26
19	Procurement Rules for Goods & Services including Gem Portal & GFR 2017 Guideline	3	05 - 07 Oct 26
20	Cyber Security Best Practices for Managers & Executives	3	26 - 28 Oct 26
21	Smart Manufacturing & Process Automation with AI and ML	4	02 - 05 Nov 26
22	Firewall & VPN Security Administration	5	16 - 20 Nov 26
23	Certification Preparation program on Project Management Professional (PMP)	5	16 - 19 Nov 26
24	AI Tools to Enhance Work Productivity (ChatGPT & Copilot Intergradation with MS Office Applications)	3	25 - 27 Nov 26
25	IT Tools & Techniques for Office Administration	3	07 - 09 Dec 26
26	Advanced Cyber Security & Forensic Process for IT Professionals	5	14 - 18 Dec 26
27	Web Development using MERN Stack	5	04 - 08 Jan 27
28	Generative AI & Deep Learning Applications	5	18 - 22 Jan 27
29	Big Data Analysis Using MS Excel & Power BI	4	01 - 04 Feb 27
30	AI Powered Cyber Security risks & prevention techniques	4	08 - 11 Feb 27



S.No.	Name of the course	Duration
1	PG Certification Program in Cyber Security	12 Months
2	Cyber Security Analyst	4 months
3	MERN Stack Development	4 months
4	Data Engineering with Analytics & Visualizations	3 months

Profile of Internal Faculty



Mr. Syed Azgar (Sr. Faculty & Head I/C - IT)

holds an MBA (Information Technology) and brings over 20 years of rich professional experience, comprising 11 years in Corporate Training and 9 years in System Administration across major IT organisations. He is a Red Hat Certified Engineer (RHCE) and a Microsoft Certified System Administrator (MCSA), with strong expertise in IT Infrastructure Management, Linux and Windows Administration, Virtualisation, Cloud Computing, and Information Security. He has successfully trained nearly 6,000 participants, including professionals from Government organisations, Public Sector Undertakings, corporate enterprises, and academic institutions. His training approach emphasizes hands-on practical learning, real-time troubleshooting, and industry best practices, ensuring high knowledge retention and workplace applicability. In addition to training, he has been actively involved in curriculum design, lab setup, mentoring faculty, and aligning IT programmes with emerging technologies and national digital initiatives. As Head I/C of the IT Division, he plays a key role in strategic planning, programme development, industry collaboration, and capacity building, contributing significantly to ESCI's mission of delivering industry-ready IT professionals.

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Ms P Jyothi (Jr. Faculty - IT)

She is a Junior Faculty in the Information Technology Division at the Engineering Staff College of India. She has done Bachelor's degree from Osmania University and Master's in Computer Applications in Marri Laxman Reddy Institute of Technology from Jawaharlal Nehru Technological University. During her academic journey, She has done project works and presentations on latest technology. Certified as trained under Infosys Campus Connect. Her professional interests span across various domains within the realm of Information and Technology. Specifically, she focuses on advanced technologies in ASP .net and latest developments in Power BI, Testing.

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Ms. K Soumya (Jr. Faculty - IT)

She holds a Bachelor's degree in Computer Science and Engineering (CSE) from Trinity Engineering College Karimnagar and a Postgraduate degree in Computer Science from Sree Chaitanya Institute of Technological Science. During her academic journey, she has done project works and presentations on latest technology. With a diverse background, she worked on Salesforce administration and holding certificate. Her professional interests span across various domains within the realm of salesforce. Specifically, she focuses on advanced technologies in Salesforce and latest developments in Power BI. Currently, she contributes to the academic sphere as a Junior Faculty, where she leverages her expertise to educate and inspire future professionals in the field of Information Technology at the Engineering Staff College of India.

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Functionalities of the Management & Technology Division

The Management & Technology Division of Engineering Staff College of India (ESCI) is committed to delivering future-ready Continual Professional Development Programmes (CPDPs), customized capacity-building initiatives, and industry-aligned consultancy services. The Division actively supports Public Sector Undertakings (PSUs), Defence organizations, R&D institutions, private industries, academic institutions, and start-ups in enhancing leadership capability, technological competence, innovation potential, and organizational excellence. All programmes are designed in alignment with contemporary industrial practices, national policy initiatives, defence and strategic sector requirements, sustainability goals, and internationally accepted engineering and management standards.

Key Domain Areas

A. Management & Leadership Development

1. Behavioural, Leadership & Life Skills

- Strategic Leadership & Executive Development
- Communication Excellence & Managerial Effectiveness
- Emotional Intelligence, Stress Management & Mental Well-Being
- Team Building, Collaboration, Change & Conflict Management
- Ethics, Governance & Organizational Culture

2. Techno-Management & Business Excellence

- Human Resource Management & Talent Development
- Financial Management for Engineers & Executives
- Operations, Supply Chain & Logistics Management
- Risk Assessment, Contract & Claims Management
- Knowledge Management & Digital Transformation
- ERP Systems, Business Analytics & Decision Support Systems

B. Technology & Engineering Domains

1. Core & Advanced Engineering Technologies

- Supercritical & Advanced Power Plant Technologies
- Welding Engineering, NDT, Metallurgy & Structural Integrity
- Corrosion Engineering, Surface Coatings & Failure Prevention
- Rotating Equipment, Thermal Systems & Condition Monitoring

2. Digital, Smart & Emerging Technologies

- Product Design & Development (CAD / CAE / CFD)
- PLM, Digital Engineering Tools & Digital Twins
- Robotics, Intelligent Automation & Smart Manufacturing
- Artificial Intelligence (AI), Machine Learning, IoT & Predictive Maintenance

3. Sustainability, Innovation & Entrepreneurship

- Green Boot Camps & Technology Commercialization

Specialized In-House & Customized Training Programmes

- Labour laws, industrial relations, contract management, and employer obligations
- NDT certification (Level I & II), failure analysis, and metallurgical quality control
- Advanced manufacturing, metal forming, forging, and process optimization
- Project risk management, managerial excellence, faculty development, and student internships
- Occupational health & safety compliance (ISO / OSHA), environmental management, and sustainability practices
- Digital transformation in industry, data analytics, and smart manufacturing systems
- Leadership development, change management, communication skills, and workforce productivity enhancement
- Project Management (PMP) certification training programmes using MS Project and Primavera P6 software

Consultancy, Research & Knowledge Services

- Failure analysis, welding, NDT, and structural health assessments
- Industrial design, prototyping, reverse engineering, and new product development
- Value engineering, process optimization, automation, and technical audits
- Applied research, sponsored projects, competency assessment design, and skill mapping

Commitment

The Management & Technology Division of Engineering Staff College of India (ESCI) is committed to serving as a strategic knowledge partner in enhancing technical and managerial competence, strengthening innovation and indigenization capabilities, improving operational efficiency, quality, and safety, and developing future-ready leaders aligned with national and global priorities.



M&T : Schedule of Training Programmes

S. No.	Programme Title	Days	Dates
1	Human Resource (HR) and Competency based Performance Management Systems	4	20 – 23 Apr. 26
2	Industrial Relations Management and Labour Law Compliance	3	04 – 06 May 26
3	Integrated Foundry Technologies and Heat Treatment Practices for Quality Metal Components	5	18 – 22 May 26
4	Conflict Management and Negotiation Skills	4	01-04 Jun. 26
5	Advanced Corrosion Engineering and High-Performance Protective Coatings	5	08 – 12 Jun. 26
6	Fire Fighting Systems, Safety and Emergency Response	4	22 – 25 Jun. 26
7	Vibrations, Balancing, Alignment and Condition Monitoring of Rotating Equipment's (Theory and Practical Orientation with Technical Site Visit)	5	06 – 10 Jul. 26
8	Creative Leadership for Technology Managers in the Era of Automation & Digitalization	4	13 – 16 Jul. 26
9	Advancements in Welding Techniques with Practical Understanding of Codes and WPS	5	20 – 24 Jul. 26
10	Stress Management and Work-life Balance	3	03 – 05 Aug. 26
11	Heating, Ventilation and Air Conditioning (HVAC) Systems in different Industries	5	03 – 07 Aug. 26
12	Structure-Borne and Air-Borne Noise: Fundamentals, Measurement & Control	4	10 – 13 Aug. 26
13	NDT Level II Certification in Ultrasonic Technique (in Accordance with ASNT Document No. SNTC-1A 2020)	5	17 – 21 Aug. 26
14	Financial Management, Budgeting and Procurement	4	07 – 10 Sep. 26
15	Advancements in Centrifugal, Reciprocating and Axial Compressor Systems: Design, Operation, Maintenance and Troubleshooting	4	21 – 24 Sep. 26
16	Artificial Intelligence (AI) in Defence: A Roadmap for the future of the Defence Industry	3	28 – 30 Sep. 26
17	Industrial Bearings Revisited- Maintenance, Condition Monitoring, Analysis and Prevention of Failures	4	05 – 08 Oct. 26
18	NDT Level II Certification in Radiographic Testing (in Accordance with ASNT Document No. SNTC-1A 2020)	5	26 – 30 Oct. 26
19	Change management, Creative and Inventive Thinking	4	26 – 29 Oct. 26
20	Advanced Project Management using M.S. Project and Primavera P6 (Hands-on Training)	5	09 – 13 Nov. 26
21	Industrial Piping Practices: Design, Installation and Maintenance	4	16 – 19 Nov. 26
22	Team Building and People Management Skills	3	16 – 18 Nov. 26
23	Non-Destructive Testing (NDT) and Failure Analysis of Castings, Forgings, Weldments, Pipes and Tubes	4	23 – 26 Nov. 26
24	Women for good Governance and Leadership	4	30 Nov – 03 Dec 26
25	Maintenance and Performance Monitoring of Centrifugal Pumps and Blowers	4	07 – 10 Dec. 26
26	NDT Level II Certification in Dye Penetrant Inspection (DPI) and Magnetic Particle Inspection (MPI) (in Accordance with ASNT Document No. SNT-TC-1A 2020)	5	14 – 18 Dec. 26
27	Presentation and Public Speaking Skills	3	04 – 06 Jan. 27
28	3D Modeling and Product Design with NX 3D modelling software (Hands-on Training)	4	18 – 21 Jan. 27
29	Maintenance and Troubleshooting of Hydraulic and Pneumatic Systems	4	18 – 21 Jan. 27
30	Decision Making and Problem-Solving Skills	3	01 – 03 Feb. 27
31	Detect Flaws and System Failures in Naval Machinery using AI Tools	4	22 – 25 Feb. 27
32	Pre-Retirement Planning & Financial Well-Being	4	08 – 11 Mar. 27



NOTE : We also conduct customized training programmes at the Clients location.

- (a) Consultancy Services in HR & Technological Domains.
- (b) Programmes & training on Disruptive Technologies/Emerging Technologies.
- (c) Industrial Internship for students on various softwares & advanced technologies.

Certification Course:

S.No.	Name of the course	Remarks
1	Non-Destructive Testing Level - I & II : Liquid Penetrant- Magnetic Particle Inspection - Ultrasonic - Radiography Testing as per ASNT Document No: SNT-TC-1A	Duration: 5 days
2	Stress Management (Leads to International Certification Accredited by international council of stress management professional, Sydney, Australia)	Duration: 3 days
3	VCAT-I & II Vibration Analysis Course	Duration: 4 days
4	Behavioral competency professional certification from ISMA	Duration: 3 days
5	Software training on ANSYS, CFD, AUTOCAD, ANSA, MATLAB & SIMULINK, HYPERMESH & AVEVA	Duration: 5 days
6	CIP Level I & II (Coatings Inspector Courses)	Duration: 5 days
7	Welding Inspector (CSWIP 3.1 & 3.2)	Duration: 5 days

Profile of Internal Faculty



Dr. U S Jyothi (Sr. Faculty & Head I/c - M&T)

She holds a Ph.D. from Jawaharlal Nehru Technological University, Hyderabad, Telangana. She served as Professor of Mechanical Engineering for 12 years in GRIET, Hyderabad. Her academic expertise spans Thermal Engineering, Heat Transfer, IC Engines etc. She played a key role in course management, laboratory establishment, outcome-based education implementation, and conducted extensive hands-on training, workshops, and industry-collaborated programs. Prior to academia, she served 12 years in APSRTC as Deputy Chief Mechanical Engineer and in various leadership roles. Her responsibilities encompassed fleet performance optimization, procurement and inventory management, HR and training, industrial relations, financial planning, and operational excellence, reflecting effective leadership and strategic execution. Her research contributions include 30 publications, focusing on IC engine performance enhancement using biofuels and hydrogen in dual-fuel mode etc. She has presented her work at International conferences, including ASME Power & Energy Conference (USA), further served as a reviewer and session chair, delivered FDP lectures, and holds a published patent and has successfully executed funded projects sponsored by UGC and JNTUH-TEQIP III.

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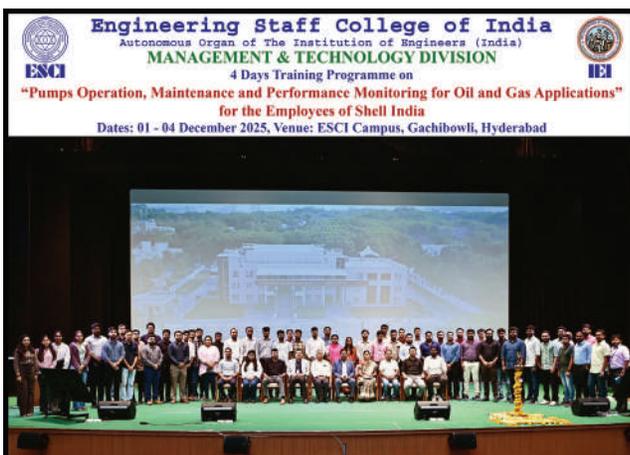


Dr. Katti Bharath, Faculty - (M&T)

He is an accomplished researcher and academic specializing in metal forming, modeling, and simulation. He holds a B.Tech. in Mechanical Engineering from MGIT-Hyderabad and an M.Tech. and Ph.D. from NIT Warangal, with his doctoral research focusing on the simulation and modeling of aluminum alloys in metal forming. He has published 15 research papers in reputed national and international journals and has presented numerous technical papers at conferences. During his tenure at DMRL (DRDO), he contributed to various government projects. Recognized for his research contributions, he received the Research Excellence Award (2020) from the Institute of Scholars (InSc) and best presentation awards at international conferences. His key research interests include metal forming, deformation, lightweight metals, welding, NDT, and simulation & modeling. Dr. Bharath also serves as a reviewer for four international journals and is an editor for IIP Iterative International Publisher. He remains actively engaged in teaching, research, and institutional development. **Ph : 040 - 66304105, Mob : 7097282619**

Mr. S. Vijay Kumar, Asst. Program Officer (Training) **Ph : 040 - 66304112, Mob : 9573214387**

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Functionalities of Mining Engineering Division

The Mining Engineering Division is dedicated to developing and imparting professional training, disseminating knowledge on best, safe, and sustainable practices, and sharing the latest technological advancements to enhance the skills of executives, engineers, supervisors, and technical personnel in the mining sector. Supported by a strong network of experienced in-house faculty and empanelled industry experts, the Division delivers high-quality training, education, safety audits, and consultancy services in mining, allied engineering, and techno-management domains. These services are tailored to meet the specific requirements of the mining industry, including DST-sponsored projects.

