



ESCI

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DIRECTOR'S DESK



NATIONAL SEMINAR ON SUSTAINABLE WASTE MANAGEMENT THROUGH CIRCULAR ECONOMY - A VISION FOR THE FUTURE

The Engineering Staff College of India (ESCI) is set to host a two-day national seminar in May 2025, focusing on **"Sustainable Waste Management Through Circular Economy and Technological Innovations."** This significant event aims to highlight the growing importance of adopting a circular economy model that not only minimizes waste generation but also promotes the responsible utilization of resources. Initially framed around the core principles of **Reduce, Reuse, and Recycle**, the concept of circular economy has now evolved to include **Refurbishment, Recovery, and Repair**, emphasizing a broader approach toward waste reduction and material efficiency.

The seminar will delve into the critical challenges and opportunities in waste generation, characterization, and community engagement. In today's context, sustainable waste management is no longer limited to basic segregation and disposal. Instead, it requires the integration of cutting-edge technologies such as **IoT, AI, robotics, and data analytics** to optimize waste handling processes, reduce human intervention in hazardous environments, and enhance overall resource recovery. Smart waste management systems now enable real-time tracking of waste collection and processing, ensuring operational efficiency and environmental responsibility.

One of the seminar's focal points will be the advancement of **Waste-to-Energy (WtE)** technologies, which offer sustainable alternatives to land filling. Technologies such as **incineration, gasification, and anaerobic digestion** transform non-recyclable waste into usable energy, contributing to both waste reduction and renewable energy generation. Each process offers unique benefits in terms of scalability, environmental impact, and energy output, making them vital components of a future-ready waste management ecosystem.

By bringing together experts, policymakers, technologists, and industry leaders, this seminar seeks to foster collaborative dialogue and actionable strategies for sustainable waste practices. The integration of circular economy principles with innovative technologies paves the way for a cleaner, more resource-efficient future. Through knowledge sharing and cross-sector engagement, the seminar aims to shape practical solutions that cities and communities can adopt to transform waste into opportunity and promote long-term environmental sustainability.

With best regards,
Dr. G. Rameshwar Rao, FIE



Courtesy call - Meeting with Sri A. Kishan Reddy,
Hon'ble Union Minister of Coal

Events at ESCI

ESCI BOARD OF MANAGEMENT MEETING 14-4-2025



Er. V B Singh, FIE, President IEI, Chairman BOM, Dr. G. Ranganath, FIE, Immediate Past President, (Ex-officio Member), Prof (Dr) M Chowde Gowda, FIE, Member BOM, Er. M Nagaraj, FIE, Vice Chairman GC-ESCI (Ex-officio Member) Maj. Gen Mohan Jeet Singh Syali, VSM (Retd)FIE, Secretary and Director General, (Ex-officio Member) Er Manish Mahendra Kothari, FIE, Member, BOM along with D.G.Rameshwar Rao, Director of ESCI on 14-4-2025. Dr.P.Raja Rao, Dy.Chief, ESCI also seen in picture



Dr.G.Rameshwar Rao, Director of ESCI receiving to Sri VB Singh, President IEI



Sri V B Singh, FIE, President IEI & Chairman BOM addressing



Sri VB Singh, President IEI & Chairman BOM Unveiling the SPGS Brochure at the Board Room in presence of all HoDs.



Sri V B Singh, FIE, President IEI & Chairman BOM reviewing the Division wise progress with HoDs in Board Room. Dr.G.Rameshwar Rao, Director, ESCI



Sri VB Singh, President IEI & Chairman BOM Unveiling the EMD Brochure for the proposed Two Day National Seminar on Sustainable waste management through circular economy and technological innovation at the Board Room in presence of HoDs

Quality in Education is important than Quantity

V.B. Singh, President, The Institution of Engineers (India)

The Engineering Staff College of India (ESCI), established in Hyderabad with the vision of grooming future engineers in line with the evolving trends in engineering education over the last fifty years, has today earned a prestigious reputation across Asia, said Mr. V.B. Singh, President of The Institution of Engineers (India), based in Kolkata. He extended his congratulations to everyone associated with ESCI for their dedication and contributions.

