

Newsletter for June 2026
Department of Mechanical Engineering
Dayananda Sagar University
Bengaluru-562112



Dr. Jerrin Joy Varughese

Dr. Jerrin Joy Varughese, **Assistant Professor Department of Mechanical Engineering** served as a resource person at the Six-Day Faculty Development Programme on "Material Science in the Era of AI and Recent Trends" organized by the Department of Mechanical Engineering, Sreepathy Institute of Management and Technology, Palakkad, on 27 June 2026. He delivered an expert session titled "Ultrasonication Assisted Exfoliation of Two-Dimensional Nanomaterials: Characterization and Predictive Modelling."



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INSTITUTE OF MANAGEMENT AND TECHNOLOGY

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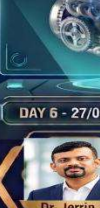
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DEPARTMENT OF MECHANICAL ENGINEERING

SIX DAYS FACULTY DEVELOPMENT PROGRAMME ON

MATERIAL SCIENCE

IN THE ERA OF AI AND RECENT TRENDS


DAY 6 - 27/06/2026 | MODE: ONLINE



Dr. Jerrin Joy Varughese



Dr. Lince Mathew Thomas

DAY 6

10AM-12PM

SESSION 1:

Bioplastics: Science, Technology, and Innovation for a Sustainable Future

Dr. Lince Mathew Thomas

AFFILIATION: Amity BPC Products

Focus Topics



Bioplastic Innovations

2PM-4PM

SESSION 2:

Ultrasonication Assisted Exfoliation of Two-Dimensional Nanomaterials: Characterization and Predictive Modelling

Dr. Jerrin Joy Varughese

AFFILIATION: Dayananda Sagar University

2D Nanomaterials Modelling

Expert Sessions Speakers

Holistic Faculty Development

E Certificate for all Participants

★ Note: All sessions include interactive discussions, Q&A, and hands-on insights.

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Dr. Jerrin Joy Varughese
Assistant Professor
Department of Mechanical Engineering

Dr. Jerrin Joy Varughese successfully completed a Six-Day Faculty Development Programme on "Human-Centered AI in Higher Education: Leveraging Large Language Models for Innovation, Teaching Excellence & Industry Alignment" organized by the Departments of Computer Science & Engineering, Artificial Intelligence & Machine Learning, and Master of Computer Applications, Vidya Academy of Science and Technology (VAST), Thrissur, in collaboration with Tata Consultancy Services (TCS) from 8-13 June 2026.





Dr. Mridusmita Roy Choudhury

Dr. Mridusmita Roy Choudhury, Assistant Professor, Mechanical Engineering, received , **Certificate of Appreciation** from Sreepathy Institute of Management and Technology, Kerala, for serving as a **Resource Person** and delivering an expert lecture on "**Green Composites – An Overview**" during the Six-Day Faculty Development Programme on **Material Science in the Era of AI and Recent Trends (2026)**.



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DEPARTMENT OF MECHANICAL ENGINEERING
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**SIX DAYS FACULTY DEVELOPMENT PROGRAMME ON
MATERIAL SCIENCE
IN THE ERA OF AI AND
RECENT TRENDS**

DAY 5 - 26/06/2026 | MODE: ONLINE

DAY 5

SESSION 1: 10AM-12PM
Material Characterization Using
Advanced Characterization
Techniques: Principles and Insights
Manu S Mohan, Microlab Testing

SESSION 2: 2PM-4PM
Green composites
-an overview
Dr. Mridusmita Roy Choudhury,
Dayananda Sagar University

Focus Topics
Advanced
Characterization
Nanotechnology
Applications

Expert Sessions
Speakers | Holistic Faculty
Development | E-Certificate
for all Participants

★ **Note:** All sessions include interactive discussions, Q&A, and hands-on insights.