Areas of Expertise:

- National Mineral Policy, Mineral Security, Critical Minerals, and Rare Earth Elements
- Resource Estimation, Mineral Economics, and Geostatistics
- Occupational Safety and Health: Hazard Identification, Risk Assessment, Safety and Health Management Plans
- Trends in Mechanisation, Mining Technologies, and Underground and Opencast Mining Methods
- Mine Management, Mining Legislation, and Regulatory Compliance
- Geological Modelling, Mining Plans, Project Reports, Environmental Management Plans, and Mine Planning Software
- Environmental Laws, Policies, and Environmental Impact Assessment
- Mine Ventilation, Environmental Hazards, and Monitoring
- Sustainable Mining Practices, CSR, Social Impact Assessment, Resettlement & Rehabilitation (R&R), and District Mineral Foundation (DMF)
- Mineral Beneficiation, Conservation, Recycling, and Quality Management
- Green Mining Technologies: CBM, CMM, UCG, and Coal-to-Liquid (CTL)
- Smart Mining: IoT, Smart Sensors, Artificial Intelligence, Machine Learning, and Numerical Modelling
- Design and Optimisation of Drilling and Blasting for Mines, Quarries, and Infrastructure Projects
- Mining Machinery, Material Handling and Conveying Systems, Condition Monitoring, Predictive Maintenance, and Resource Optimisation
- Operations and Maintenance (O&M) Efficiency and Productivity Enhancement
- Safety Audits and Spot Inspections in Coal, Iron Ore, and Limestone Mines (Public and Private Sectors)
- Organisational Resource Management and Productivity Improvement
- Outsourcing Models, Contract Management, and Mine Developer-cum-Operator (MDO) Concepts
- Practical Training in Opencast and Underground Mines and Coal Handling Plants
- Advanced Land and Mine Surveying: Total Station, DGPS, Drones, LiDAR, and 3D Laser Scanner
- Integrated Management Systems: ISO, TPM, and Kaizen
- Site-Specific and Need Based Training Programmes
- Induction Programmes for New Recruits and Professional Development for Trade Union Leaders and Technical Supervisors
- Alternative Energy Sources and Waste-to-Resource Technologies

In-House / Specialised Training Programmes:

- Drilling and Blasting
- Mine Design and Slope Stability Monitoring
- Resource Optimisation in Opencast Mines
- Design of Haul Roads
- Risk Assessment and Safety Management Plans
- Sustainable Mining Practices
- Induction Programmes for Newly Recruited Engineers
- Predictive Maintenance of Heavy Earth Moving Machinery (HEMM)
- Smart Mining Applications

Consultancy Services:

- Strata Monitoring and Control Management Techniques
- Design and Optimisation of Blasting in Opencast and Underground Mines
- Mine Ventilation and Mine Environment Engineering
- Subsidence Studies
- Safety, Quality, and Environmental Audits
- Quality Management Systems and ISO Accreditation



- HEMM Tyre Management
- Transport and Logistics Engineering
- Comprehensive Assessments, Documentation, and Compendium Preparation
- Performance Management Systems for Executives
- Asset Management Solutions
- Application of IoT, Smart Sensors, AI, Drones, and

Advanced Monitoring Technologies for Slopes, Strata, and HEMM

- Training, Coaching, Skill Development, and Induction & Orientation Programmes

Commitment:

The Mining Engineering Division remains committed to safe, sustainable, and technology-driven mining practices, supporting the mining industry through capacity building, innovation, and consultancy excellence.

Profile of Internal Faculty



Er K J Amarnath (Sr. Faculty & Head I/C - Mining)

He is a Gold Medalist, in BE (Mining Engineering) from College of Engineering, Osmania University, Hyderabad and holder of First Class Manager's Certificate of Competency issued by The Director General of Mines Safety. He retired as Chief General Manager from The Singareni Collieries Company Ltd. (A Government Company). Further, he was a Director in NSGPVL, A Joint Venture Company of NTPC Ltd. and The Singareni Collieries Company Ltd. He visited the United Kingdom, Spain, United States of America & Australia. He was on the Board of Studies in University College of Engineering, Kakatiya University and College of Engineering, Osmania University. He is a Fellow of Institution of Engineers and Life Member of MEAI, MGMI. He is the Vice Chairman of MGMI, Hyderabad Chapter. Presently, he is employed as Senior Faculty-Head, Mining Division, Engineering Staff College of India, Hyderabad.

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Mrs. K Satya Lakshmi, Officer (Prog)

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Mining : Schedule of Training Programmes

S. No.	Programme Title	Days	Dates
1.	Decoding Rock Blasting	5	6-10 April 2026
2.	Integrated Mine Safety Leadership Programme	5	20-24 April 2026
3.	Mechanization and Mining Technology for Maximizing Extraction of Ores & Minerals	3	6-8 May 2026
4.	Eco-Friendly Approaches and Sustainable Practices in Mining Operations	3	13-15 May 2026
5.	Advanced Instrumentation & Techniques, Data Analysis & Computation in Surveying	5	18 -22 May 2026
6.	Potential of Strategically Critical Minerals in India for Energy Security	2	28-29 May 2026
7.	Essentials of Mining Plans, Environmental Plans & Project Reports	3	3-5 June 2026
8.	Leadership and Management Development Programme for Mining Professionals	3	10-12 June 2026
9.	Leveraging Advanced Technology to Enhance Performance in Opencast Mines	4	16-19 June 2026
10.	Competency Enhancement Training for Mining, Mechanical and Electrical Supervisors	3	23-25 June 2026
11.	Promotion of Safety by Efficient Operation, Maintenance, Energy & Safety Audit of Electrical Equipment in Mines	3	1-3 July 2026
12.	Transforming Mine- Wastes into Valuable Resources	3	15-17 July 2026
13.	Emerging Practices and Innovations for Safe & Productive Drilling and Blasting in Opencast Mines	3	22-24 July 2026
14.	Promotion of Social and Environmental Well-Being in Mining Areas	3	29-31 July 2026
15.	Comprehensive Course on Mine Surveying	3	5-7 August 2026
16.	Geology-Exploration-Beneficiation of Minerals for Managers, Geologist & Engineers	3	12-14 August 2026
17.	Integrated Mine Planning and Development for Assistant Managers-Under Managers	3	1-3 September 2026
18.	Techno-Management Programme for Safety-Officers Working in Mines	3	9-11 September 2026
19.	Advanced Fleet Monitoring and Control Systems for Safe & Productivity Operation in Opencast Mining	3	16-18 September 2026
20.	Executive Development Programme for Trade Union Leaders	3	7-9 October 2026
21.	Workplace Safety Compliance Training for Mining Operations	3	28-30 October 2026
22.	Fundamentals of Mining for Non-Mining Professionals	3	17-19 November 2026
23.	3–Day National Seminar on “Earth Sciences For Sustainability”	3	25-27 November 2026
24.	Mitigation of Occupational Safety & Health Challenges in Mining	4	1-4 December 2026
25.	Geo-Mining Software Tools: Exploration to Excavation	3	9-11 December 2026
26.	Integrated Technical and Managerial Course for Mining Professionals	3	16-18 December 2026
27.	Sustainable Mining Approaches	5	4 – 8 January 2027
28.	Technical and Supervisory Competence Development for Overmen, Foremen & Supervisors	3	20-22 January 2027
29.	Comprehensive Course for Workmen’s Inspectors, Pit-Safety Committee Members	3	3-5 February 2027
30.	Principles & Techniques involved in Drilling & Blasting in Mines for Managing Impacts on Environment and Community	3	10-12 February 2027
31.	Integrated Resource Optimization and Maximizing Performance of HEMM through Skilled Operation , Preventive & Predictive Maintenance	3	24-26 February 2027
32.	Professional Training for Contractors and Operators in Coal Mining Projects	3	3-5 March 2027
33.	Developing and Implementing Comprehensive Safety Management Plans	3	10-12 March 2027



Functionalities of Power & Energy Division

The **Power & Energy Division** is instrumental in professional training and knowledge dissemination across the power utility value chain—Generation, Transmission, Distribution and Renewable Energy, as well as the broader energy sector. Its primary focus is on implementing best practices in Captive Power Plants and process industries to enhance efficiency, reliability, and sustainability.

Key Domain Areas

(a) Power Generation (Thermal, Hydro & Gas)

- **Protection & Control:** Power System Protection and C&I (PLC & DCS).
- **O&M Excellence:** Best practices in O&M of power plant equipment, including valves and actuators.
- **Asset Performance:** Design and performance of heat exchangers, pumps, and coal pulverizers.
- **Maintenance Strategy:** Condition Monitoring and Reliability-Centered Maintenance (RCM).
- **Fuel Management:** Blending of coal.
- **Compliance:** Electrical safety procedures and regulatory compliance.

(b) Solar Power

- Installation of Rooftop Solar PV modules.
- Renewable energy generation and seamless grid integration.

(c) Transmission

- **Equipment O&M:** Power transformers and EHT circuit breakers.
- **Infrastructure:** Power cable selection and maintenance.
- **Efficiency:** Energy audits and loss reduction in T&D systems.
- **Market Operations:** Open Access and Power Trading.
- **Modernization:** Smart Grids, Substation Automation Systems (SAS), and advanced monitoring.

(d) Distribution

- **Smart Infrastructure:** Smart Grids, Smart Meters, and Digital Energy Meters.
- **Commercial Management:** Revenue management, statutory regulatory issues, and pilferage prevention.

- **Operational Models:** Franchisee models and O&M of distribution transformers/substations.

(e) Industry, Oil & Gas

- O&M of compressors, drives, drilling rigs, and oil field equipment.
- Risk-based in-service inspection and safety in petroleum refineries and petrochemicals.

(f) Energy & Consultancy

- **Energy Management:** Energy audits and pre-training for Energy Manager Certification.
- **Advisory:** Comprehensive consultancy for Generation, Transmission, Distribution, and Renewable Grid Integration.

In-House & Specific Training Programmes

The division offers specialized training in several technical and managerial areas:

- **Systems:** Effective Material Management and e-Procurement.
- **Technical Skills:** Power cable testing, fault finding, and transformer rewinding (up to 5 MVA).
- **Regulatory:** PAT (Perform, Achieve, Trade) mechanism, Open Access, and ABT (Availability Based Tariff) scenarios.
- **Safety:** Accident prevention, safety rules, and earthing practices.
- **Operations:** Flexibilization of thermal power plants, Gas Turbine maintenance, and Boiler/Cooling Water chemistry.

Consultancy Services

The division provides expert advisory services across various sectors:

- **Audits:** Energy and Safety audits for utilities (Transco, Genco, Discoms), mines, cement, fertilizer, and paper mills.
- **Renewables:** DPR (Detailed Project Report) preparation and healthiness assessment for Solar PV plants.
- **Municipal Services:** Demand Side Management (DSM) and third-party verification for ULB street lighting.
- **Optimization:** Power plant KPI evaluation, manpower assessment, and spare part optimization.
- **Governance:** Electricity pilferage consultancy and PAT scheme compliance.



Profile of Internal Faculty



Er. U Vidya Sagar (Sr. Faculty & Head - P&E)

He prior to his joining, he retired in the cadre of Chief Engineer (CGM) from Southern Power Distribution Company of Telangana (TSSPDCL) after a three decades of service rendered in erstwhile APSEB, AP Transco and APCPDCL in combined states of AP and in present TSSPDCL in Telangana State. Graduated in Electrical Engineering, and Post-Graduation in Computer Science both from O.U. College of Engineering, and Post Graduate Diploma in Energy Management from University of HCU, Hyderabad. He received many awards/ rewards to his credit during the service such as "Best Divisional Engineer Operation" in 2007, "Sir Mokshagundam Visveshwarayya Award" in 2013 for Best Performing Engineer, "Dr. Abdul Kalam Excellence Award" - 2017, etc. He worked in various capacities i.e., CGM (Metro Zone, Hyd), CGM/ (O&M), SE Operation / Ranga Reddy Circle, SE (IPC), SE (LMRC), SE (Assessments), DE / Tech to Chairman & MD, DE/ opns, etc.,

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Dr. V Vidyasagar (Sr. Faculty - P&E)

He is a Doctorate in Mechanical Engineering from RTM Nagpur University, Nagpur. Certified Energy Auditor from Bureau of Energy Efficiency, (GoI). Retired as Director from National Power Training Institute, Min. of Power (GOI). Contributed for about 26 years in the training of Power Sector Personnel. A faculty on Full scope, Real Time, Fossil fuel fired, 210 MWe, Thermal Power Unit, Operation Simulator, conducted training programs for various levels of engineers in Operation & Performance monitoring aspects of Thermal Power Plants. Prepared training Manuals on "Atmospheric Fluidized Bed (AFBC) Boilers" & "Boiler Tube Failure Analysis & Prevention"

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Mr. M Srikanth (Faculty - P&E)

He holds a bachelor's degree in electrical and Electronics Engineering from Jawaharlal Nehru Technological University Hyderabad and a Postgraduate degree in Power Electronics from Kakatiya Institute of Technology and Science. During his academic career, he secured 3rd position in a State-level Technical Fest conducted at JNTUH, demonstrating strong technical competence and dedication. With over eight years of combined professional experience, including three years in academia and two years as a Project Engineer in industry, he brings a balanced blend of practical and teaching expertise. His professional interests encompass Solar Energy systems ranging from 1 kW to MW-scale installations, advancements in Electric Vehicle technologies, and Distribution Substation systems. He has also served as a Nodal Officer for capacity-building training programs sponsored by Power Finance Corporation under the Revamped Distribution Sector Scheme (RDSS) of the Ministry of Power, Government of India. He is currently working as a Faculty - Power & Energy (P&E) at Engineering Staff College of India and is committed to mentoring and developing skilled professionals in the Power and Energy sector.