Speaking as the Chief Guest at the Board of Management meeting of the Engineering Staff College of India held on Tuesday, 15 April 2025, Mr. Singh explained the founding purpose of ESCI. Despite competition from multiple states at the time, the then Andhra Pradesh government took a firm decision to establish the institution in Hyderabad and allotted the required land back in 1981. Subsequently, the then President of India, Dr. R. Venkataraman, performed the foundation ceremony.

Over the past 45 years, ESCI has conducted orientation programs on the latest technological advancements in engineering for thousands of engineers working from

Kashmir to Kanyakumari, thus igniting new enthusiasm among them and paving the way for national development.

On this occasion, Mr. V.B. Singh unveiled the SPGS Brochure. He also released a brochure for the upcoming two-day national seminar on "Sustainable Waste Management through Circular Economy and Technological Innovations," to be organized next month by the Environment Division.

Speaking at the meeting, ESCI Director Dr. G. Rameshwar Rao noted that beyond engineering education, ESCI also offers consultancy services to improve the productivity of various government and private offices across the country

Heads of Departments and dignitaries who participated in the meeting included Dr. CS.Krishna Prasad Rao, R. Venkat Reddy, Dr.Chandrakala, Dr. Sagar, D. Sridhar Babu, U. Vidyasagar, K.J. Amarnath, S. Lakshmi Kanth Rao, Dr. Raja Rao, Rajashekar Reddy, Sai Kishore, Anita Agarwal, Syed Angar, Dr. Bharat, Adi Naresh, C.H. Tilak, G. Naresh, Vamshi Krishna, and others.



Events at ESCI

“Skill, Will, and Culture Are Key to Success in Corporate Companies” Shri Kiran Babu, Former Google Executive

Corporate companies evaluate candidates based on their skill, will, and culture during the interview selection process. If young professionals develop these qualities, securing a job becomes easier said Kiran Babu, a former executive of Google and Dell and currently the Founder & CEO of 2X. Encouraging young professionals, he urged them to “Don’t think small... Think big!”

The 3rd Skill Graduation Ceremony was held on Friday, April 4, 2025, at the Engineering Staff College of India (ESCI) organized with the support of Prime Minister Kaushal Vikas Yojana, Skill India, the Ministry of Skill Development, and the National Skill Development Corporation (NSDC), providing Artificial Intelligence and Machine Learning skill development courses for selected college students in Hyderabad.



Dr. R. Hafeez Basha, an IT advisor to the Telangana government stated that the government is eagerly supporting young entrepreneurs in launching startups. He revealed that Hyderabad alone has over 100 incubation centers, which serve as a great platform for youth to grow as industrialists.



IIT Roorkee alumnus and Co-founder Pramod Chintapenta delivered a presentation on emerging transformations in the IT industry. He explained how Artificial Intelligence (AI) is revolutionizing sectors like healthcare, e-commerce, finance, e-governance, agriculture, and transportation. St. Joseph’s College Principal Mohammed Sirajuddin advised young students to value time and always engages them in great thinking.

Dr. G. Rameshwar Rao, Director of Engineering Staff College of India, announced that skill development courses for an additional 4,800 students will be conducted not only in Hyderabad but also in various cities across India.

During the event, 107 students from Vishweshwaraya College of Engineering and Technology and St. Joseph’s PG & Degree College were awarded skill certificates. Several faculty members, including College Chairman Lakshmi Narayana, participated in the event.

The program was organized under the supervision of the Faculty Development Program Cell, led by Head of Department P. Sai Kishore, along with junior faculty members B. Mohan and Sanvesh Kumar.



New engineers to work with dedication and excellence PR & RD Minister Seethakka at the ESCI



A Six-day training program for newly appointed Assistant Executive Engineers working in various circles in GHMC was inaugurated by Smt. Dhanasari Seethakka, Hon'ble Minister for Panchayat Raj & Rural Development Department held at the Engineering Staff College of India on Monday 28.4.2025. She said that a syllabus has been prepared for engineers on GHMC governance, Operational framework, Structure, Regulations, Municipal Budgeting, Financial Management, Urban Infrastructure Development, Urban Planning Development, Personality Development, etc., and all these subjects will be taught by Senior Engineers, High-ranking officials and Retired Professors. Since all AEEs recruited directly from colleges, there is a huge future for all and an opportunity to provide good services to the people.

