

ABOUT THE COLLEGE

Sreepathy Institute of Management and Technology is the offspring of Sreepathy Trust which is made up of technocrats, engineers, philanthropists, industrialists, and individuals having a common goal, that of providing a platform to promote quality higher education and research in professional disciplines like technical and engineering subjects, medical and paramedical, management studies, agriculture, biotechnology and cultural studies in order that deserving candidates irrespective of caste, color and creed are given an opportunity to pursue their education. Sreepathy Institute of Management and Technology is located on a beautiful lush green hillock at Vavanoor, near Pattambi, on the Palakkad Guruvayoor Highway. The Institute is Approved by AICTE and affiliated to the APJ Abdul Kalam Technological University

Vision of the College

- Striving for excellence in generation and dissemination of knowledge.

Mission of the College

- To mould engineers of tomorrow, who are capable of addressing the problems of the nation and the world, by imparting technical education at par with international standards.
- To instill a desire in students for research, innovation, invention and entrepreneurship.
- To strive for creative partnership between the industry and the institute.
- To impart the values of environment awareness, professional ethics, societal commitment, life skills and a desire for lifelong learning.

ABOUT THE DEPARTMENT

The Mechanical Engineering Department of Sreepathy Institute of Management and Technology (SIMAT) was established in 2009. The Department has well qualified and experienced teaching and nonteaching staff engaged in teaching and development of practical and managerial skills of the students. They also contribute effectively in maintaining discipline and nurturing the personality of the students. The following facilities have been upgraded for the requirements of all the students: Mechanical workshop, Mechanical laboratories comprising fluidics, hydraulics, heat transfer, heat engines, production, instrumentation & CAD/CAM.

Vision of the Department

To act as quality knowledge center for creating technologically competent Mechanical Engineering professionals who will cater to the needs of emerging and interdisciplinary industry and research fields

Mission of the Department

- To provide theoretical and conceptual knowledge in Mechanical Engineering stream and enhance lifelong learning.
- To work in close association with stakeholders in industry by enhancing industry-institute interaction, to take up need based research and industry specific programmes



FACULTY DEVELOPMENT PROGRAMME

On

MATERIAL SCIENCE IN THE ERA OF AI AND RECENT TRENDS

Organized by



ABOUT THE FDP

The rapid advancement of Artificial Intelligence (AI), data-driven technologies, advanced manufacturing, and smart materials has transformed the field of Material Science and Engineering. Researchers and industries are increasingly integrating machine learning, computational tools, additive manufacturing, nanotechnology, biomaterials, and sustainable material processing into modern material design and development.

To bridge the gap between conventional material science practices and emerging intelligent technologies, this six-day workshop titled "Material Science in the Era of AI and Recent Trends" is proposed. The workshop is designed to provide participants with comprehensive exposure to modern developments in material science, AI-assisted material discovery, simulation tools, smart manufacturing, and advanced characterization techniques.

The programme will serve as a platform for academicians, researchers, industry professionals, and students to gain interdisciplinary knowledge and hands-on exposure to current trends shaping the future of material science.

OBJECTIVES OF THE FDP

- To introduce recent trends and innovations in material science and engineering.
- To familiarize participants with the role of Artificial Intelligence and Machine Learning in material discovery and optimization.
- To provide insights into computational materials engineering and data-driven material design.
- To discuss emerging areas such as biomaterials, nanomaterials, smart materials, and sustainable materials.
- To expose participants to advanced characterization and simulation techniques.
- To promote interdisciplinary research collaborations between academia and industry.
- To encourage participants to adopt AI-based tools in materials research and development

EXPECTED OUTCOMES

At the end of the workshop, participants will be able to:

- Understand emerging trends in material science and engineering.
- Apply AI and machine learning concepts in materials research.
- Gain knowledge of computational and simulation-based material design.
- Understand the applications of advanced materials in healthcare, aerospace, energy, and electronics.
- Explore recent developments in additive manufacturing and smart manufacturing.
- Identify research opportunities in AI-assisted materials engineering.

TARGETED PARTICIPANTS

- Faculty members of Engineering and Science institutions
- Research scholars and PhD students
- PG and UG students
- Industry professionals working in materials, manufacturing, and allied sectors
- Scientists and R&D engineers

Mode of Delivery

Online Platform

Scheduled Dates

22nd June to 27th June 2026.