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Ms. M. Bhargavi (Jr. Faculty - P&E)

A motivated professional with a background in Computer Science Engineering and MBA, joined ESCI in 2025 & currently working as a Junior Faculty at the Engineering Staff College of India (ESCI). I am closely associated in training programs, coordinating documentation and assisting the classroom activities in the Govt. of India, MoP sponsored RDSS programs. I possess strong analytical, technical, and problem-solving skills, complemented by certifications in Power BI, Digital Marketing, Inventory Management, and AI chatbot development. With hands-on experience in AI-driven and data analytics projects, along with effective communication, teamwork, and organizational abilities, I am passionate about process optimization, data-driven decision-making, and contributing to organizational efficiency and strategic growth

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P&E : Schedule of Training Programmes

S. No.	Programme Title	Days	Dates
1	Failure Analysis of Power & Distribution Transformers, Switchgears, Battery & Battery Charges	4	27 - 30 Apr, 26
2	Renewable Energy Systems - Wind & Solar - Grid Integration	4	12 - 15 May, 26
3	Electrical Safety Procedures & Accident Prevention as per CEA Regulations 2023	4	19 - 22 May, 26
4	Rooftop Solar PV Grid - Design, Erection, Commissioning & Maintenance - PM Suryagharyojana Scheme	3	03 - 05 June, 26
5	Substation Automation and Smart Grids & Its Protocols	4	09 - 12 June, 26
6	Environmental Issues, Challenges & Pollution Control Strategies in Thermal Power Plants	3	23 - 25 June, 26
7	Franchise Models of Distribution Systems - Issues and Challenges	3	08 - 10 July, 26
8	Power Plant Chemistry for Chemists and Operation Engineers	3	14 - 16 July, 26
9	Gas Insulated Switchgear (GIS) Substations - Design features, Construction, Testing, Operation and Maintenance including Field Visit	4	28 - 31 July, 26
10	Operation, Maintenance & Testing of Power Transformers and HT & EHT Circuit Breakers	4	04 - 07 Aug, 26
11	Latest Technologies in Solar PV - Battery Energy Storage System (BESS)	4	11 - 14 Aug, 26
12	Flexibilization of Thermal Power Plants	3	18 - 20 Aug, 26
13	Power System Protection - Principles, Protection Relay and Fault Analysis & Reliability Compliance	4	08 - 11 Sept, 26
14	Advanced O&M Practices of Super Critical Thermal Power Plants	3	22- 24 Sept, 26
15	Pilferage of Electricity - Detection & Prevention - Issues & Challenges	3	28 - 30 Sept, 26
16	Best Practices in O&M of Coal & Ash Handling Plants	3	06 - 08 Oct, 26
17	Power Cables Selection, testing, Laying, Commissioning & Fault Detection	3	13 - 15 Oct, 26
18	Pumps Operation, Maintenance & Performance Monitoring for Power Plant Applications	3	27 - 29 Oct, 26
19	Best Earthing Practices and Safety Measures in EHV Substations	4	03 - 06 Nov, 26
20	Challenges & Opportunities in EVs, Charging Stations and Grid Infrastructure - Latest EV Govt. Policies	4	10 - 13 Nov, 26
21	Transmission Line Construction (Survey, Design of lines and construction practices)	4	17 - 20 Nov, 26
22	CERC Regulations Including Tariff Regulations	4	24 - 27 Nov, 26
23	Advanced Control & Instrumentation for Professionals of Thermal Power Plants and Process Industries	3	02 - 04 Dec, 26
24	Best Practices in Operation & Maintenance of EHV Substations (GIS & AIS)	3	08 - 10 Dec, 26
25	Innovative Practices and Financial healthiness of the DISCOMs- Issues & Challenges for Non Technical personal (Technical & Financial Aspects)	3	15 - 17 Dec, 26
26	Pumped Storage for Sustainable Power System - Implementation Challenges	3	05 - 07 Jan, 27
27	CEA Regulations 2023 - Measures relating to Safety, Electric Supply Rules, Associated Maintenance & Safety Practices, Grid Operation, Connectivity for ensuring Power Quality	4	19 - 22 Jan, 27
28	IT Solutions in DISCOMs	3	27 - 29 Jan, 27
29	Best Practices in O&M of Hydro Power Plants	4	02 - 05 Feb, 27
30	Cyber Security Issues in Power Sector	3	09 - 11 Feb, 27
31	Tariff Policy - Basics of Tariff Calculation & Procedure / Information Required for Preparation of Tariff Petition (ARR) & Energy Scheduling	3	16 - 18 Feb, 27
32	Boiler Tube Failure Analysis & Preventive Measures	3	24 - 26 Feb, 27
33	Penetration of Renewables - Technical Challenges and Regulatory Framework	3	02 - 04 Mar, 27
34	Smart Meter Integration, Micro Grid Management - PMU Asset Management in T&D Utilities	4	09 - 12 Mar, 27
35	Super Critical and Sub Critical Boilers; Issues and Challenges of Cooling Water Chemistry in Power Plants and Process Industries	3	16- 18 Mar, 27



Functionalities of Q & P Division

The Quality & Productivity (Q&P) Division is dedicated to designing and delivering structured training programmes aimed at enhancing product and service quality, organisational efficiency, and operational excellence across diverse sectors. The Division specialises in the continual improvement of systems, products, and processes through contemporary quality improvement tools, methodologies, and best practices. It also provides consultancy services for accreditation and certification, supporting organisations, MSMEs and in implementing effective quality and productivity enhancement initiatives.

Key Domain Expertise:

A. Management Systems

- ISO 9001 – Quality Management System (QMS)
- ISO 14001 – Environmental Management System (EMS)
- ISO 45001 – Occupational Health & Safety Management System (OHSMS)
- ISO 50001 – Energy Management System (EnMS)
- ISO 22001 – Food Safety Management System (FSMS)
- ISO/IEC 17025:2017 – NABL Laboratory Accreditation
- ISO 27001 – Information Security Management System (ISMS)
- ISO 37001 – Anti-Bribery Management System
- IATF 16949:2016 – Automotive Quality Management System
- Business Continuity Management System

B. Functional Excellence

- Training Needs Analysis (TNA)
- Total Quality in Human Resources Processes
- Total Quality in Purchasing and Supply Chain
- Total Quality in R&D and Vigilance
- Laboratory Quality: Calibration and Measurement of Uncertainty
- Marketing Excellence: Measurement of Customer Satisfaction

C. Quality Management Tools & Methodologies

- 5S for Workplace Excellence
- Quality Circles
- Lean Manufacturing
- Total Productive Maintenance (TPM)
- Seven Quality Control (7QC) Tools
- Benchmarking

- Quality and Reliability Engineering
- Total Quality Management (TQM)
- Structured Problem-Solving Techniques
- Six Sigma Green Belt
- Industry 4.0 Implementation

D. Consultancy Support for Certification & Implementation

- ISO 9001:2015 – QMS, ISO 14001:2015 – EMS, ISO 45001:2018 – OHSMS, ISO/IEC 17025:2017 – NABL, ISO 22001:2018 – FSMS, ISO 27001 – ISMS, ISO 37001 – Anti-Bribery Management System, ISO 50001 – Energy Management System, Implementation of 5S, TPM, Resource Optimisation, Waste Elimination, and Workload Levelling

In-House / Specialised Training Programmes:

- Recognised Certification Programmes - (Transition / Internal / Lead Auditor Training)
- ISO 9001, ISO 14001, ISO 45001, ISO 50001, ISO 27001, ISO 37001
- AS 9100D – QMS for Aviation, Space & Defence Organisations
- IAQG Maturity Model
- ISO/IEC 17025:2017 – NABL Accreditation
- Measurement of Uncertainty
- Industry 5.0 – Cobotics and Green Manufacturing
- Japanese Quality Systems: JIT, TPM, and 5S
- ISO 22001:2018– FSMS Awareness & Internal Audit
- IATF 16949:2016 – Awareness & Internal Auditor Training
- Industrial Safety with Quality Focus
- Value Stream Mapping for Lead Time Optimisation
- Seven QC Tools for Effective Quality Management
- Faculty & Staff Development Programmes / Workshops
- NBA – Self-Assessment Report (SAR) Preparation
- NAAC Accreditation Programmes
- Certification Course -Pedagogy, Research, and Entrepreneurship Development

Commitment:

The Q&P Division remains committed to advancing quality, productivity, and efficiency in industries and institutions through structured training programmes, accreditation support, and expert consultancy services.



Q&P: Schedule of Training Programmes

S. No.	Programme Title	Days	Dates
1.	Tools of Quality: The Basic Seven, the Advanced Seven, and the Futuristic Many for Excellence in Operational Efficiency	3	06 – 08 April, 26
2.	Lean Manufacturing and Toyota Production System	3	20 – 22 April, 26
3.	Laboratory Management System and NABL Accreditation as per ISO/IEC 17025:2017: Awareness, Implementation and Internal Auditor Training	4	27 – 30 April, 26
4.	Quality Management for Root Cause Analysis	3	04 – 06 May, 26
5.	Business Intelligence Tools - Power BI, Tableau and other soft wares	3	11 – 13 May, 26
6.	Industry 4.0 and Smart Manufacturing	4	18 – 21 May, 26
7.	Lean Six Sigma Green Belt for Business Excellence	4	01 – 04 June, 26
8.	For QMS safety and Security Information Security Management System ISO 27001:2022: Awareness and Implementation	3	08 – 10 June, 26
9.	Quality Improvements in Contract drafting and Management for Works and Procurement: in line with GFR 2017 and DoE Guidelines	3	15 – 17 June, 26
10.	Awareness and Preparedness for NADCAP certification for special process for Aerospace Organizations	3	22 – 24 June, 26
11.	QMS Effective Implementation and Internal Auditor Training (ISO 9001:2015 Effective Implementation and Internal Auditor Training)	3	06 – 08 July, 26
12.	Business Excellence Through Total Quality Management TQM	3	13 – 15 July, 26
13.	Disciplinary Proceedings in Central Govt Offices/PSU	3	20 – 22 July, 26
14.	Business Excellence Through Effective Communication, Negotiation Skills and conflict Management	3	27 – 29 July, 26
15.	Aerospace Standard AS 9100 Rev D: Awareness and Effective Implementation	3	03 – 05 Aug, 26
16.	Finance Management for Non Finance personnel for Business Excellence	3	10 – 12 Aug, 26
17.	Application of AI and ML for Production and Quality Control in Manufacturing Industry	3	17 – 19 Aug, 26
18.	Maintenance Strategies for zero breakdown (Condition-Based Monitoring of Machinery for Predictive & Proactive Maintenance) for overall Improvement in Operational Efficiency	3	24 – 26 Aug, 26
19.	For QMS safety and security Information Security Management System ISO 27001:2022: Awareness and Implementation	3	07 – 09 Sept 26
20.	Right to information Act	2	21 – 22 Sept, 26
21.	AI, IOT and Digital Tools for achieving Total Quality in Vigilance	3	05 – 07 Oct, 26
22.	Laboratory Management System and NABL Accreditation as per ISO/IEC 17025:2017: Awareness, Implementation and Internal Auditor Training	4	12 – 15 Oct, 26
23.	Root Cause Analysis for Business Excellence	3	26 – 28 Oct, 26
24.	Measurement Uncertainty of Chemical & Mechanical Parameters by Guide for Uncertainty Measurement (GUM) Method	3	02 – 04 Nov, 26
25.	Stress Management, Work Life Balance for improved Quality of Life	3	09 – 11 Nov, 26
26.	Creativity & Innovation for Quality and Business Excellence	3	16 – 18 Nov, 26
27.	Lean Six Sigma Green Belt for Service Sector for Business Excellence	4	23 – 26 Nov, 26
28.	Quality, Reliability Risk and Safety Management	3	30 Nov – 2 Dec, 26
29.	ISO 9001:2015 - Lead Auditor Training (CQI-IRCA-UK Certified)	5	07 – 11 Dec, 26
30.	Analytical thinking for decision making on Quality for Engineers & Managers	3	14 – 16 Dec, 26
31.	Training on E procurement and GeM Tendering for Engineering Industry	2	21 – 22 Dec, 26
32.	Environmental, Social and Governance Framework (ESG), and Business Responsibility and Sustainability Report (BRSR)	3	28 – 30 Dec, 26
33.	Integrated Management System (AS 9100D, AS 9110 and AS 9120, and EMS & OHSAS Standards ISO 1400:2015, ISO 45001:2018)	5	04 – 08 Jan, 27



Q&P: Schedule of Training Programmes

S. No.	Programme Title	Days	Dates
34	Industry 5.0 Agile Manufacturing and Smart Manufacturing	4	18 – 21 Jan, 27
35	Quality in Health Care	2	27 – 28 Jan, 27
36	DGCA CAR (Civil Aviation Requirement) *	8	01 – 10 Feb, 27
37	Quality Improvements in Contract Drafting and Management for works and Procurement: GFR 2017 and DoE Guidelines	3	15 – 17 Feb, 27
38	ISO 9001:2015 Effective Implementation and Internal Auditor Training	4	22 – 25 Feb, 27
39	Methodology and Tools for Quality Management - Lean Six Sigma and Lean Management	4	01 – 04 Mar, 27
40	Mistake Prevention and Mistake Proofing Technics	3	08 – 10 Mar, 27
41	Taxation structure, Income tax rules, Future Savings Plans and GST rules for personal and organizational requirement	3	15 – 17 Mar, 27
42	Supply chain management like inventory management, vendor management, use of data analytics for effective procurement.	3	29 – 31Mar, 27

Certification Course:

S.No.	Name of the course	Remarks
1	CQI - IRCA - UK registered ISO 9001 : 2015 QMS Lead Auditor Training	Duration: 5 days
2	OHSMS 45001:2018 - Lead Auditor Training (CQI-IRCA-UK regd.)	Duration: 5 days
3	Integrated Management System (IMS) : (ISO 9001 QMS,ISO 14001 EMS, OHSMS 45001) & Internal Auditor Training	Duration: 3 days
4	Laboratory Management based on ISO/ IEC 17025 : 2017 Awareness & Internal Auditor Training	Duration: 4 days
5	ISO 9001:2015 QMS-Effective Implementation & Internal Auditor Training	Duration: 4 days
6	Internal Training for AS 9100 Rev D (QMS Requirements for Aviation, Space and Defence Organization)	Duration: 5 days
7	Short term courses: 5S, Six Sigma, Lean, TPM, Poka Yoke, Metrology, Problem Solving, GMP, Daily Work Management, Workshop Practices, etc.	Duration: 3 months
8	Information Security Management System ISO 27001:2022 awareness programme	Duration: 3 days

Profile of Internal Faculty



Er. E Ramakishore, FIE Sr. Faculty & Head I/c

B.E. (Mechanical Engineering) with an M.Tech in Production Engineering, he brings over 37 years of rich experience in the aerospace and automotive industries. He possesses extensive expertise in aero-engine manufacturing, quality assurance, maintenance, repair and overhaul (MRO) of fighter aircraft engines, and high-precision production systems. A proven leader in vendor development and qualification for critical avionics and propulsion systems, he has supported strategic defence programmes including SU-30 aircraft, helicopters, and missile projects. His strong technical background covers maintenance, reliability engineering, and lifecycle management of advanced manufacturing infrastructure, including CNC machining centres, special purpose machines, and environmental testing facilities. He played a key role in the manufacturing of AL-31FP engine components and contributed to technology absorption and indigenisation initiatives. In addition to his technical leadership, he has been actively involved in process optimisation, cost reduction, and quality improvement initiatives aligned with global aerospace standards. He also represented India at the G20Y Summit (2012–13), demonstrating his engagement in international forums and policy-level discussions related to technology and industry development.

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Mr. G Ram Murthy, Officer (Program)

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Functionalities of WRD Division

The Water Resources Development (WRD) Division focuses on enhancing the professional competencies of engineers and technical professionals working in the Irrigation, Agriculture, Water Supply, and Sanitation sectors. The Division aims to strengthen technical capabilities, managerial efficiency, and field-level performance to ensure improved and sustainable service delivery.