Ms. Divya Devarajan, CEO of Society for Elimination of Rural Poverty (SERP) who was also present as the chief guest at the meeting said that the role of engineering officials in poverty alleviation is significant. Along with the construction of roads, water tanks, houses for the poor and the building constructions for self-help groups carry's a huge responsibility.

Dr. G. Rameshwar Rao, Director of Engineering Staff College of India said the first batch of newly appointed Assistant Executive Engineers was formally started on 21st April, 2025 and will be continued another 3 to 4 batches. ESCI is very happy for providing training to all the newly recruited engineers. Senior faculties K. Rajashekar Reddy Dr. Chandrakala, Dr. Naresh, Nagamalleshwara Rao and 30 assistant executive engineers of batch 2 participated in the meeting.



Events at ESCI

Civil & Transportation Engineering Division

The Civil & Transportation Engineering Division organized Training and Development Programme on **"Cyclone Resistant Building Construction"** from **21 – 25 April, 2025** with 3 participants attended from Public Works Department, Uttar Pradesh.



standards. The industrial visit enriched the experience by connecting theory with real-world foundry practices, equipping participants with practical skills and technical knowledge for the casting industry.

The participants from HAL (Hindustan Aeronautics Limited) and ICF (Integral Coach Factory) attended and found it highly beneficial.

2) The DPC&M also conducted another CPDP on **"Heat Treatment – Furnaces, Processes and Innovations"** scheduled from 14th – 17th April 2025.

The program provided a solid understanding of heat treatment furnaces, covering their design, selection, and operation. Key topics included temperature control, furnace linings, atmospheres, and instrumentation. Participants explored various heat treatment processes for ferrous and non-ferrous alloys, surface engineering, and schedule design.

The participants from HAL (Hindustan Aeronautics Limited) and ICF (Integral Coach Factory) attended the training program and found it highly beneficial.



3) DPC&M conducted 3rd CPDP on **"Design & Optimization of UAVs for Military Applications"** from 28th April, 2025 to 02nd May, 2025. The program aimed to provide an in-depth Understanding of Unmanned Aerial Vehicles, from foundational principles to advanced industrial applications.

With interactive case studies, data analysis exercises, and project report discussions, the program emphasized hands-on learning and industry relevance.

Engineers from BEL, HAL and ODF attended the program and found it highly beneficial.



Events at ESCI

Environment Management Division



CPDP on "Biomedical Waste Management: Handling, Disposal and Compliance (2016 Rules & Amendments)" conducted from 07-09 April 2025

Course Coverage : Regulations & Compliance: BMW Rules 2016 (Amendments), Generator Responsibilities, Reporting, WHO/NGT Guidelines and best practices, Bio Medical Waste Treatment Technologies, its disposal and closing the disposal cycle, Bio-Medical Waste Management in Emergencies, Health Camps etc., Guidelines and Criteria to set up Common Bio medical Waste Treatment Facility (CBWTF), Audit of Bio medical Waste management, economics consideration, Quality Assurance and Management: Monitoring and evaluating ,Record-keeping and documentation, **Auditing and Compliance, Financial aspects and Case Studies**, Group discussions and technical site visits.

Information & Technology Division



The IT Division has conducted CPDP on **Big Data Analysis for Business decisions** (Online/Offline) (Hands on Practical on MS Power BI) from 28 - 30 April 2025 at ESCI Campus. The Objective of the Program is to Explore Skills on Advanced Tools for Big Data Analysis, to Increase overall Power BI expertise, Master data Cleansing, Data Modeling, and Power BI service and to become a Microsoft Power BI Data Analyst.

