



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU**  
Autonomous Institute, Affiliated to VTU  
**Department of Chemical Engineering**

1. **Name of the Department:** Chemical Engineering
2. **Name of the Activity:** Guest Lecture Series-116
3. **Date, Time, Venue of the Activity:**

**Date:** 13<sup>th</sup> April, 2026, Monday

**Time:** 12:10 noon – 1:30 pm

**Venue:** Room 3002, Third floor, PG Block, Department of Chemical Engineering, BMSCE.

4. **Brief summary of the Event:**

Dr. Chetan A. Nayak, Professor and Head of the Department of Chemical Engineering, formally welcomed the speaker, Dr. Shaswat Srivastava. Dr. Srivastava completed his B.Tech in Chemical Engineering from IET, Lucknow (2015–2019), and subsequently earned his M.Tech (Research) and Ph.D. from the Department of Chemical Engineering at IISc Bangalore. He is currently associated with Professor Sanjeev Kumar's Interfacial and Colloidal Phenomena Lab in the Department of Chemical Engineering at IISc Bangalore.

Dr. Shashwat Srivastava focused on presenting a structured perspective on research methodology and its practical implementation in engineering. In a lucid form he explained "Lift Cells" approach in Lead Redox Flow Batteries. He discussed and illustrated the concepts. The approach involved the use of Lift-Cell architecture to facilitate self-mixing of the electrolyte through natural convection. The concept was derived from Airlift Reactors in Chemical engineering, demonstrating the application of existing engineering systems to new research problems. A brief overview on supercapacitors was presented regarding the rapid charge and discharge capability, high power density and long operational life, though with lower energy storage compare to batteries.

The talk clarified the difference between supercapacitors and redox flow batteries and their applications. The lecture helped students understand the building of sustainable energy storage technologies using advanced concepts. The speaker answered the questions, keeping the session interactive and encouraging the students to explore current research trends in the field. Overall, the lecture was beneficial, motivating many students to actively pursue research in energy, sustainability and research.

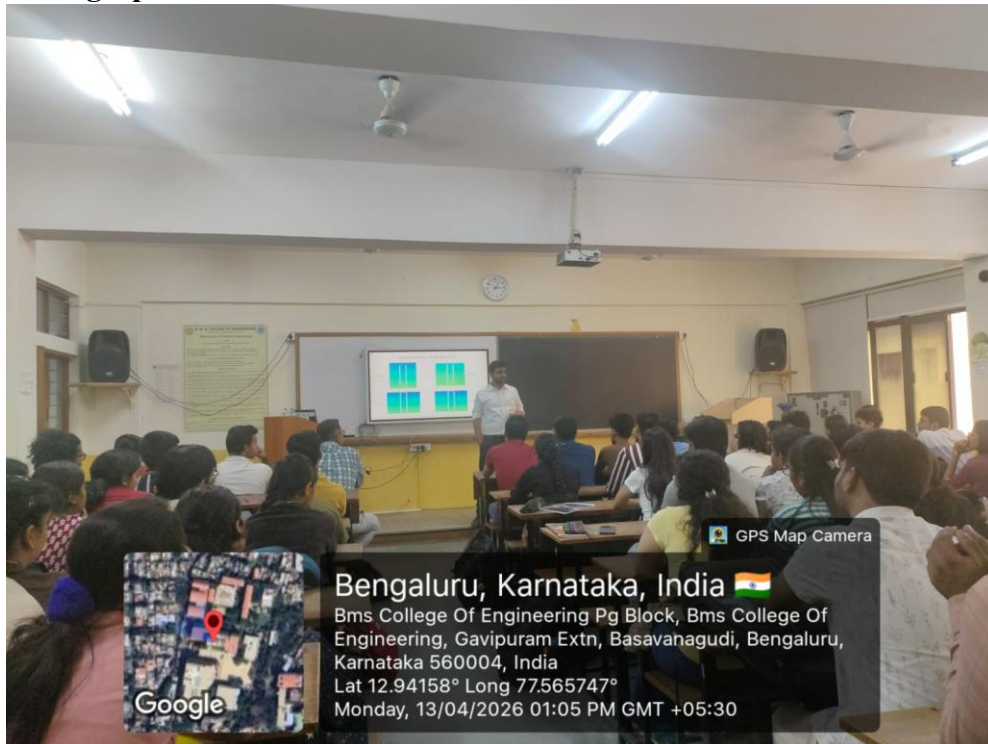
The lecture was well attended by students from first, second and third year of the department



# B.M.S. COLLEGE OF ENGINEERING, BENGALURU

Autonomous Institute, Affiliated to VTU  
Department of Chemical Engineering

## 5. Photographs





**B.M.S. COLLEGE OF ENGINEERING, BENGALURU**  
Autonomous Institute, Affiliated to VTU  
**Department of Chemical Engineering**





# B.M.S. COLLEGE OF ENGINEERING, BENGALURU

Autonomous Institute, Affiliated to VTU

Department of Chemical Engineering

**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
**DEPARTMENT OF CHEMICAL ENGINEERING**

*Accredited under Tier-I of Washington Accord*



**PRESENTS**

**GUEST LECTURE SERIES: 116**

**BY**

**Dr. Shaswat Srivastava**  
Post graduate Researcher  
Indian Institute of Science, Bengaluru

**TOPIC**

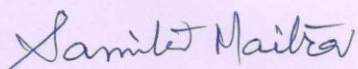
***“Standing on the shoulders of gaints- from  
inspiration to implementation”***

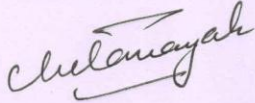
**Day & Date: Monday, 13<sup>th</sup> April 2026**

**Time: 12:10- 1:30 pm**

**VENUE: CR 3001 (PG Block, 3<sup>rd</sup> Floor)**

**For all students & Faculty**

  
**Seminar Coordinator**  
**Dr. Samita Maitra**

  
**Head of the Department**  
**Dr. Chetan A Nayak**

**Dr. CHETAN A. NAYAK**  
Professor & Head of the Dept.  
Department of Chemical Engineering  
B.M.S. COLLEGE OF ENGINEERING  
BENGALURU - 560 019