Areas of Specialisation:

- Irrigation Systems (Major, Medium, and Minor)
- Agriculture and Watershed Management
- Water Conservation, including Rainwater Harvesting Rural Water Supply and Sanitation
- Modern Surveying Techniques
- Remote Sensing, GIS, Differential GPS, and Mobile 3D Mapping Technologies
- Project and Contract Management
- Induction Training for Newly Recruited Engineers

Capacity Building Focus Areas:

The Division offers training programmes in:

- Integrated Water Resources Management (IWRM)
- Flood Computation and Flood Management
- Dam Safety and Irrigation Systems Management
- "More Crop per Drop" – Efficient Water Use in Agriculture
- Watershed Management and Participatory Irrigation Management (PIM)
- Operation and Maintenance of Hydraulic Gates and Hoists
- Rural Water Supply and Sanitation Systems
- Total Station, GIS, and GPS Applications
- Contract Management in Water Sector Projects

Participants:

Participants include professionals from Water Resources Departments, Irrigation & Command Area Development, PHED, Rural Water Supply & Sanitation (RWS&S), Agriculture Departments, Irrigation Development Corporations, Groundwater Departments, Housing Boards, and various State and Central Government Departments and Public Sector Undertakings. The Division also attracts international participants from Nepal, Bhutan, Ethiopia, and other developing countries.

In-House / Specialised Training Programmes:

- Water Resources Management and Dam Safety
- Flood Management and Micro-Irrigation Systems
- Canal Automation for Irrigation Management
- Participatory Groundwater Management
- Rural Water Supply and Sanitation
- Water Quality Monitoring and Surveillance
- Drinking Water Security and Safety Plans
- Solar Energy Applications for Water Supply and Sanitation
- Mobile 3D Mapping and DGPS Applications
- Project Management in Water Resources
- Training Programmes Using Software Applications
- Design and Analysis of Concrete Gravity Dams
- Canal Automation for Irrigation Projects
- Design and Analysis of Civil Structures
- Planning, Design, and Installation of Flow Measurement Structures
- Crop Water Requirement Analysis
- Drinking Water Sector Management
- SCADA Applications in Drinking Water Systems
- Finite Element Method (FEM) and ANSYS
- EPANET for Water Distribution Network Analysis
- Remote Sensing and GIS Applications
- MS Project and Primavera for Project Management

Additional Programmes & Partnerships:

Groundwater Recharge Techniques and Management under RG Mission for Watershed Management, PMKSY, Government of Madhya Pradesh

Maintenance and Safety of Dam Gates for senior officials of Narmada Hydroelectric Development Corporation

Tailor-made training programmes for State Governments in Water Resources, Drinking Water, and Sanitation sectors

Consultancy Services:

Water Security and Sustainability Planning, Water Audits and Conservation Strategies, Modernisation of Land Records

Commitment:

The WRD Division continues to play a leading role in capacity building, technological advancement, and sustainable water resource management, serving government agencies, public sector organisations, and international stakeholders.



WRD : Schedule of Training Programmes

S. No.	Programme Title	Days	Dates
1	Reservoir Sedimentation estimation using Machine Learning Techniques and Management Strategies	3	20 - 22 Apr 2026
2	Dam Safety Guidelines - Monitoring and Protection Measures and Emergency Action Plan	3	18 - 20 May 2026
3	Automation in Micro Irrigation Systems for improving Irrigation Efficiency	4	08 - 11 June 2026
4	Instrumentation and Seismic Analysis of Dams with Software Applications	3	23 - 25 June 2026
5	Hydrological Observations, Data Collection and Formulation of Flood Forecasting	3	06 - 08 July 2026
6	Assessment of Irrigation Demand and Irrigation Scheduling using Latest Software Applications	3	20 - 22 July 2026
7	Project Management using MS Project and Primavera Software	3	29 - 31 July 2026
8	Contract Management and Arbitration in Engineering Projects	3	05 - 07 Aug 2026
9	Benchmarking Studies of Water Use Efficiency	3	17 - 19 Aug 2026
10	Soil & Water Conservation : Importance and Best Practices	3	01 - 03 Sep 2026
11	Structural Safety of Existing Dams - Evaluation and Impacts	5	21 - 25 Sep 2026
12	LiDAR Technology for effective Irrigation Management	3	06 - 08 Oct 2026
13	Use of AI&ML in Flood Routing, Risk Assessment & Mapping	3	14-16 Oct 2026
14	Hydraulic Gates and Hoists - Design, Erection and Operation & Maintenance including Dismantling	5	26 - 30 Oct 2026
15	Use of Total station & DGPs for Engineering Project	3	03 - 05 Nov 2026
16	Planning, Design, Construction and O&M of Lift Irrigation Schemes	4	17 - 20 Nov 2026
17	Latest Techniques in Community Micro Irrigation System	3	25 - 27 Nov 2026
18	Conjunctive Groundwater Studies & Their Impact in Irrigation Projects	3	01 - 03 Dec 2026
19	Hydro Dynamic Analysis using MIKE including Dam Break Analysis	3	10 - 12 Dec 2026
20	Micro Irrigation Systems Implementation, Fertilizer Management including System Maintenance	3	21 - 23 Dec 2026
21	IoT based Water Distribution and Quality Monitoring System	3	06 - 08 Jan 2027
22	Planning, Design and Implementation of Water Supply Network and Distribution using GIS	4	19 - 22 Jan 2027
23	Design and Optimization of IoT Based Smart Irrigation System	3	03 - 05 Feb 2027
24	Operation & Maintenance of Hydro Mechanical Equipment and Control System	3	15 - 17 Feb 2027
25	Mapping and Modelling coastal Protection zones for sediment transport and Monitoring Seawater Intrusion	4	24 - 26 Feb 2027
26	Four Waters Concept for Sustainable Irrigation Water Management	3	02 - 04 Mar 2027
27	Cloud-Based Water Resources Data collation, Analysis & Decision Making	3	16 - 18 Mar 2027
28	Mapping & Monitoring of Irrigation Projects using RS&GIS Technologies	3	23 - 25 Mar 2027

Certification Course:

S.No.	Name of the course	Remarks
1	Land Surveying and Mapping with GNSS and Web-GIS Tools	Duration: 2 weeks



Profile of Internal Faculty



Mr. M. Raja Sekhar Reddy (Sr. Faculty & Head - WRD)

He is AMIE in Mech. Engg. & M.E in Thermal Engineering (I.C. engines) from ANNA University, Chennai. He Served in AP/ TS, PR Engg. Dept. around 34 Years in Various Capacities from AEE to Chief Engineer. He has rich experience in planning, Designing and execution of water supply projects. He is an expert in organizing international conferences, Trainings in water supply & sanitation sectors. Trained large number of Engineers in water, Sanitation & Rural Development Sector. He is Associated with UNICEF/UNDP/ World bank for development of India Mark - III Hand Pumps, Low cost alternative Technologies for village level Maintenance with UPVC Pipes under Global hand Pump Testing Project in RR Dist. His areas of expertise are in Rural infrastructure development like Rural roads & Bridges under PMGSY Programme, 2 BHK Under WSH Programme & Planning and Execution of R&R Colonies for Submerged Villages under Kashewaram Project, Siddipet District, Telangana State.

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Mr. G. Naresh (Faculty & WRD)

He is M.Tech in Remote Sensing and Geographical Information System from JNTU, Hyderabad, 16 years' experience in Training & Capacity building in Water Resources Development and Management and research activities in National and International Projects. Published technical papers in various National and International conferences and Journals. His areas of interest are Water Supply Network with Software Applications, Advanced Surveying Technologies, Remote Sensing, Geographical Information System and Global Positioning System. Member of Professional bodies ISTE, ISRS, ISGM, IWWA and Member of The Institution of Engineers (India).

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Ms. S A Kavitha, Prog. Officer, I/C

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Project Consultancy

ESCI provides multidisciplinary consultancy services across Engineering and Management disciplines through its team of experienced consultants and domain experts. The services include Third-Party Quality Control/ Assurance, Project Monitoring & Auditing, Detailed Project Reports (DPRs) in Irrigation, Water Resources, Power and Infrastructure, Asset Management, HAZOP Studies, Transportation, HRD, Environmental Studies, ISO & NABL Accreditation, and Recruitment Consultancy. ESCI has successfully executed **150+ consultancy assignments**, including **World Bank-aided and other prestigious projects**, earning strong credibility with government, PSU, and international agencies. Some of the prestigious assignments as mentioned below:

S. No.	Name of Consultancy Service	Sponsoring Authority
1.	3rd Party Quality Control for Civil Works of AP Educational Infrastructure Devp. Corporation	Chief Engineer, APEWIDC
2.	3rd Party Quality Control for Developmental Works of Hyderabad Metropolitan Devp. Authority (HMDA)	Chief Engineer, HMDA, Govt. of TG
3.	3rd Party Quality Control Inspection for Bandlaguda and Pocharam Townships of Telangana Rajiv Swagruha Corporation Limited (TRSCL)	Chief Engineer, TRSCL, Govt. of TG
4.	3rd Party Quality Control for Centrally Procured Items under Mana Ooru Mana Badi - Mana Basti Mana Badi program in Telangana State	Chief Engineer, TSEWIDC
5.	3rd Party Quality Control for the works taken up by Telangana State Medical Services & Infrastructure Development Corporation (TSMSIDC)	Chief Engineer, TSMSIDC
6.	3rd Party Quality Monitoring Agency for Housing for All - AHP Projects under PMAY(U) in Raipur & Durg Clusters of Chhattisgarh State	Chief Executive Officer, SUDA, Chhattisgarh
7.	Preparation of DPRs for the Developmental works sanctioned under CM's Assurance Grants to Greater Warangal Municipal Corporation	Commissioner, GWMC, Govt of T.S.
8.	3rd Party Quality Control for 2BHK Houses in Mahabubnagar, Jogulamba Gadwal and Nirmal Districts	District Collectors of respective Districts
9.	3rd Party Quality Control for the works taken up by the Andhra Pradesh Tribal Welfare Engineering Dept.	Engineer-In-Chief, APTWED
10.	Dindi Lift Irrigation Scheme-Detailed Survey & Preparation of Detailed Project Report including Rachakonda Lift Irrigation Scheme	I&CAD Dept. Govt. of Telangana
11.	Palamuru - Ranga Reddy Lift Irrigation Scheme-Detailed Survey & Preparation of DPR - Jurala Project & Srisailam Project as water Source	I&CAD Dept. Govt. of Telangana
12.	3rd Party Quality Control / Assurance of Civil Works of Indira Sagar Main Canals of Polavaram Project - Package No.20 & Package No.23.	I&CAD Dept. Govt. of AP
13.	3rd Party Inspection Agency for the JJM Works in Chhattisgarh State	JJM-Chhattisgarh
14.	3rd Party Inspection Agency for the JJM Works in Karnataka State	JJM-Karnataka
15.	3rd Party Inspection Agency for the JJM Works in Kerala State	JJM-Kerala
16.	3rd Party Inspection Agency for the JJM Works in Madhya Pradesh State	JJM-Madhya Pradesh
17.	3rd Party Inspection Agency for the JJM Works in Tamil Nadu State	JJM-Tamil Nadu
18.	3rd Party Quality Control for Civil Works of Telangana State Tourism Devp. Corporation Limited.	MD, TSTDC, Govt. of TS
19.	3rd Party Quality Monitoring Agency for Housing for All - AHP Projects under PMAY(U) in Mahbubnagar District	Mission Director, MEPMA, Govt. of TS
20.	3rd Party Quality Control for Civil & CRMP Works, 4th Party of GHMC	SE, QCC, GHMC
21.	3rd Party Quality Control to Construction of Social Welfare Residential School Complexes & Class Rooms in the Districts of AP & Telangana	Secretary, TSWREIS & APSWREIS
22.	3rd Party Quality Control for Civil Works of Telangana State Agricultural Marketing Department	The Director, TSAMD, Govt. of TS
23.	3rd Party Evaluation to Construction of Academic & Administrative Buildings in Krishna University in Krishna District	Vice Chancellor Krishna University
24.	3rd Party Quality Control for Civil Works of AP Samagra Shiksha	The State Project Director, APSS
25.	Conducting inspection and submission of viability reports on the Real Estate Projects under Telangana Real Estate Regulatory Authority	The Secretary, TGRERA
26.	3rd Party Quality Control for the Works of Hyderabad Metropolitan Water Supply & Sewerage Board (HMWS&SB)	Executive Engineers of respective Divisions

Note: We also undertake the consultancy on above areas or any other areas as per client's requirement.

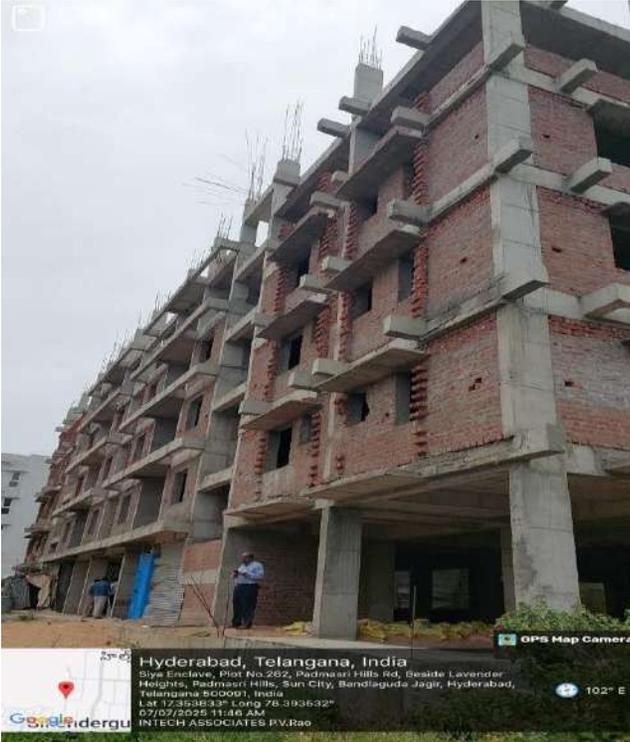


Project Consultancy

TEAM

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Mr. R. B. Anil Kumar , Project Consultant	Ph: 040-66304130, Mob: 9989985464
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TGRERA-SRIVARI BRUNDAVANAM Project



TGEWIDC-Mana Ooru Mana Badi – ZPHS Duddeda



TGMSIDC- Integrated Ayush Hospital at Bhupalapally



TGOILFED – Administrative Building in Narmetta



ESCI established the academic wing, the School of Post Graduate Studies (SPGS), in the year 2008 to bridge the skill-set gaps between corporate expectations and fresh graduates emerging from academic institutions. With this objective, SPGS commenced AICTE-approved PGDM programmes aimed at developing competent, industry-ready professionals equipped to meet contemporary business challenges.

PGDM Programme Objectives

The broad objective of the PGDM programmes is to develop students into competent leaders capable of tackling the challenges of today's global business environment and improving their competencies with knowledge in key functional areas of business.