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CERTIFICATE OF APPRECIATION

This certificate is proudly presented to

Dr. Mridusmita Roy Choudhury
Assistant Professor, Dayananda Sagar University

in recognition of his valuable contribution as a **Resource Person** for the **Six-Day Faculty Development Program (FDP)** on "**Material Science in the Era of AI and Recent Trends**", organized by the **Department Mechanical Engineering, Sreepathy Institute of Management and Technology, Palakkad, Kerala**, held from **22nd June 2026 to 27th June 2026**.

We sincerely appreciate his insightful session on "**Green composites -an overview**" delivered on **26th June 2026**, which greatly enriched the learning experience of the participants.


HOD, ME


Dr. S. P. Subramanian
PRINCIPAL

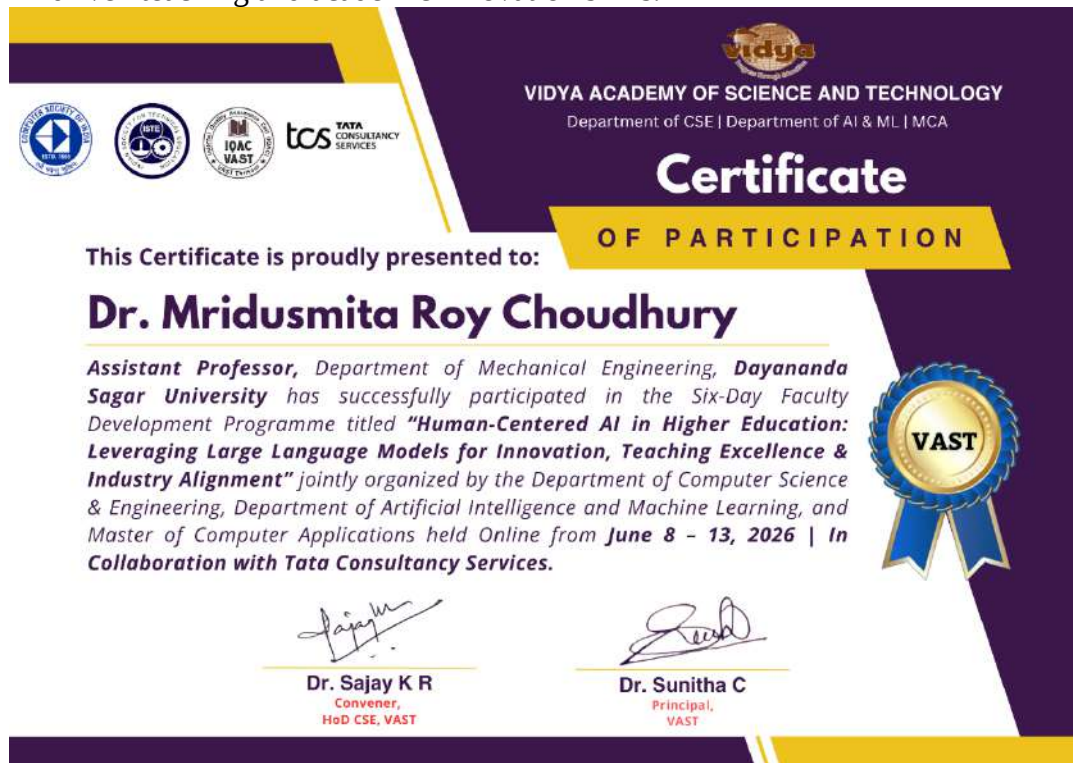
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Sreepathy Institute of Management
and Technology, Vavancoor-679 533

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Dr. Mridusmita Roy Choudhury

Dr. Mridusmita Roy Choudhury, Assistant Professor, Mechanical Engineering completed a six-day Faculty Development Programme on "**Human-Centered AI in Higher Education: Leveraging Large Language Models for Innovation, Teaching Excellence & Industry Alignment**," organized by Vidya Academy of Science and Technology in collaboration with Tata Consultancy Services, enhancing AI-driven teaching and academic innovation skills.





