CHIEF PATRON

Sampoojya Swami Vinayamritananda Puri

Administrative Director Amrita Vishwa Vidyapeetham, Chennai

PATRONS

Dr. Sasangan Ramanathan

Dean, School of Engineering Amrita Vishwa Vidyapeetham

Shri I. B Manikantan

Campus Director Amrita Vishwa Vidyapeetham, Chennai

Prof. V Jayakumar

Principal Amrita Vishwa Vidyapeetham, Chennai

COORDINATORS

Dr. Khushbu Dash — Coordinator

Department of Science and Humanities (Chemistry)

Dr. Madhulika Srivastava — Co-Coordinator

Department of Mechanical Engineering

TARGET PARTICIPANTS

Faculty members, research scholars and PG scholars of AICTE-approved institutions, and industry personnel.

CERTIFICATION

An online test will be conducted at the end of the programme. Certificates will be issued to participants with at least 80% attendance who score at least 70% in the test.

AMRITA VISHWA VIDYAPEETHAM CHENNAI CAMPUS

NAAC A++ ACCREDITED | nirf GOVT. OF INDIA 8TH RANKED UNIVERSITY IN INDIA 2025 | CATEGORY 1 GRADED AUTONOMY UGC, GOVT. OF INDIA

No.1 IN INDIA Times Higher Education Impact Ranking 2025 | No.1 IN INDIA THE WORLD UNIVERSITY RANKINGS 2020

SELECTION

Only 200 seats are available. Participants are selected from among the applicants to ensure representation from as many institutions across the country as possible.

CERTIFICATION

An online test will be conducted at the end of the programme. Certificates will be issued to participants with at least 80% attendance who score at least 70% in the test.

HOW TO APPLY

1. Sign up as a participant at **atalacademy.aicte.gov.in/signup** and log in.
2. FDP menu → Type: **Online;** Month: **December**; Thrust Area: **Sustainability Engineering.**
3. Find **Amrita Vishwa Vidyapeetham, Chennai** Campus (Application No. **1786338555)** and click (+).
4. Upload the signed **NOC** (PDF, max 2 MB). NOC format: **tinyurl.com/3vamr9nk**
5. Click **Confirm**. Selected applicants are informed by email and must confirm by return email.

IMPORTANT DATES

Last date to Apply	Nov. 30th, 2026
Intimation of selection	Dec. 2nd, 2026
Confirmation of participation	Dec. 3rd, 2026
Programme	7th–12th Dec 2026

FEES & TIMINGS

No charge for registration, course or certification.
Mon–Fri (7–11 Dec): 6:00 PM – 9:00 PM IST (Day 1 until 9:30 PM) Sat (12 Dec): 2:00 PM – 8:00 PM IST

CONTACT

Dr. Khushbu Dash:
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AI FOR SUSTAINABLE MATERIALS

AI-DRIVEN SUSTAINABLE MATERIALS DISCOVERY & DEVELOPMENT FOR COST-EFFECTIVE INNOVATION

7th to 12th December 2026

Organized by

DEPARTMENT OF SCIENCE AND HUMANITIES (CHEMISTRY) & DEPARTMENT OF MECHANICAL ENGINEERING

Amrita Vishwa Vidyapeetham,
337/1 A, Vallal RCK Nagar, SH 50AVengal, Tamil Nadu 601103
www.amrita.edu

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ABOUT
AMRITA VISHWA VIDYAPEETHAM

Amrita Vishwa Vidyapeetham is a multi-disciplinary, research-intensive private university with over 31,000 students and more than 2,150 faculty members. Accredited with the highest 'A++' grade by NAAC, it offers 300+ undergraduate, postgraduate and doctoral programmes in fields ranging from Engineering, Management and Medical Sciences to Law, Arts and Social Sciences. It has ten campuses, at Amaravati, Amritapuri, Bengaluru, Chennai, Coimbatore, Kochi, Mysuru, Nagercoil, NCR Delhi (Faridabad) and Haridwar, spanning over 1,200 acres and 10 million sq. ft of built-up area. Amrita is ranked 8th in NIRF 2025, with the Amrita School of Medicine, Kochi ranked 9th in the Medicine category, and 37th globally in the THE Sustainability Impact Ratings 2026. One of India's fastest-growing universities, it has established 180+ collaborations with top-500 world-ranked universities within just 18 years. Its vision is inspired by its founding Chancellor, Sri Mata Amritanandamayi Devi (Amma), a world-renowned humanitarian leader.