The two-year Post Graduate Diploma in Management programmes prepare students not only for careers in industry but also equip them with entrepreneurial skills to start their own ventures. Graduates are trained to identify and solve contemporary social and business problems, understand business ethics, and demonstrate ethical values in organizational decision-making. ESCI nurtures the ambitions of students to excel in their chosen areas of interest without compromising on ethics and values.

ESCI-SPGS initially launched a two-year full-time AICTE-approved PGDM-Infrastructure Management programme exclusively for engineers, considering the growing importance of the infrastructure sector. This unique programme nurtures techno-managerial professionals in power, civil, telecom, and transportation sectors.

To synergize with the current business environment, SPGS also started a two-year AICTE-approved PGDM-General Management programme in 2011 for graduates with specializations in Marketing, Human Resource, Finance, Operations, Business Analytics, and Telecommunications. The programmes are also designed to support working professionals who wish to continue their studies without taking a career break.

PG PROGRAMMES

PGDM – General Management

The objective of this programme is to equip graduates with managerial, analytical, and behavioral skills to emerge as competent managers and leaders. Along with core management subjects, students undergo practical training in employability skills, IT skills, soft skills, personality development, and entrepreneurship. A combination of major and minor specializations in Finance, HRM, Marketing, Business Analytics, and Operations Management in the second year enables students to master skills in their chosen areas.

PGDM – Infrastructure Management

Infrastructure Management involves assessing needs,

developing, operating, and maintaining assets that form the backbone of society. This programme provides an integrated approach to infrastructure systems and introduces students to the fundamentals of structuring, financing, and regulating infrastructure projects in Civil, Telecom, Power, and Transportation sectors. PGDM-IM is designed for engineering graduates aspiring to build careers in infrastructure management and techno-managerial domains.

UNDERGRADUATE PROGRAMMES

Bachelor of Business Administration (BBA)

The BBA programme provides strong foundational knowledge in business and management, preparing students for higher education, entrepreneurship, and entry-level managerial roles. Graduates develop confidence, strategic thinking, and practical exposure to successfully implement business ideas and navigate the entrepreneurial landscape.

Bachelor of Computer Applications (BCA)

The BCA programme focuses on developing strong computing and programming skills required in the modern IT industry. It provides a solid foundation in software development, database management, networking, and web technologies. The programme equips students with analytical and problem-solving abilities, preparing them for careers in software development, IT services, and emerging digital technologies. Graduates can also pursue higher studies such as MCA or specialized technology certifications to advance in the IT domain.

B.Tech – Computer Science and Engineering (Artificial Intelligence & Machine Learning)

The B.Tech in Computer Science and Engineering (Artificial Intelligence & Machine Learning) programme is designed to develop highly skilled professionals in advanced computing and intelligent systems. The curriculum focuses on core areas such as programming, data science, artificial intelligence, machine learning, deep learning, data analytics, cloud computing, and emerging digital technologies.

Students gain strong analytical, computational, and problem-solving skills through practical laboratory work, live projects, internships, and industry interaction. The programme prepares graduates to design intelligent solutions, develop smart applications, and contribute to innovations in automation, data-driven decision-making, and digital transformation. Graduates are well-equipped for careers in AI/ML engineering, data science, software development, research, and technology entrepreneurship in the rapidly evolving global technology landscape.

B.Tech – Robotics and Artificial Intelligence

The B.Tech Robotics programme integrates mechanical



School of Post Graduate Studies

engineering, electronics, computer science, and artificial intelligence to develop professionals capable of designing and managing intelligent robotic systems. The curriculum covers automation, robotics design, embedded systems, AI applications, and industrial robotics. With strong laboratory and project-based learning, students are prepared to work in advanced manufacturing, automation industries, research organizations, and emerging technology sectors, fostering innovation and technological leadership.

Value Additions in the Courses

The strength of any academic programme lies in transforming students into industry-ready professionals aligned with corporate expectations and evolving job market demands. ESCI ensures this transformation through a well-designed curriculum and a supportive academic ecosystem.

All programmes are supplemented by field visits, industry interactions, and guest lectures by experienced industry experts, providing practical exposure and real-world insights.

Key Value Additions:

- Exposure to entrepreneurship and innovation training
- Industry-oriented and future-ready curriculum
- Skill development aligned with corporate and industry expectations
- Soft skills, personality development, and leadership training
- Practical learning through projects, internships, and industry engagement

Through these initiatives, ESCI-SPGS continues to nurture competent professionals equipped with knowledge, skills, ethics, and values to contribute effectively to industry and society.

PLACEMENT SUPPORT

Placement assistance is provided by ESCI with consistent placement outcomes, under **Er. D. Murali**, FIE Placement Officer, ESCI



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Mr. Kishan, Marketing Manager

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Dr. K. Ashok, FIE, Principal, SPGS

Dr. K. Ashok, FIE is a distinguished Academician and Researcher currently serving as the Principal at the SPGS, ESCI Hyderabad. He holds Ph.D in Management from Kakatiya University and also Ph.D in Civil Engineering from JNTU Hyderabad. His research is highly regarded for addressing critical infrastructure issues, particularly in urban flood mitigation and landscape ecological risk assessment. Dr. K. Ashok, FIE was honoured ISTE best teacher award in 2014. Throughout his career, he has successfully bridged the gap between academic theory and practical engineering consultancy and is an able Administrator. Published 19 Papers in Journals/Conferences and authored few books.

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Mr. Aliga Raju, Faculty - SPGS

Mr. Aliga Raju is an academician and administrator serving as the Controller of Examinations at SPGS Engineering Staff College of India (ESCI), Hyderabad. He is currently pursuing a Ph.D. at SR University, Warangal. MBA from Nizam College Hyderabad and UGC-NET qualified educator. His areas of specialization include Techno-Management and Marketing. he is actively involved in teaching and academic administration. He also serves as the Chairperson of the Student Grievance Redressal Committee.

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Dr. Sindu Menda, Academic Coordinator

She is an esteemed academician and researcher serving as Asst. Professor at ESCI, Hyderabad. Holding a PhD in Commerce & Management (E-HRM in Banking) from Andhra University- alongside MHRM & MBA—she specializes in AI-HR analytics, employee engagement, attrition studies, and digital HRM evolution. Spanning 8+ years of teaching, research, and innovation, she has produced 15+ publications, co-authored books like "HR & Marketing Analytics," earned patents in HR data security and AI governance, mentored many MBA projects, and garnered UGC-NET/AP-SET qualifications plus the IOT Academic Excellence Award (2023).

Mob: 6281048416



Introduction

Engineering laboratories provide essential hands-on experience, bridging theoretical knowledge with practical applications across various disciplines. The **Mechanical Engineering Laboratory** focuses on material strength, fluid dynamics, thermodynamics, and machine design, allowing students to analyze and test mechanical systems. The **Electrical Engineering Laboratory** enables experiments on power systems, circuit analysis, electromagnetism, and electrical machines, helping students understand energy transmission and automation. The **Civil Engineering Laboratory** covers structural analysis, material testing, geotechnical studies, and surveying, ensuring students

gain practical insights into construction and infrastructure development. The **Electronics & Communication Engineering Laboratory** emphasizes semiconductor devices, signal processing, microcontrollers, and communication networks, fostering innovation in embedded systems and wireless technologies. Lastly, the **Computer Science & Engineering Laboratory** supports programming, artificial intelligence, data science, cybersecurity, and software development, equipping students with computational and problem-solving skills crucial for the digital era. These laboratories collectively enhance technical proficiency, innovation, and research across engineering disciplines

1. Mechanical Engineering Laboratory

The Mechanical Engineering Laboratory has the following working lab apparatuses for demonstration/experimentation:

Hardness Tester (Rockwell, Brinell)	Thermal Conductivity Measurement Apparatus
Strain Measurement Tutor Using Strain Cantilever	Thermal Emissivity Measurement Apparatus
Pendulum Impact Testing Unit (Charpy, Izod) (Free Convection, Vertical Pipe)	Convective Heat Transfer Measurement Apparatus
Apparatus for Study of Whirling of Slender Shafts	Parallel and Counter Flow Heat Exchanger Apparatus
Apparatus for Static and Dynamic Balancing of a Rotating Shaft	Diesel Engine Test Rig with Electric Dynamometer
Flow Measurement by Venturi and Orifice meter	Multi-cylinder Petrol Engine Test Rig
Friction Loss Estimation in Fluid Flow Through Circular Pipes	Multi-stage Centrifugal Pump Test Rig
Kaplan Turbine Test Rig	

Apart from the above, the following models are also available for assisting the comprehension of the students:

Slider Crank Mechanism	Expansion Steam Trap
Differential Gear Assembly	Float Steam Trap
Pelton Turbine	Cut Section of a 4-stroke diesel engine
Francis Turbine	Cut Section of a single-cylinder, 4-stroke petrol engine
Spring-loaded Safety Valve	Carburetor (Solex type)



2. Electrical Engineering Laboratory

The Electrical Engineering Laboratory is equipped with latest hardware-simulators wherein candidates can make different connections and conduct experiments related to the modules described below. The facilities are designed not only to safely withstand inadvertent human errors of the students but also to simulate typical faults to help the candidates get a hands-on experience of the effect of these faults and drill them in developing resolute and correct reactions.

- (a) **Single Phase Transformers** : to conduct a) Polarity test; b) Paralleling test; c) Series connection test; Parallel connection to identify/correct wrong wiring, if any; etc
- (b) **Three Phase Transformers Parallel Connection** : a) Sharing by current by transformers; b) Measuring power drawn by each transformer; c) Connecting energy meter and calibrating; etc
- (c) **Three Phase Transformers** : (Primary Winding, Secondary Winding, Tertiary Winding and Zigzag Winding): a) Star/Star Connection, to measure primary secondary voltages/currents simultaneously; Delta/Star Connection, to measure line current and phase current; c) Star/Delta Connection, to measure circulating current in delta winding (simulate a wrong connection)
- (d) **DC Shunt Motor** : Connect variable speed drive, a) measuring speed; voltage and current; b) measuring armature voltage and current on load; measuring speed on load; d) measuring speed during 'field weakening'; e) determining load-speed characteristics
- (e) **Power Transmission Line Trainer** : a) Assembling the trainer kit; b) Studying Ferranti effect & calculating the charging current; c) Determination of transmission line constants (A, B, C, & D) by (i) knowing component values and (ii) 2-port experimental method; d) Verification of R, L, C component values from the four transmission line parameters (i.e., A, B, C,D) using Pi model; e) Conducting

laboratory load test and calculation/ measurement of regulation, efficiency & power factor; f) Capacitive VAR compensation; g) Identifying symmetric & asymmetric faults

- (f) **AC Motor** : a) DOL starter; b) Star/delta starter; c) Forward / reverse phase sequencing; d) Adjustment of overload relay
- (g) **Measuring Instruments** : a) IR values (M&I) of electrical equipment; b) Winding resistance; c) Checking the BDV of transformer oil

3. NABL Accredited: Civil Engineering Testing Laboratory (CETL)

Civil Engineering Testing Laboratory (CETL), is for supporting quality testing of Civil Engineering Materials. CETL provides services in many fields such as Soil Testing, Sub-Soil investigation, Non- Destructive testing, third party inspection for Quality Control and Quality Assurance. CETL is established in an area of 4000 Sq ft. Laboratory building and is equipped with all the latest equipment for soil, material testing activities. To providing quality services to customers, these test equipment and machinery are duly calibrated and maintained through NABL approved Laboratory and monitored by engineers having vast experience in quality control in many disciplines of work. CETL is having competent workforce having Post Graduates / Graduates / Diploma Engineers in respective fields. Training is provided continuously to employees to enhance competence. All tests are conducted as per applicable National / International Standards. Library of ESCI is having required literature to conduct tests including the latest National / International standards. CETL is recognized by its clients for quality work, services and solution of problems.

(a) The main clients include :

- (i) AP & Telangana I& CAD Dept.
- (ii) AP & Telangana SWREI Society
- (iii) HMWS & SB



(iv) Public Health Engineering Department

The CETL of ESCI is accredited by NABL with certificate number TS-6691 in the following scope.

(b) Material testing :

- (i) Soil Testing
- (ii) Bricks Testing
- (iii) Concrete Testing
- (iv) Aggregates (Coarse and Fine) Testing

Intending to achieve continual improvement and enhancing customer satisfaction, this Laboratory has been implementing ISO 17025:2005 System.

Our Laboratory is one of the laboratories in Hyderabad to meet the testing requirements of several Engineering materials mentioned above under 'one roof'.

4. Computer Science & Engineering Laboratory - IT Lab Infrastructure

A state-of-the-art Advanced IT Laboratory designed to support hands-on training, research, and industry-oriented skill development in emerging technologies.

Core Infrastructure:

- High-performance IBM Servers for enterprise and research applications
- CISCO ASA-5520 Firewall for advanced network security and traffic management
- CISCO 3750 Layer-3 Switch for routing and network segmentation
- CISCO Router 2621 XM for WAN and routing experiments
- Cisco Layer-2 Switch WS-C2950 for LAN configuration and switching practices
- Juniper Security Gateway UTM SRX-240H for unified threat management and cybersecurity training

Advanced & Latest Capabilities:

- Virtualization & Cloud Computing Environment (VMware / Hyper-V based lab setups)
- Cybersecurity & Network Defense Lab for firewall configuration, intrusion detection,

and ethical hacking simulations

- Data Science & Artificial Intelligence Workstations supporting Python, R, ML, and AI frameworks
- Software Development & Programming Lab with latest IDEs, compilers, and version-control tools
- Database Management Systems Lab (SQL, NoSQL) for enterprise data handling
- Networking & System Administration Training with real-time troubleshooting and fault simulation
- IoT & Embedded Systems Support for sensor integration and smart application development
- High-Speed Internet Connectivity with secure access controls
- Smart Classroom Integration for hybrid and technology-enabled learning

Applications & Training Areas:

- Cloud Computing & Virtual Labs
- Artificial Intelligence & Machine Learning
- Data Analytics & Big Data
- Cybersecurity & Ethical Hacking
- Software Engineering & Full-Stack Development
- Network Design, Configuration & Security

5. Electronics & Communication Engineering Laboratory

The Electronics & Communication Engineering Laboratory is designed to provide strong practical exposure in circuit theory, control systems, analog & digital electronics, and communication engineering. The lab enables students and professionals to understand fundamental concepts through hands-on experimentation, signal analysis, and system-level demonstrations, aligned with current industry and academic standards.