Participants attended from Directorate General of Quality Assurance (DGQA), Secunderabad and Ship Building Centre (SBC), Visakhapatnam

Management & Technology Division



The M&T Division has conducted a 5 day Hybrid CPDP on "Vibrations, Balancing, Alignment and Condition, Monitoring of Rotating Equipment" from 21 – 25 April 2025 held at ESCI Campus, Hyderabad. 12 participants (including 5 online) were attended from SCCL Kothagudem, TNPDC Chennai, NLC India Limited, Neyveli, TN, WBPDC Kolkata & QAE(WE)/DGQA, New Delhi.

Expert Speakers: Dr. A. Rajamani, Dr. P. Varuna Reddy delivered the lectures on the related subjects for entire five days

Mining Division



KJ Amarnath, HoD, Mining along with the Guest Faculty and Delegates from the SCCL during the 5-Day training programme on "Comprehensive Course on Drilling & Blasting for Engineers & Managers" held during 07-11 April 2025 at ESCI, Hyderabad

Events at ESCI



The Fire Fighting Demonstration with Fire Department of Government of Telangana for the delegates of The SCCL during 5-Day training programme on "Mine Legislation and Management, Safe Practices in Opencast Mines" held during 21-25 April 2025 at ESCI, Hyderabad

Quality & Productivity Division



Dr. CS Krishna Prasada Rao, Head QP Division met Sri A. Gayatri Prasad, Director HR& Finance of BDL and requested for his support for deputing employees for undergoing training in ESCI

Water Resources Development Division

CPDP on Instrumentation and Seismic Analysis of Gravity Dams with Software Applications from 22 – 24 April, 2025

The objective of the training is providing an opportunity to the Engineers involved in Design and Safety of the Irrigation Dams to enhance their knowledge on effective planning and construction of the dams with advanced software applications, Wireless Structural Health Monitoring System. The Engineers attended from Water Resource Department, Karnataka and Irrigation Department, Kerala. As Part of exposure visit National Geophysical Research Institute visited and learned the importance of Seismicity Monitoring System for Planning, Design of Dam Safety including instrumentation.



Field Visit at NGRI, Uppal, Hyderabad

Hands-On Training sessions on BuildNow online Building & Layout Permission systems for Licensed Technical Personnel (LTPs)



The Director of Town & Country Planning, Govt of Telangana has conducted Hands-On Training sessions on BuildNow online Building & Layout Permission systems for Licensed Technical Personnel (LTPs) on 8th & 9th April, 2025 at the Seminar Hall in the IEI Centenary Convention Centre in 4 batches consisting 100 each. The BuildNow system is designed to streamline and expedite the building and layout approval process, ensuring improved efficiency, transparency and user experience.

MoU Between ESCI and JNTUH for Launch of BBA Program

A Memorandum of Understanding (MoU) was formally signed between the Engineering Staff College of India (ESCI) and Jawaharlal Nehru Technological University Hyderabad (JNTUH) to introduce a Bachelor of Business Administration (BBA) program on 25th April, 2025 in the chambers of VC, JNTUH

The signing ceremony took place in the esteemed presence of Dr. G. Rameshwar Rao, Director, ESCI; Prof. K. Kishen Kumar Reddy, Vice Chancellor, JNTUH and Prof. Venkateshwar Rao, Registrar, JNTUH. Dr.K.Ashok, Principal, School of Post Graduate Studies, P.Sai Kishore, Faculty & Head of FDPC and Dr. Rajeshwari of SPGS also attended on occasion

This MoU marks a significant milestone in fostering academic collaboration and promoting industry-aligned education, strengthening the commitment of both institutions to provide high-quality, future-ready programs.



Events at ESCI

MOU between ESCI & IIT, Rurkee for Hydro Power Simulator Training

Engineering Staff College of India (ESCI) has entered into a Memorandum of Understanding (MoU) with the prestigious Indian Institute of Technology, Roorkee for collaboration in the field of Hydro Power Simulator Training. This MoU is made on 29th April 2025 at IIT Roorkee office and is valid for 3 years.