AMRITA SCHOOL OF ENGINEERING, CHENNAI

Amrita School of Engineering (ASE), Chennai is located at Vengal on State Highway SH 50A, about 40 km from Chennai. Spread over 13.55 acres with a built-up area of 24,956 sq. m, the campus is close to India's major manufacturing and automobile hubs, the 'Detroit of Asia', offering students strong industry exposure alongside rigorous academics.

DEPARTMENT OF SCIENCE AND HUMANITIES

The Department of Science and Humanities forms the academic backbone of all engineering and research programmes at Amrita Vishwa Vidyapeetham, Chennai Campus, shaping students' analytical thinking, scientific understanding and communication skills. With its Divisions of Chemistry, Physics and Mathematics and the Foreign & English Language Centre, the department creates a multidisciplinary learning environment that brings together fundamental sciences and emerging technologies. The Division of Chemistry supports teaching and research in functional and sustainable materials, electrochemistry, energy storage and green processes, laying a strong scientific foundation for advanced materials research. Serving as a vital bridge between the foundational sciences and specialised engineering disciplines, the department prepares students to excel in areas such as Artificial Intelligence, Robotics, Smart Infrastructure, Data Analytics, Advanced Manufacturing and Materials Engineering.

DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering offers B.Tech. programmes in Mechanical Engineering, Automation & Robotics Engineering, and Robotics & Artificial Intelligence, along with PhD programmes across all specialisations of mechanical engineering. Its industry-oriented curriculum keeps pace with the changing needs of industry.

Supported by a team of qualified and experienced faculty members, state-of-the-art research facilities and well-equipped laboratories, the department places strong emphasis on industry–institute interaction and industry–academia collaboration, bridging classroom learning with real-world engineering practice.

LIST OF RESOURCE PERSONS



Prof. N. S. Subba Reddy
Professor, Dept. of Materials Science & Engg., Gyeongsang National University, South Korea



Prof. Dr.-Ing. Lukas Löber
Professor, Faculty of Mechanical & Systems Engg., Esslingen University of Applied Sciences, Germany



Dr. Radhakant Rana
Senior Product Technology Specialist – Metallurgy, Tata Steel, Netherlands



Prof. Bankim Chandra Ray
Professor (HAG), Metallurgical & Materials Engg., NIT Rourkela



Prof. Subramanya Sarma Vadlamani
Professor & Head, Metallurgical & Materials Engg., IIT Madras



Prof. Srinivasa Rao Bakshi
Head, SMART Lab, Metallurgical & Materials Engg., IIT Madras



Prof. K Senthilkumaran
Associate Professor, Dept. of Mechanical Engg., IIITDM Kancheepuram



Dr. Manoj Mohapatra
Section Head, Radiochemistry Division, BARC, Mumbai



Dr. Nagaraj Kowmudi
Scientist, DMRL, DRDO, Hyderabad



Dr. Amitabh Verma
Consultant, UltraTech & Owner, Devam Renewables Oorja LLP, Mumbai



Dr. Tapan Rout
Principal Scientist & Project Lead, Tata Steel, Jamshedpur



Dr. K Anand
Consultant, Industrial Materials Insights, Bengaluru



Mr. Soumik Chakrabarty
Head of ICME (Materials), Indo-Pacific, Hexagon MI, Bengaluru

ABOUT
THE PROGRAMME

This Faculty Development Program (FDP) on "AI-Driven Sustainable Materials Discovery and Development for Cost-Effective Innovation" is designed to enhance the knowledge of the faculties and researchers in the emerging domain of sustainable materials development. It aims to promote innovation, interdisciplinary collaboration, and practical solutions aligned with global sustainability goals. The specific objectives are:

OBJECTIVES

1. To introduce the concept of sustainable materials development and its importance in recent times.
2. To expose participants to advanced tools and techniques for sustainable material discovery.
3. To promote green manufacturing for the development of advanced sustainable materials.
4. To bridge the gap between academia and industrial practices for sustainable material development.
5. To promote interdisciplinary research in sustainable materials and manufacturing with integration of AI.

OUTCOMES

This Faculty Development Program is expected to yield the following key outcomes:

1. Participants will gain enhanced knowledge about the recent advances and trends in the development of sustainable materials for modern applications.
2. They will gain exposure to modern tools (AI/ML) for sustainable materials development.
3. The FDP will strengthen academic-industry collaboration for the implementation of sustainable technologies for advanced materials.
4. The participants will learn to integrate the green manufacturing practices into the existing practices of materials manufacturing.
5. The participants will learn about sustainable practices in manufacturing and materials industry along with integration of AI for futuristic trends in these sectors.

AMRITA VISHWA VIDYAPEETHAM
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CHENNAI CAMPUS