Core Experimentation & Training Modules

- **Circuit Theory**
 - RC Network Characteristics - Nvis 6514
 - Maximum Power Transfer Theorem - Nvis 6509C
- **Control Systems**
 - Study of Synchros - Sciencetech 2455
 - AC/DC Position Control Systems - Sciencetech 2306
 - Differential Amplifier Characteristics - Nvis 6522
- **Digital Electronics**
 - J-K Master Slave Flip-Flops & Counters - Nvis 6550
- Communication Engineering (Analog & Digital)
 - Amplitude Modulation & Demodulation - Sciencetech 2201+, 2202
 - Frequency Modulation & Demodulation - Sciencetech 2203
 - A/D & D/A Conversion, Pulse Code Modulation - Sciencetech 2802
 - Digital Modulation Schemes - Sciencetech 2807

Advanced Learning & Lab Capabilities

- Signal Observation & Analysis using CROs and measuring instruments
- Real-Time Circuit Testing & Fault Identification
- Concept-to-Implementation Approach for electronics fundamentals
- Breadboard & Trainer-Based Experiments for easy comprehension
- Integration of Analog, Digital & Control Systems
- Safe, Modular & Student-Friendly Trainer Kits

Training & Application Areas

- Basic & Advanced Electronics
- Analog and Digital Communication Systems
- Control Systems & Instrumentation
- Digital Logic Design
- " Signal Processing Fundamentals
- " Embedded Systems Foundation (Introductory Level)



Infrastructure



70-acre Wi-Fi enabled campus in the serene institutional area of Gachibowli / Cyberabad, surrounded by IT companies and educational institutions.

Academic Facilities: 2 seminar halls (200 & 60 capacity), 8 classrooms in Main Building, 16 classrooms in Kautilya Block, additional classrooms (20-30 capacity).

Library: EBSCO & J-Gate access, 100 periodicals, 8,500+ books and reports.

Dining: 2 dining halls accommodating 200 participants with guest speakers.

Green Campus: 120 kWp grid-interactive solar PV plant + 20 kWp rooftop PV; surplus power exported to DISCOM.

Accommodation: 5 executive hostel blocks + Jubilee Block; AC twin-sharing rooms, solar water heaters, Wi-Fi; capacity for 150 participants (family

accommodation on prior booking).

Centenary Convention Centre

Ground Floor: 800-seat auditorium with Dolby sound; large stage with advanced AV; open-to-sky auditorium (100-150); dining for 500; indoor & outdoor exhibition areas.

First Floor: 2 lecture halls (50 seats each); co-working space for 40.

Second Floor: Lecture halls (100 & 150 seats); co-working/Techno Hub for 180; additional 50-seat halls; open scenic space.

Rooftop: Canopied open area for events and recreation.

Access & Parking: Excellent connectivity; parking for 500+ two-wheelers and 750+ four-wheelers.

Amenities: Centrally air-conditioned (except open-to-sky & rooftop); latest AV systems; high-bandwidth Wi-Fi throughout.

Chanakya Seminar Complex & Information Centre



Class Room & Dining Hall



Kautilya Block & Roof Mounted Solar Photovoltaic



Accommodation



Skill Development Centre

Centenary Convention Centre

Skill Development Centers (3 Nos) will be accommodating 450 people (150 each) for conducting SDPs.



Convention Centre



Open to Sky Auditorium



Inside view of Convention Centre

Ample Parking at Convention Centre



TechnoHub



Exhibition Stalls



Sponsoring Organizations

International

- Chhukha Hydro Power Corpn., Bhutan
- Kholongchhu Hydro Energy Ltd. Bhutan
- Druk Green Power Corporation, Bhutan
- Tala Hydropower Plant, DGPC, Bhutan
- PCAL, Gomtu, Bhutan
- Bhutan Power Corporation Ltd., Bhutan
- Kurichhi Hydro Power Plant, DGPC
- Nepal Electricity Authority, Kathmandu



United Nations

- International Science, Technology and Innovation Centre for South-South Cooperation (ISTIC)
- UNICEF



Government of India



State Government Departments / Universities & Agencies

Organized by region and specific focus area.

Andhra Pradesh : APCRDA, PRED, WRD, GVMC, TWED, SV University, Andhra University

Telangana : AGRI, CDMA, HMWS&SB, RWS&S, TUFIDC, TDWSP, TSIIC, GHMC, PHC, TMDP, TSRTC, I&CAD, TMDC

Tamil Nadu: CMWS&SB, CMDA, CPCL, PR, Dir. of Town Panchayat, TCCL, TWAD Board

Gujarat: GETRI, GETCO, GEMI, GIDC, GSPL, GWS&SB,

Adani Road Transport

Maharashtra: CIDCO, MSPHC, WRD, MAHAGENCO, UICT Jalgaon, VJTI Mumbai

Karnataka : BMRL, BWS&SB, KUFIDC, KRRDA, Power Utilities (Gulbarga)

Kerala GCDA, KWA, College of Engg. Trikaripur

North India : J&K: CCDU | HP: HPSIDC, HPRIDC | Punjab/Haryana: DWS, HPHC

Central India: Chhattisgarh: CSIDC, ECB, CHB, SUDA, WRD | MP: Pollution Control Board

East India : Bihar: WRD | Odisha: CESU, NHM, PHWC, OCPL | West Bengal: ULBs

International

Bhutan: PCAL, BPC, DGPC | **Nepal**: Nepal Electricity Authority

Public Sector Undertakings (PSUs) & Industries (Grouped by sector)

Power

National: NTPC Limited, PGCIL, ONGC, HPCL, BPCL, IOCL, REC (Rural Electrification).

Regional/Other: OTPC (Tripura), Damodar Valley Corpn (DVC), THDC, NEEPCO.

Mining & Natural Resources

Coal India Subsidiaries: BCCL, CCL, CMPDI, ECL, MCL, NCL, SECL, WCL.

Minerals: NMDC Limited, NLC India, Uranium Corporation, Singareni Collieries (SCCL).

Infrastructure & Manufacturing

Aviation/Marine: Airports Authority of India (AAI), Cochin Shipyard.

Heavy Industry: SAIL, HAL, BDL, Heavy Engineering Corpn Ltd, Heavy Water Board.

Research/Logistics: NRSC, IIRS, NEERI, IICT, ECIL.

Private Sector Undertakings

Infrastructure & Real Estate: Adani Enterprises, Aditya Birla, Aparna Constructions, Meenakshi Group, SEW Constructions, Ramky Industries.

Industrial & Cements: Kesoram Cements, Nagarjuna Cement, Orient Cements, Chettinad Cements, B.S. Ispat Ltd.

Tech & Engineering: Honeywell Technology Solutions, Absolute Software, Minematics Solutions, Torrent Power.

Testing & Calibration: * Earth Care Labs (Nagpur)

- Ganga Calibration Services (Hyderabad)
- Perfomics Analytical Labs
- SimSon Life Sciences



Sponsoring Organizations

Universities & Engineering Colleges

IITs/IIITs/NITs: IIIT Basar, MNIT Jaipur, DTU (Delhi).

State Universities: JNTU (Hyd, Kakinada, Anantapur), Osmania University, Andhra University, Jadavpur University, Gauhati University.

Technical Institutes: HBTU Kanpur, VJTI Mumbai, Pondicherry University, Sikkim University.

Categorized List of Engineering Institutions

North India

- **Delhi Technological University (DTU)**, New Delhi
- **Guru Jambheshwar University of Science and Technology**, Hisar, Haryana
- **Harcourt Butler Technical University (HBTU)**, Kanpur, Uttar Pradesh
- **Malaviya National Institute of Technology (MNIT)**, Jaipur, Rajasthan
- **Shri Venkateswara University**, Gajraula, Uttar Pradesh

South India

- **Andhra University**, Visakhapatnam, Andhra Pradesh
- **Basaveshwar Engineering College**, Bagalkot, Karnataka
- **College of Engineering**, Trikaripur, Kerala
- **Dr. B.R. Ambedkar Institute of Technology**, Hyderabad, Telangana
- **GITAM University**, Visakhapatnam, Andhra Pradesh

- **IIIT Basar**, Nirmal, Telangana
- **Institute of Engineering and Technology (IET)**, Lucknow, Uttar Pradesh (*Note: Grouped here if part of a specific Southern-managed chain, otherwise fits in North*)
- **JNTU (Jawaharlal Nehru Technological University)**, Hyderabad, Kakinada, and Anantapur
- **Krishna University**, Machilipatnam, Andhra Pradesh
- **Osmania University**, Hyderabad, Telangana
- **Pondicherry University**, Puducherry
- **Sri Venkateswara (SV) University**, Tirupati, Andhra Pradesh

West & Central India

- **Govt. Engineering College**, Jagdalpur, Chhattisgarh
- **MGM's College of Engineering**, Nanded, Maharashtra
- **University Institute of Chemical Technology (UICT)**, Jalgaon, Maharashtra
- **Veeramata Jijabai Technological Institute (VJTI)**, Mumbai, Maharashtra

East & Northeast India

- **Gauhati University**, Assam
- **Jadavpur University**, Kolkata, West Bengal
- **Sikkim University**, Gangtok, Sikkim
- **Tripura University**, Agartala, Tripura



“ESCI Signs MoU with JNTUH for 4 Year B.Tech Programmes, MoU Exchange between Dr. G Rameshwar Rao, Director ESCI and Prof. T Kishan Kumar Reddy, Vice Chancellor, JNTUH along with ESCI Staff and Senior Officials of JNTUH on 30th Jan 2026”



Director's Profile



Dr. G Rameshwar Rao, FIE

Director-ESCI

Education

B.Tech (Civil Engineering)

M.Tech (Environmental Engineering), JNTU, Hyderabad

Ph.D – Osmania University, Hyderabad

Professional Experience

- Joined **HMWS&SB** in 1981 as **Asst. Engineer / Asst. Executive Engineer**
- Held various positions and elevated to the **Director (Operations), HMWS&SB** (2014)), overseeing Water Supply & Sewerage Systems

Key Contributions

- Led **Krishna Drinking Water Supply (Phases I, II, III) & Godavari Drinking Water Supply Project (Phase I)**.
- Implemented **Water & Sewerage Projects with Environmental Impact Assessments (EIA)** as per CPHEEO, NRCD, MoEF, JNNURM, World Bank, JICA guidelines.
- **Operation & Maintenance** of Transmission Systems

Awards & Recognitions

- **Outstanding Service Recognition** by HMWSSB.
- **Certificate of Appreciation** from **Chief Minister of AP and Telangana** for successful completion of Water Supply Projects.
- **Best Design -Environmental Engineer 2012** from IEI TSC and **Eminent Engineer Award** from IEI, New Delhi

Professional Memberships

- **Fellow** – Institution of Engineers (India), Indian Institution of Technical Arbitrators, Association of Consulting Civil Engineers (India)
- **Member** – American Water Works Association, International Water Association
- **Life Member** – Indian Water Works Association, Indian Concrete Institute, Indian Building Congress, Indian Road Congress, Quality Circle Forum of India, Indian Society for Technical Education, Solar Energy Society of India, Institute of Constitutional & Parliamentary Affairs, Administrative Staff College of India

Publications & Conferences

- Published **60+ papers** in National & International Conferences
- Delivered **Invited Talks** at various National & International Seminars

Association with IEI

- 38+ years of service with **Institution of Engineers (India)**
- **Joint Hon. Secretary, IEI** (2014-2016)
- First **Hon. Secretary, IEI Telangana State Centre** (2016-2018) – Organized **220+ Events**.
- **Chairman, IEI Telangana State Centre**, and secured **Best State Centre Award** (2018-19, 2019-20 & 2020-2021)

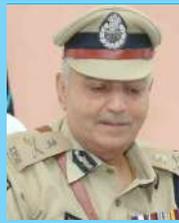
Currently Serving as the Director, Engineering Staff College of India, Since August 2020 leading its strategic Initiatives and programs.



External Faculty



Dr. S. Nagabhushana Rao - Professor & Head, Centre for Transportation Engineering, JNTU. Formerly he was Chief Engineer and Executive Director, APSRTC.



Shri. Sandeep Shandilya IPS- Additional Director General of Railways and Road Safety. Senior IPS officer and Additional Director General of Police



Shri Pradeep Agrawal - Director for NRIDA. Maintenance Management of roads, IT related projects of Pradhan Mantri Gramin Sadaak Yojna and policy.



Dr. Venkata Dilip Kumar P - Faculty Member at Mahindra University, École Centrale School of Engineering.



Dr. Kalyana Rama J S- Assistant Professor, Department of Civil Engineering, Mahindra University.



Dr. Venkata Subba Rao Nuvusetty - Retired Joint Transport Commissioner



Dr. G. Padmaja - Asst. Vice President - Designs & Product Development in M/s Kirby Building Systems Structures India Pvt. Ltd.



Shri Agnimitra Lingampeta - 14+ Years of experience in Project Management, NDT Retrofitting works



Er M Satyanarayana - Superintending Engineer, Roads & Building Department



Dr. Sridhar Mothe - Civil Engineer in construction industry professional with 35 years experience



Dr. Krishna Prasad B S- professional experience in Engineering R&D, Enterprise IT and Digital Engineering



Dr. R. Srinivas Kumar- Associate Professor and Addl. Chief Supt. UCE - OU Exams, Coordinator ME Transportation Engg. Programmes, Osmania University, Hyderabad.



Dr. P. Bhaskar Mohan - Advocate of High Court for the State of Telangana and also acting as Arbitrator and Conciliator



Dr. Digvijay S Pawar- Associate Professor In Civil Engineering & Engineering Science From IITH



Dr. Ramamurthy K - Former Chief Engineer - KSRTC, SME in ITS and ITS advisor to DULT. (Govt of Karnataka)



Dr. A. Mallika- Professor & Head, Department of Civil Engineering, VNR Vignana Jyothi Institute of Engineering and Technology.



Er. Suman Kumar Gorla- 17+ Years of professional experience in Automotive & Enterprise IT



Dr. B Raghuram Kadali - Assistant Professor, Department of Civil Engineering, National Institute of Technology, Warangal.



Er. Ch. Santhosh Kumar- as Quality Manager in M/S Stredant Techno Pvt. Ltd. Hyderabad (Accredited Laboratory)



Dr. Prasanta Kumar Sahu- Associate Professor Department of Civil Engineering, Birla Institute of Technology & Science, Pilani, Hyderabad Campus.



Er. M. Narsing Rao- Deputy Superintendent of Police, Telangana State Integrated Command Control Centre (TSiCCC) Hyderabad.



Dr. Saladi S.V. Subbarao - Associate Professor in the Civil Engineering Department, École Centrale School of Engineering, Mahindra University, Hyderabad



Er. Lakkepura Mallaiah- worked in R&B Department as Superintending Engineer. 13 years in execution & 22 years of experience in Designing of bridges, Roads & Buildings



Dr. Rajesh Krishnan- CEO of ITS Planners and Engineers Private Limited.



External Faculty



Dr. M. Gopal Naik - Sr. Professor, Civil Engineering, Osmania University; PhD IIT Bombay; expert in Water Resources, GIS/RS, urban planning; PI for major DST, UGC & SPARC projects.



Dr. Harish Gupta - UGC-Asst. Professor, Civil Engineering, OU; Ph D IIT Roorkee; postdoc at Academia Sinica & Xiamen University; works on hydrology, climate & disaster management.



Dr. Kulkarni Shashikanth - Professor, Civil Engineering, Osmania University; PhD IIT Bombay; specialist in hydrology, flood modeling, climate change & water systems.



Md. Ziauddin - Former Engineer-in-Chief, Public Health Engineering Dept., Govt. of Telangana; ex-GHMC & Hyderabad Metro Rail; expert in urban infrastructure, metro planning & World Bank projects.



