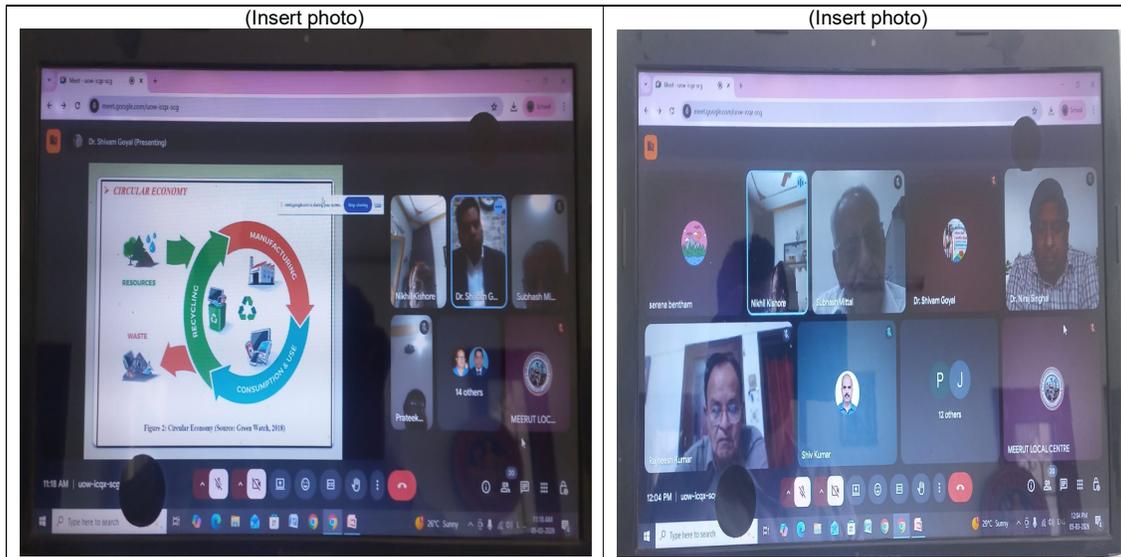


TECHNICAL ACTIVITY CARRIED OUT BY CENTRES / OVERSEAS CHAPTERS

Name of Centre / Overseas Chapter:	Meerut Local Centre		
Title of Activity:	World Engineering Day for Sustainable Development		
Activity under Divisional Board (delete which are not applicable):	Statutory Day		
Date:	05-03-2026	Venue:	Online on Google Meet



Title of photo : Screenshot of the Webinar	Title of photo: Screenshot of the Webinar
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Brief Report:

The Meerut Local Centre conducted a webinar to celebrate the World Engineering Day 2026 on 5th March 2026. The webinar was chaired by Er. S.C. Mittal, Chairman, IE (I) LC Meerut. Honorary Secretary Er. Nikhil Kishore, convened the meet. Two keynote speakers, Dr. Shivam Goyal, Assistant Professor of Mechanical Engineering Department and Er. J.R. Bentham, Assistant Professor Agricultural Engineering both from Sir Chhotu Ram Institute of Engineering and Technology, C.C.S. University Meerut were invited to address on the subject theme.

After welcome address by the Chairman, the Hony. Secretary started proceedings with a brief introduction about the World Engineering Day’s significance for sustainable development and highlighted its role in promoting engineers’ contribution to this cause. He explained that this day, proclaimed by UNESCO in November 2019, during its 40th general conference is celebrated worldwide on 4th March, every year, since 2020. The theme for 2026 is “Smart Engineering for a Sustainable Future through Innovation and Digitalization”. The challenges being faced are, mainly, climate changes, digital transformation for sustainable

infrastructure, food and water security and economic development. The World Engineering Day is statutory day for celebrations and collaborations amongst engineers. World Engineering Day shines as a global spotlight on engineering's power to drive progress and shape our future.

The Hon. Secretary introduced keynote speaker Dr. Shivam Goyal and requested him to start his address.

Dr. Goyal started with a quote of Albert Einstein on sustainable development. His topic for presentation was "Sustainable Production and Consumption linked with circular Economy". He first explained sustainability and its model and briefed about different sustainable development goals of UN, specially goal no. 12, Responsible Consumption and Production. He explained sustainable production and sustainable consumption, along with circular economy concept. Sustainable production and consumption (SPC) were compared with conventional ones (CPC). He gave an account of critical success factors to promote SPC linked with circular economy in Indian Industries context.

He listed about 27 critical success factors which were studied by different researchers.

Dr. Goyal gave an account of practices to achieve the goals of SPC linked with circular economy. He listed 24 such specific practices, which were taken up by different researchers.

Dr. Goyal then came to the most important part of this presentation. He gave an introduction to smart engineering technologies for a sustainable future through innovation and digitalization:

1. Robotic
2. Artificial Intelligence and Machine Learning
3. Internet of things
4. 5G technology
5. Augmented Reality (AR) and virtual Reality (VR)
6. 3D printing and Additive manufacturing
7. Drone technology
8. Automation
9. Advanced Energy storage Technologies promoting Solar and EV technologies.
10. Digitalization

Dr. Goyal explained and gave a brief note on all these technologies and their importance.

This presentation was widely appreciated by members. Some interactions were exchanged between Dr. Goyal and Honorary Secretary Er. Nikhil Kishore to clarify more and satisfy queries.

The Honorary Secretary Er. Nikhil Kishore, invited and introduced, the second speaker Er. J.R. Bentham, Asstt. Professor, Deptt. of Agricultural Engineering, SCRIET, CCSU, Meerut. He addressed with the topic "Smart Engineering for a Sustainable Future through Innovation and Digitalization".

He started with components of Smart Engineering, such, as, advanced technologies integration, Data driven decisions, automation and Intelligent systems and Efficiency & optimization. He told that sustainability can be understood with Environmental, Economic and social sustainabilities. He explained role of innovation in green technologies, Energy efficient systems, Eco friendly materials and Life Cycle management. He highlighted role of Digitalization in IOT, AI, Bigdata, cloud computing and in real time monitoring. He discussed smart cities concept and smart Energy systems. He defined Industry 4.0, with Automation & Robotics, cyber system, 3D printing and sustainable manufacturing. He gave an account of Digital technologies for sustainability such as AI for climate prediction, Block Chain for supply chain, smart Agriculture and precision Irrigation.

He also discussed challenges, future opportunities and role of Engineers. He concluded with suggesting integration of innovation and digitalization which are key to sustainable development. Engineers shall drive the 'future'.

Dr. Niraj Singhal appreciated deliberations and stated that only technological development is not sufficient, we should encourage youngsters for innovations. The purpose of celebrating World Engineering Day is to underline the role of engineers and inspire youngsters for promoting start ups and innovations. Suggestions were also given by Hony. Secretary.

In the end Hony. Secretary presented vote of thanks.