The Institution of Engineers, Malaysia

# WEBINAR TALK ON

# FROM WASTE TO WEALTH:

## HARNESSING THE CIRCULAR ECONOMY FOR A SUSTAINABLE FUTURE

**Organised by:**
**Engineering Education Technical Division, IEM**

**BEM Approved CPD: 2** **Ref no: IEM25/HQ/161/T (w))**

## SPEAKER:

## DR. RAVI KUMAR SHARMA


20 MAY 2025, TUESDAY

2.30PM - 4.30PM

ZOOM PLATFORM

## REGISTRATION

**IEM STUDENT: FOC**
**IEM MEMBER: RM15**
**NON IEM MEMBER: RM70**

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# SYNOPSIS

In a world grappling with resource scarcity, environmental degradation, and mounting waste, the circular economy offers a powerful solution—a transformative approach that reimagines how we design, use, and reuse resources. Through real-world examples, innovative strategies, and emerging technologies, this session will illustrate how waste can be turned into wealth by designing products for longevity, embracing recycling and reuse, and creating closed-loop systems. Attendees will gain insights into practical steps they can take to drive sustainability in their own spheres of influence and help build a resilient, future-ready economy. This session will focus on the utilization of waste materials for different uses, particularly solar energy storage.

# SPEAKER'S PROFILE

**Dr R K Sharma** is a Professor in Department of Mechanical Engineering, and Director-International Collaborations in Manipal University Jaipur, India. He served this institute as Director-Directorate of Entrepreneurship Cell during August 2020-May 2023 and currently heading the Department of Mechanical Engineering. He earned his Ph.D. in Thermal Engineering from the University of Malaya, Malaysia and has worked in various reputed Indian and foreign universities. He has published more than 80 research articles in international journals of repute and presented his research work in many international conferences in India and abroad. He has also written 7 book chapters and has edited four books and reviewer of many international journals. He has also delivered numerous invited/keynote speeches in FDP/STTP/Workshop and conferences. His current area of research is renewable energy and thermal energy storage, in particular solar energy. His primary research is focused on the development of phase change materials or rapid heat transfer by enhancing their thermal conductivity. Dr. Sharma has supervised 05 PhD successfully and currently supervising 03 PhDs. He is also working on the development of waste carbonized materials for energy storage purpose fulfilling the sustainable development goals and circular economy. He has been listed among top 2% scientist across the world as per the list released by the Standford University in the field of Energy.