Sreenivasa Reddy Ranabothu - Superintending Engineer, Strategic Nala Development Program, GHMC; specialist in stormwater, wastewater, roads & urban infrastructure.



Dr. Jaya Prakash Vemuri - Assistant Professor, Dept. of Civil Engineering, Ecole Centrale School of Engineering Mahindra University



Dr. G Nagaraju
Chief Executive Officer
Mahindra University



Dr. Jibitesh Kumar Panda - Department of Mechatronics, Manipal Academy of Higher Education, Manipal, Karnataka,



Dr. Dipankar Kakati - Technical Leader- Academics Global Automotive Research Centre, Chennai



Dr. Janardhan - Associate Professor, Department of Mechanical Engineering, Mahindra University,



Mr. Ashish Singh, Joint Director/ Scientist 'E', DISB/ DRDO HQ, New Delhi.



Dr. Anjali Rai, Assistant Professor at ICFAI Business School (IBS), Hyderabad.



Dr. Ddharanikota Ssuayodhan, 20 years of legal expertise across Globally for Prevention of Sexual Harassment- conducted more than 1000 trainings and awareness programs and investigations.



Smt. Padminilvaturi, Communication & Soft skills trainer with around 40 years English at Colleges and Universities in India and abroad. Certified Soft skills Trainer



Wg Cdr. (Dr) A K Srinivas (Retd), World Bank Group as a Sr. Technology Consultant, 40 years experience in teaching Leadership/ e Governance/ GPR/ Change management and other subjects to Civil Servants of SAARC Nations



Dr. T. Ram Prabhu, Joint Director / Scientist E, DRDO, Bangalore. Expertise in areas of Machine Learning, 3D Printing, Funding Proposal Drafting, Materials Engineering



Mr. Krishna Adurthy, 24 years of Expertise in training Six Sigma Green Belt and APICS and CIPM and Management trainer



Dr. Mohd Abdul Nayeem, Associate Professor at the Department of Human Resource Management at IBS Hyderabad



Dr. A. Srihari Krishna
Consultant, Rekhi Foundation for Happiness



Er. LV Rama Rao
Managing Director, Apt Inspection Technologies, Hyderabad



Mr. K. Krishna Murthy, Retired as Sr. manager from Coromandel International Ltd., 50 years expertise technical training all over the country



Mr. Harjeet Singh Kalsi, Retd. Jt. Managing Director, BHEL-GE Gas Turbine Services Ltd. Over 3 decades experience in Design, Marketing, Contract & Project Management, Communication & Public relations, IT, Spares Management etc.



Mr. U N Murthy have more than 40 years rich exposure and experience in Oil & Gas and Minerals in the Public Sector



Mr. P Rangana-theeswar - Dy. Director General. He worked as Secretary to the Board of Mining Examinations (Coal and Metal).



External Faculty



Dr. P Balamadeswaran - Assistant Professor, Department of Mining Engineering, Anna University, Chennai



Dr. H. Sarvothaman - Deputy Director-General. GSI (Retd).



Dr. Karra Ram Chandar - Head -Dept. of Mining Engineering in NITK-Suratkal.



Prof. Uday Kumar - Director of Luleå Railway Research Center, Scientific Director of Research and Innovation (Sustainable Transport)



Dr. V Balaram - former Emeritus Chief Scientist and Head, Geochemistry Division, NGRI, India.



Prof. Srinivasulu Tadisetty - Retired Professor and Dean, FOET from Kakatiya University, Warangal.



Mr. G. Karthik - Executive Officer & Associate Research Professor for Eudoxia Research Centre and Global General Secretary of International Electronic Device Development Association.



Dr. Gyanindra Kumar Pradhan - Professor of Mining Engineering & Dean, Faculty of Engineering & Technology at AKS University, Satna, India.



Dr. N. Darga Kumar - Associate Professor and Head Department of Civil Engineering, JNTUH College of Engineering Manthani in Telangana state.



Mr P Kumar - worked as Executive Director in Radials International Mining Services (Michelin). He has good experience in opencast projects, Implementation of TPM activities, HRD, OTR tyre management



Mr. L. Sudhakar - First Class Manager's Certificate of Competency: A Has a total of 30 years' experience in coal mining in various capacities..



Mr Bhaskarudu Peddakotla, Vice President - Aftermarket Customer Support Innovative Infra & Mining Solutions



Dr S Jayanthu - Professor, Mining Engineering Department of National Institute of Technology, Rourkela,



Dr. K. Srinivas - Professor & Head of Mining Department, Guindy Engg. College, Anna University, TN



Dr. Yamuna Singh - Visiting faculty, Centre for Earth, Ocean & Atmospheric Sciences University of Hyderabad



Mr. A.V. Raghuram - General Manager, The Singareni Collieries Company Limited (Retd)



Mr. H. Veera Swamy - Retd. General Manager from The Singareni Collieries Company Limited (SCCL)



Dr N. Sri Chandrabas - Deputy Manager in GTS-CK Birla Group



Dr. Prashanth Ragam - Assistant Professor, Electronics & Communication Engineering, Kakatiya Institute of Technology and Science (KITS) Warangal (KITSW)



Mr. Prathap Kumar. P - General Manager, Coastal Projects Pvt.Ltd. (Retd)



Mr. Mahesh Kumar. T - Founder, Minematics Solutions



Mr. B.R.V. Susheel Kumar - Vice Chairman & Managing Director, Telangana Mineral Development Corporation Limited



Mr P Sathaiyah, General Manager, The Singareni Collieries Company Limited



Ms. Sirisha Indukuri - She has worked at N R Management Consultants India Pvt Ltd



External Faculty



Er Ranvir Soni, Founder, CEO & MD at Unite Trades & Technologies.



Mr. Jayesh K.S. - Experience in managing complex programs/products and leading teams across global environment.



Mr. Bhaskar Kannoju - CEO & Founder AdeptoGeo Informatics Pvt. Ltd.



Mr. Attem Bhaskar - Vice-Principal and Joint Director at Telangana Academy of Land Information and Management.



Mr. Rahul Pinnamaneni - CEO, Founder, Polygon Geospatial Pvt. Ltd



Mr. Elpula Jaya Kumar- Director of Mines Safety, DGMS (Retired).



Dr. J V Rama Rao - Former Dy. Director General (Geophysics), Geological Survey of India, Associated Principal Consultant, DMTIN



Dr. N Srinivasa Rao - Scientist-C-DMG Indian National Centre for Ocean Information Services (INCOIS)



Mr. Satish Kumar Lanka- Managing Director of Rockwell Quarrying and Crushing Pvt Ltd., Hyderabad



Mr Dinakar Danavada - Mining Software Professional



Dr Kaushik Sarkar - Medical Inspector of Mines cum Certifying Surgeon Directorate General of Mines Safety, Hyderabad.



Dipesh Dipu, Partner, Jenissi Management Consultants



Er. C Swamy Naidu, Former General Manager, The Singareni Collieries Company Limited, Kothagudem. He obtained his M.Tech, from Osmania University and is an expert in Mining Machinery in Opencast Mining Technology.



Shri P Sridhar Naidu, IT leader, and the Founder, Chief Architect of Extreme-Spartan Cognitive Industries Pvt. Ltd., An innovation-driven enterprise specialization. Having collaborated with global leaders like IBM, NVIDIA, Honeywell, Airbus, and BNP Paribas,



Shri K S Yadav, Former Dy. DG (Electrical), DGMS, a key regulatory body for mines in India, head quartered in Dhanbad



Shri Shiva Prasad Vyakarnam 14 years' experience in leadership position as Head of HR at Super Thermal Power Plants at NPTC Limited, a Maharatna Company, Govt of India.



Shri U N Murty worked in HPCL. He has 40 year's rich exposure and experience in the Oil & Gas and Minerals in the Public Sector Enterprises and as Chief Legal Advisor.



Chitty Madhusudana, Former Chief General Manager/Mining/Operation, NLC India Limited, Neyveli. He is expertise in Project Management, Planning & designing mining plans. Safety Management, Team Management



K. Sandeep Reddy served as the Manager Tech Support at Uttam Blastech Private Limited. Presently he a founder of JRA Mining Consultancy Services



Dr. S K Chaurasiya, General Manager (R&D), NMDC Limited, Hyderabad



Shri Sanjib Maitra, Head Technical - Non-Coal Segment, Deepak Mining Solutions Limited, Hyderabad



Dr. Jay Prakash Narayan - Mine Planning, GTS India, Hyderabad. He is proficient to handle latest survey Instrument such as Total Station, DGPS, Multistation, Terrestrial Laser Scanner (TLS), and LiDaR Drone Survey.



Karthik Shankar. S., Head- Digital Technology Solutions, GTS India



Mr. V. Lakshmi Narayana, Dy. Director General (Retired.), DGMS



External Faculty



Mr Manish Sinha,
Executive Director
(Retired.) under Business
Development Group of
Indian Oil Corporation
Limited



Dr M S Venkataramayya,
Director, Vensar
Construction Company
Limited.



Mrs. C B Hema Malini worked in
Bharat Electronics Ltd.(BEL), Hyd.
for 35 years, main focus is in
Quality Control in Electronic
Warfare System for Indian
Defence courses, State Police.



**Mr. PS.S. Hanumantha
Rao** - Additional General
Manager Quality
Assurance in USHA,
International Limited,
Balanagar, Hyderabad



Mr. Ashok Apsingkar,
Former General Manager,
Corporate Quality in
Bharat Dynamics
Limited.



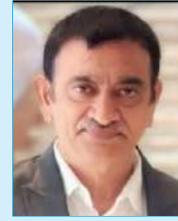
Er. E. Nanda Kishore- Ex General
Manager in NTPC. He has 30
years of wide experience in
Human Resource Management
& Employee Development -
Training Need Analysis, statistical
Quality control, Competency
Mapping, Assessment, etc.



Mr. A Dhanan Jaya Rao -chief
executive officer, Spark
Analytics at Hyderabad.
Experience in various
chemical laboratories in
Hyderabad & Chennai.



**Er Sri. P. Mallikarjun
Rao** Ex General Manager HAL with
37 years experience in
Defence PSU Industries .
Expertise in procurement
Management for Goods and
Services including works.



Accomplished Quality Assurance and
operations leader with 35+ years of cross-
functional experience across Manufacturing
(Electro-Mechanical), Quality Assurance,
IMS, TQM, TPM, Lean Six Sigma, Strategy
Planning, and Vendor Development in light
and heavy engineering industries. Certified
Lead Auditor (ISO-9001) and Lean Six Sigma
Black Belt.



Er Sri. AV Malla Reddy,
Mechanical Engineer having
36 years of experience in
Precision Engineering
Industries & Automobiles
Industries. He is trainer and
Auditor



G. V. R. Murty, Retired General
Manager, MIDHANI (Ministry of
Defence), with extensive techno-
managerial leadership in aerospace
materials and strategic business
operations. Expert in engineering
management, consulting, auditing,
and business development across
high-technology industrial domains.



Dr. Y.S. Kannan, Assistant Professor,
CBIT Gandipet, specializing in Experimental
Fluid Dynamics, Heat Transfer and Thermal
Systems. Expert in Hydraulics, Pneumatics,
Fluid Power Systems, and Thermal Power
Engineering applications.



Dr. E. V. Suryanarayana Retd Addl
GM (Engineering Services),
MIDHANI, with 38 years of industry
experience in instrumentation and
electrical services. Specialist in
project execution, technical training,
and radar signal processing
research across leading public
sector industries.



Dr. V K Sridhar, Deputy General Manager, HBL
Pvt Ltd, Vast experience in the field of
computational modelling and carried out
multiple research projects on various
engineering designs and numerical
simulations. He earned his undergraduate degree
in Mechanical Engineering and masters in
computational engineering from Ruhr University,
Bochum, Germany. He has over 20 years of
experience including ten years in Europe



Simha Srinivasu, Senior Design Engineer &
Expert Mechanical CAD Faculty with over 10
years of industrial experience in advanced
mechanical design. Specialist in 3D
modeling, surface and sheet metal design,
complex assemblies, GD&T, and PLM/PDM
tools using SolidWorks, Creo, UG NX,
AutoCAD, Inventor, and CATIA.



Mr. Rajesh Pershad -
Hyderabad - born
academic with 31+ years
experience in education,
research, and training.



**Dr. Kalyana Chakravarthi
Thirunagari** - Educator & researcher with
20+ years experience in English Language
Teaching, Business Communication, and Life
Skills; international exposure across multiple
countries.



Mr. Sai Ram Palabindela - Cyber
Security professional; Security
Researcher at TSARO Labs, USA;
dual Master's degrees; FEMA-
trained cyber and security
specialist.



Dr. Abhishek Chintagunta -
Educator with 10+ years
experience in data science,
engineering mathematics,
and aerospace; taught at IIT
Kharagpur, VIT Vellore, and
UK universities.



Mr. P. Koushik, Startup enthusiast,
Founder-Emsquare advertising,
branding & consulting firm), Co
Founder-Ulavacharu Biryani house,
passionate about teaching &
travelling. Ex-Strategy consultant -
PricewaterhouseCoopers



Ravikumar KV - Visiting Faculty, Professional
Coach, and Consultant, Three decades of
corporate experience as an operations leader
across multiple organizations in
Manufacturing, Supply Chain, and
Logistics. Currently serving as a Visiting
Faculty at the University College of
Management, JNTU, and the SPGS, ESCI, with
a focus on connecting academic concepts to
real-world organizational practices. I am
also an ICF-ACC certified Leadership Coach
and Transformation Consultant.



Dr. Rahul Gandhi Burra, Assistant
Professor, Operations & Supply
Chain, Project Management,
Operations Research, Quantitative
Techniques & Analytics and
Advanced Excel Department of
Management Studies, NALSAR
University of Law



Dr. Bharat Bhushan Nagar
PhD Energy & Environment;
18 yrs expert in waste
management, PPP, DBOOT/
BOT/DBFOT projects



Ms. Shaily Maloo,
M.Tech (Env. Engg); ESG,
CDP, DJSI, Ecovadis,
climate & sustainability
consultant



External Faculty



Dr. Sathish Suri -
Energy & environmental auditor; Net Zero, carbon footprint, ISO & safety audits



Dr. K B Chari
GIS & Remote Sensing expert; Research Director, GIS Labs



Mr Arvind Kumar Jaiswal -
Structural engineering expert; Chief Consulting Engineer, EON Designers



Ms. Madhulika Choudhary -
"Lady of Lakes"; water conservationist; National Water Award winner



Mr Vikram Kumar-
CEO, Indian Consulting Engineers Pvt. Ltd.; concrete & structural specialist



Dr. Sridhar Mothe
Contracts & claims expert; 35 yrs in infra projects & dispute resolution



Prof. V. Bikshma -
Professor, Civil Engg., Osmania University; 70+ publications



Er. A. Krishna Murthy -
Former Engineer-in-Chief; irrigation & MSW projects expert



Dr. G V Subrahmanyam -
Former Adviser, Ministry of Environment Forest and Climate Change; 39 yrs experience



Ms. Sanchita Jindal -
Former Adviser (Scientist-G), MoEFCC; solid & hazardous waste rules expert



Dr. M.V.S.S. Giridhar-
Professor & Head, Water Resources, JNTU Hyderabad; award-winning water conservationist



Dr. Umamaheswara Rao. B
Former Scientist-D, Central Ground Water Board; hydrogeology expert



Major (Ex) Shiva Kiran -
Founder, SukukiExnora NGO; solid waste management innovator



Prof. P. G. Sastry
Director L&D, Ramky Group; ex-Director NIT Warangal



Mr. Kondala Rao. G -
Urban infrastructure & engineering reforms specialis



Mr. M. N. Thippeswamy
Former Engineer-in-Chief, Bangalore Water Supply and Sewerage Board



Er. P. Narender Kumar-
Power sector expert; generation, transmission & distribution trainer



Dr. A P Natarajan-
Professor Psychology with Madurai Kamraj University. Visiting Professor, Harvard University (U.S) and OU, JNTU, Annamalai University.