Dr. Rajeev Kumar Gupta

Dr. Rajeev Kumar Gupta, Assistant Professor, Mechanical Engineering completed a six-day Faculty Development Programme on "**Human-Centered AI in Higher Education: Leveraging Large Language Models for Innovation, Teaching Excellence & Industry Alignment**," organized by Vidya Academy of Science and Technology in collaboration with Tata Consultancy Services, enhancing AI-driven teaching and academic innovation skills.





Dr. Naseem Khayum

Dr. Naseem Khayum, Assistant Professor, Department of Mechanical Engineering has published a research article titled “*Experimental analysis of combustion dynamics in an NH₃-biodiesel dual fuel diesel engine under varying ammonia flow rates*” in the journal ***Cleaner Engineering and Technology*** (Elsevier), a **Q1-indexed international journal with an impact factor of 7.3**.



Cleaner Engineering and Technology

Volume 33, August 2026, 101251



Experimental analysis of combustion dynamics in an NH₃-biodiesel dual fuel diesel engine under varying ammonia flow rates

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^b Department of Electrical Engineering, College of Engineering, King Khalid University, Abha, Saudi Arabia

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Dr. Naseem Khayum

Academic Outreach activity

Dr. Naseem Khayum, from the Department of Mechanical Engineering, successfully visited the campuses of IIT Bhubaneswar, IIIT Bhubaneswar, and NIT Rourkela, Odisha, from 03/06/2026 to 05/06/2026 as part of Dayananda Sagar University's strategic initiative towards AI-first development.

The key outcomes of the visit are as follows:

1. NIT Rourkela expressed interest in subscription-based engagement and collaboration with DSU.
2. IIT Bhubaneswar showed interest in exploring a five-year subscription model for the DGX NVIDIA architecture lab facility, after visiting the DSU campus.
3. IIIT Bhubaneswar expressed interest in research collaboration and academic partnership with DSU.
4. All three institutions showed a positive response towards possible research collaboration, faculty interaction, joint academic activities, and future MoU-based initiatives.

Overall, the visit was highly productive and aligned with DSU's vision of building a strong AI-driven academic and research ecosystem. This initiative will further strengthen DSU's visibility and collaboration with premier national institutions.



NIT Rourkela



IIT Bhubaneswar



Mr. Karthik S B

PRADARSHINI 2026 – Capstone Project Exhibition

The Department of Mechanical Engineering, School of Engineering, Dayananda Sagar University successfully organized PRADARSHINI 2026 – Capstone Project Exhibition on 13th June 2026 under the Bosch Higher Education

Program – B.Tech Mechanical Engineering (First Batch). The exhibition showcased the innovative project works developed by the final-year Bosch Higher Education Program students as part of their Capstone Project Phase-II.

The event was graced by Dr. Uday Kumar Reddy K R, Dean, School of Engineering, Dr. Saravana Bavan D, Chairperson, Department of Mechanical Engineering, and Dr. Vinayak B Hemadri, Professor, Department of Mechanical Engineering. The support and presence of Dr. Shashi Kumar, Associate Professor, Jain (Deemed-to-be)

University, Bengaluru, as the External Examiner, contributed to the successful evaluation and completion of the event. The event was organized under the coordinatorship of Prof. Karthik S B, Department of Mechanical Engineering. We sincerely thank Dr. Uday Kumar Reddy K R, Dean, School of Engineering, for accepting our invitation despite his busy schedule and for his valuable encouragement and support to the students of the Bosch Higher Education Program.



PRADARSHINI 2026 – Celebrating innovation, teamwork and engineering excellence



Prof. Abhishek M

7th On the Job Training (OJT) Program for M/s Strides Pharma Science Ltd.

Prof. Abhishek M, Assistant Professor, Department of Mechanical Engineering along with Dr. Seema Tharannum, organised a 30-day On-the-Job Training (OJT) Programme for a group of 23 trainees from Strides Pharma Science Ltd., Bengaluru at the School of Engineering, Dayananda Sagar University, Harohalli Campus. The training aimed to bridge the gap between academic knowledge and industrial practice by equipping trainees with practical skills, technical understanding, and professional competencies required in the pharmaceutical industry.