This MoU aims to facilitate advanced technical training, capacity building, and knowledge exchange in hydroelectric power systems through the use of state-of-the-art simulation technology. It marks a significant step toward strengthening industry-academia partnership in the renewable energy sector.

The MOU was signed in between ESCI and IIT, Rurkee. From ESCI, Er.Sai Kishore, Head-FDP Cell & Nodal Officer-DST Programs & Dr.V.Vidyasagar, Sr.Faculty, Power & Energy Division attended where as from IIT, Rurkee Prof Sanjeev Kumar Prajapati, Head & Associate Professor, Department of Hydro and renewable energy & Prof.Himanshu Jain, Assistant Professor, Department of Hydro and Renewable energy IIT Roorkee were attended.



VIP's Visit to ESCI Premises



Dr.G.Rameshwar Rao, Director ESCI met Sri D.Sridhar Babu, Hon'ble Minister for IT&C and Sri VLVSS Subba Rao, VC of Young India skills University established in the premises of ESCI on 7th April, 2025. Sri Jayesh Ranjan, Prin.Secry also seen in picture

Follow Traffic Rules, Save Precious Lives Telangana DGP Dr. Jitender at the ESCI Convention Centre



Telangana Director General of Police Dr. Jitender, IPS emphasized the importance of following traffic rules to ensure the safety of valuable human lives. Speaking as Chief Guest **“Transforming Hyderabad to Saferabad”** initiative by the Sarvejana Foundation, he stated that traffic signals at 140 junctions in Hyderabad city have been connected with Central Command and Control Centre enabling effective traffic management.

On April 19, 2025, The DGP in presence of various officials has formally launched the programme **Transforming Hyderabad to Saferabad** held at the Engineering Staff College of India Centenary Convention Center

Dr. Gurava Reddy, a veteran Knee specialist and Chairman of the Sarvejana Foundation, mentioned that the foundation was established in 2022 with the vision of raising awareness about road accidents and transforming Hyderabad into a safer city.

The event was attended by Actor Murali Mohan, foundation CEO Janardhan Reddy, Veteran Music director M. M. Keeravani, ESCI Director Dr. G. Rameshwar Rao, Ghazal Srinivas, and others. Prizes were distributed to school children who won quiz competitions conducted in schools.



Events at ESCI

Sports Promote Unity” – ESCI Director Dr. Rameshwar Rao

Victory or defeat in sports is secondary to the efforts of the team on the field, which stay in a sportsperson's memory for a lifetime, said Dr. G. Rameshwar Rao, Director of the Engineering Staff College of India (ESCI).

The prize distribution ceremony of School of Postgraduate Studies held on April 22, 2025 in the Centenary Convention Centre, Dr. Rao emphasized that sports symbolize peace and harmony. He stated that there are no castes or religions in sports but only the common goal of victory, which every athlete fights till the end with a unified spirit. Win or lose, everyone celebrates together, and this is the true essence

of sports.

Around 100 postgraduate diploma students participated in the events, conducted over the past four days under the banner of “KREEDA KOUSHLAM” included cricket, volleyball, badminton, chess, and caroms.

Highlighting the World Earth Day coinciding the same day, Dr. Rameshwara Rao emphasized the need to protect nature, which is rapidly depleting. Future generations don't need wealth, but clean air and water to survive. He urged students to remember this and act to preserve the environment.



Events at ESCI

Dr. K. Ashok, Principal of SPGS stressed that if students aspire to bring pride to the nation through sports, they must excel not only in academics but also in athletics.

Dr. R. Satyanarayana, RERA Chairman and former Commissioner of MA&UD and Dr. Charan Sri Vatsava, Associate professor and Chairman of the Placement Guidance and Advisory Bureau at the University of Hyderabad, attended as Chief Guests. They said that sports

help people stay healthy and happy.

The event was attended by Dr.R.Venkat Reddy, former Principal of SPGS, and faculty members Dr. Rajeshwari, Dr. Sindhu Menda, Alig Raju, Chhaya Padmakumari and other HoDs. The entire program was conducted under the supervision of Chief S. Lakshmi Kanth Rao and Dy.Chief Dr. P. Rajarao.





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