Prof. M.R Madhav
Emeritus Professor for JNTUH, IIT Hyderabad, retired from IIT-Kanpur.



Er. T. Prabhakara Rao is Former Engineer-in-Chief RWS & S Department, Govt. of Andhra Pradesh and 40+ years of experience in Planning, Design & Implementation of Rural Water Supply Systems.



Mr. Surendra Kumar-
Former Director & OS, ARDE, DRDO, Pune. Director (Independent), Board of Directors, HAL



Shri S. Umapathi IPS served AP state for 43 years, he joined Police Dept. 1977. During the long service he served as a Sub Divisional Police Officer in 5 sub divisions



Mr. P. Mohan -
Working as Sr.Data Scientist at Tech Mahindra, Hyderabad.



Dr. Ashok Shripati Shinde -
Deputy Regional Transport Officer, Motor Vehicle Department as AIMV, IMV, ARTO, ATC (Maharashtra State)



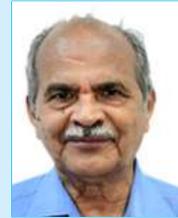
External Faculty



Er. Suman Kumar Gorla - 17+ Years of professional experience in Automotive & Enterprise IT



Dr. Srinivas Puppala - Dy Transport Commissioner, Adilabad Founder & Organiser Road Safety Club General Secretary, Telangana Motor Vehicles Inspectors Association



Er. A Chandra Mohan Rao - His areas of expertise are in Commissioning and O&M of Power Generation



Dr. N. Darga Kumar - Associate Professor and Head Department of Civil Engineering, JNTUH College of Engineering, Telangana State.



Prof. Adepu Ramesh - Professor of Civil Engineering, Civil Engineering Department, VNR VJIE



Dr. S.K. Gugulothu - Assistant Professor in the Dept. of Mechanical Engineering, National Institute of Technology Andhra Pradesh



Dr. Prasad Pokkunuri - Associate Professor, Dept. of Mechanical Engg., École Centrale School of Engineering, Mahindra University



Er. Kankipati Vijaya Bhasker - Qualified as International Commercial Arbitrator of Chartered Institute of Arbitrators, UK and Arbitrator in Indian Roads Congress (IRC)



Dr. Pooja V. Anagolkar - Associate Professor & HOD, Robotics and Automation, Angadi Institute of Technology and Management Belagavi, Karnataka



Dr. Pradeep Reddy - 25 years of professional experience in Contracts, legal issues & disputes related to Company Law, Financial Institutions, IT & Digital Laws



Dr. M. Mukunda Vani - Professor and Head, Department of Chemical Engineering, CBIT, Hyderabad



Er. N. Krishna Rao is 35 years of experience in Planning, Design and Implementation of Dam Gates.



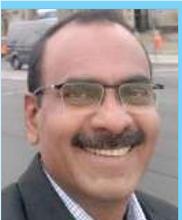
Mr. T. Ram Babu - The Director in Bharat Geosystems Pvt Ltd.



Er. Ranveer Singh Chauhan - Chief Engineer, Uttarakhand Govt (Retd in 2013)



Dr. K. Janakiraman - Head - Technical with M/s. OBO BETTERMANN India.



Er. K. Ramesh is Presently GM, AllTerra Solutions and 20 years of extensive experience in the Surveying, Mapping and GIS Applications.



Ms. Satya Priya - Managing Director of PMP Training Solutions



Dr. P. Shyamsundar has 35 years of experience in Water Resources Development & Mgmt. sector and former DG, Water & Land Mgmt Training & Research Institute, Govt. of Telangana.



Dr. R.N. Sankhua - Currently working as Member, Krishna River Management Board, Ministry of Jal Shakti, Govt of India.



Er. A. Krishna Murthy - Former Engineer-in-Chief, AP Irrigation Dept. Expertise: Water & land management, irrigation projects



Mr. Subbarao - Head of Agronomy for South India operations at Netafim Irrigation India Pvt. Ltd.



Mr. B.S. Rao - as Principal Advisor to RUBICON Water, Australia.



Mr. H. Veeraswamy - General Manager from The Singareni Collieries Company Limited (SCCL) in 2019



Mr. V S Sanjay Kumar - Principal Scientist, Head of the Traffic Engg and Safety Division of National Transportation Planning & Research Centre, R&D Centre, Govt. of Kerala.



Recent Activities

Dr. G Rameshwar Rao, Director ESCI with Dignitaries



Hon'ble Governor of Telangana
Shri Jishnu Dev Varma



Hon'ble Chief Minister of Telangana
Shri A Revanth Reddy



During the Convocation Ceremony -
Hon'ble IT Minister of Telangana
Shri D. Sridhar Babu



In the presence of Hon'ble Chief Minister of Madhya Pradesh,
Dr. Mohan Yadav, MoU was exchanged between the PWD,
Madhya Pradesh, and ESCI, Hyderabad.



Hon'ble Transport Minister of Telangana
Shri Ponnampati Prabhakar



Dr. V. Balakista Reddy, Chairman, Telangana State
Council of Higher Education



Recent Activities



**Shri M.G. Gopal, IAS (Retd.)
Vigilance Commissioner of Telangana**



**Shri M Dana Kishore, IAS, Special Chief Secretary LET&F and
Disaster Management, Govt. of Telangana**



**Shri Naveen Mittal, IAS, Special Chief Secretary,
Energy Department, during the launch of India's
first EV Battery Sustainability Engineer Course on
27 Jan 2026.**



**Shri K. Ashok Reddy, IAS
Managing Director, HMWSSB**



**Governing Council meeting of the Engineering Staff College of India (ESCI),
held on Tuesday, 5th July 2025**





JOB ROLE

ELECTRIC VEHICLE (EV) BATTERY SUSTAINABILITY ENGINEER

Awarding Body
The Institution of Engineers (India)

Training Centre
Engineering Staff College of India (ESCI)
Approved by National Council for Vocational Education and Training (NCVET)
(Ministry of Skill Development & Entrepreneurship)

Programme Overview

- Industry-aligned training focused on EV Battery recycling, sustainability, safety, and circular economy practices.
- Mapped to **NSQF Level 6** and **National Credit Framework (NCrF)**.
- Hands-on practical exposure with mandatory Industry On-the-Job Training (OJT).
- Certification by **Awarding Body The Institution of Engineers (India)**.

Why choose this Programme ?

- High-demand EV & Green Mobility job role.
- Strong Practical Orientation with Industry OJT.
- Certification by The Institution of Engineers (India).
- Career-Ready Sustainability & Employability.

Training Mode & Duration

Total Duration: 600 Hrs
Theory: 150 Hrs **Practical:** 330 Hrs **OJT:** 120 Hrs
Mode: Classroom • Lab • Industry OJT
Credits: 20 Credits (NCrF)

Admission & Career Details

Eligibility Criteria

Education: Completed 4-Year Under Graduate Engineering.

Preferred Branches: Mechanical, Electrical, Electronics, Chemical, Environmental.

Experience: Not Required.

Age: 18–45 Years.

Key Learning Modules

- Battery Types & Technologies
- EV Battery Recycling Fundamentals
- Strong Practical Orientation with Industry OJT
- Battery Safety & Environmental Practices
- Certification by The Institution of Engineers
- Battery Recycling Techniques & Processes
- Hazardous Materials Handling & Disposal
- Post-Recycling Quality Check & Carbon Credit Calculation

100% Internship & Placement Assistance will be provided on successful completion of the Course

Training Fee

Rs. 20,000 per candidate

Includes: Training, Practical, and Mandatory Industry OJT.

Note: Accommodation in nearby payment Guest Houses is at the own cost of candidates.

Training Centre

Engineering Staff College of India (ESCI) Campus
Gachibowli, Hyderabad - 500 032.

CONTACT : 040-66304113 / 9912523285 / 7858873963

CANDIDATE REGISTRATION FORM:

<https://forms.gle/gAd4EAYnbpLdvQ7b9>



ENGINEERING STAFF COLLEGE OF INDIA

Autonomous Organ of the Institution of Engineers (India)

School of Post Graduate Studies



**ADMISSIONS OPEN
for 2026-27**

AICTE APPROVED PROGRAMMES

Engineering Courses

B.Tech	B.Tech
CSE - AI & Machine Learning	Robotics & Artificial Intelligence
Duration: 4 Years	Duration: 4 Years
Association with JNTUH	

Degree Courses

BCA	BBA
Bachelor of Computer Applications	Bachelor of Business Administration
Duration: 3 Years	Duration: 3 Years
Association with Osmania University (OU)	

PG PROGRAMMES

- PGDM - GENERAL MANAGEMENT**
FINANCE | MARKETING | BUSINESS ANALYTICS
HR | OPERATIONS
- PGDM-INFRASTRUCTURE MANAGEMENT**
CIVIL | TRANSPORTATION | POWER
TELECOM | IT

Eligibility: • 10+2 or equivalent examination from a recognised board • Minimum 50% aggregate marks
Mandatory Entrance: • EAMCET • JEE Main • JEE Advanced • Any valid undergraduate entrance test score

Salient Features

- ▶▶ Industry interface and cutting edge curriculum.
- ▶▶ Perfect blend of Management and Technology Education.
- ▶▶ Intensive Industry Internship Programs.
- ▶▶ World Class Infrastructure
- ▶▶ Mentoring from Industry Experts
- ▶▶ CRT Programs
- ▶▶ Highly qualified faculty with rich industry experience
- ▶▶ Education Loan facility from reputed Banks



ELIGIBILITY
PGDM General Management -
Any recognised Bachelor's Degree in Arts, Commerce, Science, Management or any equivalent degree with a minimum 50% marks or equivalent on CGPA grading system

PGDM Infrastructure Management
Any recognised Bachelor's in Engineering / Technology degree with a minimum 50% marks or equivalent in CGPA grading system

QUALIFYING EXAM
Candidate with qualified score in CAT/MAT/ATMA/XAT/CMAT/ ICET or any other state-level Management Aptitude Test. As per AICTE guidelines.

SELECTION PROCESS
Group Discussion, Personal Interview and qualified score in any Management Aptitude Test.

Merit Scholarships

100% Placement Assistance

For Further Details :

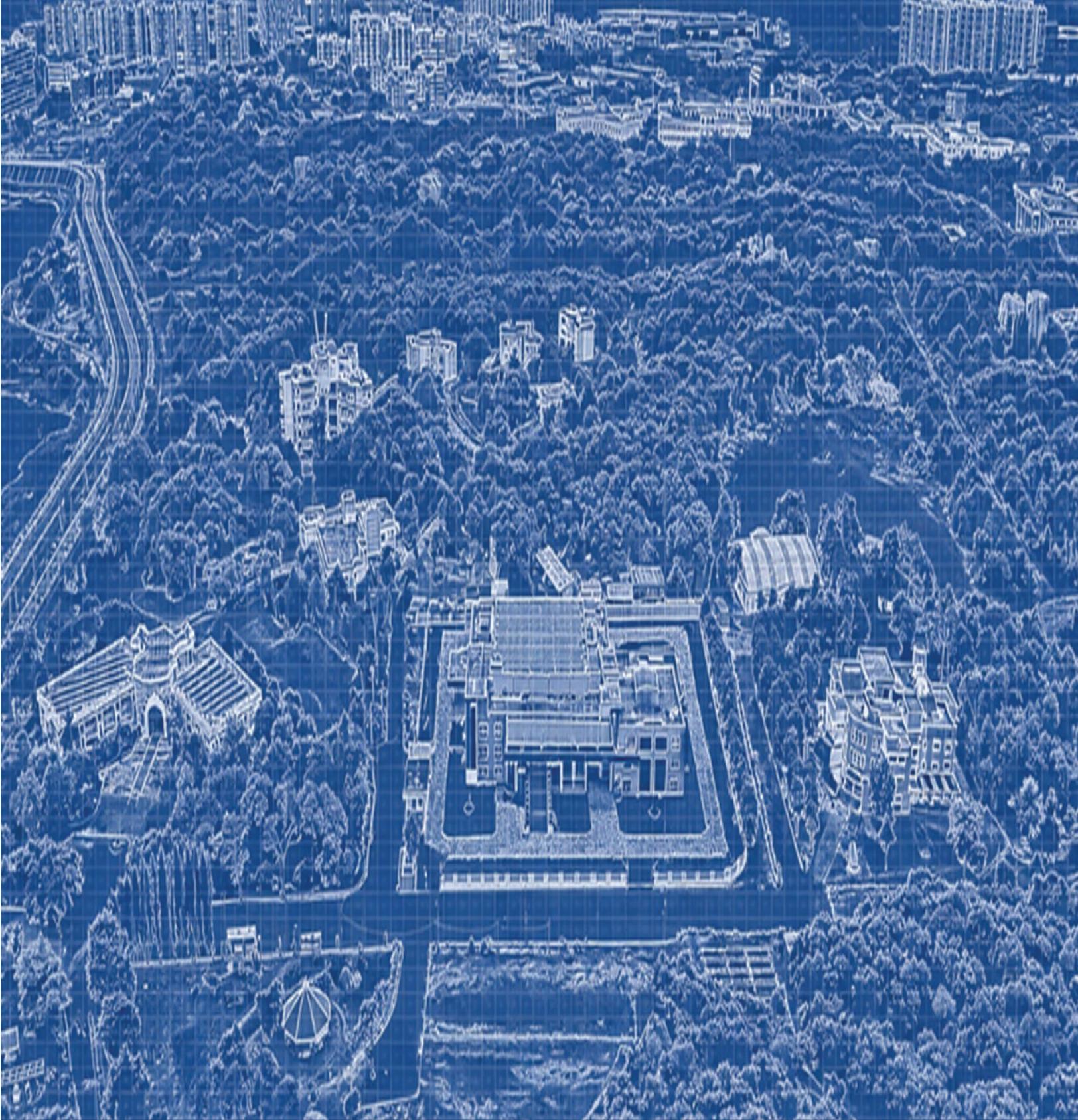
ESCI - SCHOOL OF POST GRADUATE STUDIES

Gachibowli, Hyderabad - 500 032. Telangana

Phone : 040 - 66304177, 66304188, 66304182

Mobile : +91 733 731 9017, 733 731 9016





Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)

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