How to register?

Interested participants may register online through the link after paying the registration fees through the QR code or Bank details given below:

https://docs.google.com/forms/d/e/1FAIpQLSf6efBOrd02gV0sVfxRjp8ejLojPTRgpHLM5maz7YfNNsC_QJ/viewform?usp=publish-editor

Merchant Name : PRINCIPAL SREEPATHY INTITUTE
UPI ID : principalsreepathy@sbi



Registration Fees: ₹200/- only

Pay To :

Account Name: PRINCIPAL SREEPATHY INTITUTE OF MANAGEMENT & TECHNOLOGY

Account No : 30960563740

Bank IFS Code : SBIN0013222

Name of Bank : STATE BANK OF INDIA

Branch Name : KOOTTANAD

Certificate:

Certificate shall be provided to all the participants those who have secured 80% attendance and successfully completing the course.

Important Dates:

Last date of Registration: 15th June 2026

Intimation of selection: 18th June 2026

Conlirmation of Participation: 19th June 2026

ADVISORY COMMITTEE:

Dr. S P Subramanian

(Principal, Sreepathy Institute of Management and Technology)

Dr. Hema P Menon

(Dean R&D, Sreepathy Institute of Management and Technology)

Mrs. Sushma M.

(Director IQAC, Sreepathy Institute of Management and Technology)

Coordinator Details:

Umanath P

(Assistant Professor, Dept. of Mechanical Engineering)

Co-Coordinator Details:

Mr. Jyothis Manu U

(Assistant Professor, Dept. of Mechanical Engineering)

Contact Details:

Ph: 9605497626 email id: jyothismanu.u@simat.ac.in

Programm Schedule:

Session	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
Session 1 (10.00 AM to 12.00 PM)	Topic: Speaker: Dr. Neelesh Ashok Designation: Assistant Professor (Sr) Affiliation: Amrita Vishwa Vidyapeetham	Topic: Speaker: Dr. Jerrin Joy Varughese, Designation: Assistant Professor Affiliation: Dayananda Sagar University.	Topic: Speaker: Dr. Arun Sam Varghese Designation: Assistant Professor	Topic: Speaker: Ashish Narayan Designation: Sub Section Leader Affiliation: GE Aerospace	Topic: Speaker: Mohamed Shammaz PT Designation: Assistant Professor Affiliation: VIT Vellore	Topic: Speaker: Dr. Lince Mathew Thomas Designation: Senior Researcher Affiliation: Anylo BPC Bioproducts,;
Session 2 (2.00 PM to 4.00 PM)	Topic: Speaker: Dr. Sreekanth P K Designation: Assistant Professor Affiliation: PSG Institute of Advanced Studies	Topic: Speaker: Dr. Nithin Mithra S, Designation: Assistant Professor Affiliation: NIT Calicut	Topic: Speaker: Dr. C. N. Shyam Kumar, Designation: Assistant Professor	Topic: Speaker: Sayyid Abdul Basith, Designation: Post Doctoral Fellow Affiliation: IIT Madras	Topic: Speaker: Dr. Abhilash P M Designation: Engineering Technologist Affiliation: National Manufacturing Institute Scotland	Topic: Speaker: Sayyid Abdul Basith, Designation: Post Doctoral Fellow Affiliation: IIT Madras

RESOURCE PERSONS:

Dr. Neelesh Ashok

Assistant Professor (Sr), Amrita School of Artificial Intelligence Amrita Vishwa Vidyapeetham Coimbatore

Dr. Sreekanth P K,

Assistant Professor, Mechanical Engineering Department PSG Institute of Advanced Studies, Coimbatore.

Dr. Jerrin Joy Varughese

Assistant Professor, Mechanical Engineering Department Dayananda Sagar University, Bangalore

Dr. Nithin Mithra S

Scientist, Membrane Development at Prova Technotrade Pvt Ltd, Mumbai

Dr. Arun Sam Varghese

Assistant Professor, Mechanical Engineering Department Carmel College of Engineering & Technology, Alappuzha.

Ashish Narayan

Sub Section Leader, GE Aerospace, Bangalore

Sayyid Abdul Basith

Post Doctoral Fellow, IIT Madras

Mohamed Shammaz PT

Assistant Professor, VIT Vellore