



Six Day International FDP (online) On Next-Gen Engineering Education: Modern Perspectives for Educators

8th June to 13th June 2026

Coordinated by

Dept. Applied Science and Humanities

Sreepathy Institute of Management & Technology
(SIMAT)

Vavanoor, Palakkad - 679533

OBJECTIVES

- To enhance faculty knowledge in interdisciplinary areas including science, AI, and emerging technologies.
- To improve teaching methodologies using innovative and outcome-based approaches.
- To develop skills in integrating digital tools and AI into the teaching-learning process.
- To strengthen understanding of student psychology, mentoring, and counselling techniques.
- To promote awareness of health, wellness, and current trends in education and entrepreneurship.

OUTCOMES

- Participants will be able to apply innovative and technology-enabled teaching strategies.
- Participants will integrate AI and digital tools effectively in their academic practices.
- Participants will demonstrate improved mentoring and student management skills.
- Participants will incorporate interdisciplinary knowledge into teaching and research.
- Participants will gain awareness of modern educational trends and holistic development practices.

RESOURCE PERSONS-VARIOUS DISCIPLINES

1. Dr. V Premachandran Retd. Senior Fellow, NUS Singapore
2. Dr. E Prasad Prof.& HoD of Physics, Central University of Kerala
3. Mrs. Jayashree A , KMCT College of Engineering for women
4. Mr. Sarath Sankar Project Officer Entrepreneurship Development Institute of India, EDII

5. Dr. P M Ravi Retd. Head of Environmental Studies Section, BARC
6. Mr. C K Suresh Harmony Mentor, Life Skill Trainer
7. Dr. Jijitha Valissery Research fellow, National Yang Ming Chiao Tung University, Taiwan
8. Dr. Faisal, Principal Markaz Training College, Counselling Psychologist
9. Dr. Hari Krishnan Research Scientist in AI, Quantiphi Analytics, Bangalore
10. Dr Rajesh CB, Associate Professor & Head Department of Physical Education, NSSCE, Palakkad
11. Dr. Deepa P Gopinath Retd. Professor Department of ECE, CET Thiruvananthapuram, Life skill Specialist
12. Dr. Muhammed Salim, Research Engineer at IPVF, France.

SESSION OVERVIEW

1. KEY CONCEPTS THE EDUCATORS MUST FOCUS TO MAKE THE YOUNG ENGINEERS RELEVANT IN FUTURE
2. APPLIED PHYSICS IN EMERGING TECHNOLOGIES
3. APPLICATION ORIENTED MATHEMATICS IN REAL LIFE
4. FUTURE OF EDUCATION"-HOW CAN A FLOURISHED ENGINEER HELP A SOCIETY IN MULTIPLE WAYS
5. CHEMISTRY IN ENVIRONMENTAL AND BIOMEDICAL ENGINEERING
6. HOW CAN A TEACHER HELP STUDENTS IN MANAGING STRESS AND BURN OUT ACADEMIC PRESSURE
7. ENERGY STORAGE AND BATTERY TECHNOLOGIES
8. EMOTIONAL INTELLIGENCE IN ENGINEERING EDUCATION
9. GENERATIVE AI FOR EDUCATORS
10. "BUILDING NEXT GEN ENGINEERS.INTEGRATING PHYSICAL ACTIVITY AND WELLNESS INTO HOLISTIC EDUCATION"
11. TRANSFORMATION THROUGH LIFE SKILL EDUCATION
12. PEROVSKITE SOLAR CELLS - FUTURE OF SOLAR ENERGY

TARGETTED PARTICIPANTS

Professors/Associate Professors/ Senior Assistant Professors /Assistant Professors/ Research Scholars.

ABOUT THE INSTITUTION

Sreepathy Institute of Management and Technology (SIMAT) is an initiative of the Sreepathy Trust, a collective of technocrats, engineers, philanthropists, industrialists, and visionaries united by a shared commitment to promoting quality higher education and research. The Trust strives to provide a dynamic platform for academic excellence across diverse professional disciplines, including engineering and technology, medical and paramedical sciences, management studies, agriculture, biotechnology, and cultural studies.

The institution is dedicated to ensuring that deserving candidates, irrespective of caste, colour, or creed are given equal opportunities to pursue higher education and achieve their aspirations.

Nestled on a picturesque, lush green hillock at Vavanoor, near Pattambi, along the Palakkad–Guruvayoor Highway, SIMAT offers an ideal environment for academic growth and innovation. Established in 2009, the institute is approved by AICTE, accredited by NAAC, NBA and affiliated with APJ Abdul Kalam Technological University (KTU).

VISION

- Striving for excellence in generation and dissemination of knowledge.

MISSION

- 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 instil 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

ADDRESS FOR COMMUNICATION

Coordinators:

Dr. Praveen P Nambissan

Professor & Head

Applied Science and Humanities Department, SIMAT

Mob: +91 9526508660

e mail: praveen.pn@simat.ac.in

Ms. Mayasree K M

Assistant Professor

Applied Science and Humanities Department, SIMAT

Mob: 8281501539

e mail: mayasree.km@simat.ac.in

Ms. Soumya P

Assistant Professor

Applied Science and Humanities Department, SIMAT

Mob: +91 8593021385

e mail: soumya.p@simat.ac.in

Postal Address:

Sreepathy Institute of Management & Technology (SIMAT),
Vavanoor, Palakkad – 679533

REGISTER HERE

Link: <https://forms.gle/jpPgcPxiFsVzrw1X8>

Registration Fee Rs.200/Participant



FDP SCHEDULE

08.06.2026	9.06.2026	10.06.2026	11.06.2026	12.06.2026	13.06.2026
09.45AM – 10.00AM Inauguration	10.00AM – 12:00 NOON Session 3	10.00AM – 12:00 NOON Session 5	10.00AM – 12:00 NOON Session 7	10.00AM– 12:00 NOON Session 9	10.00AM– 12:00 NOON Session 11
10.00AM – 12.00 NOON Session 1 “KEY CONCEPTS THE EDUCATORS MUST FOCUS TO MAKE THE YOUNG ENGINEERS RELEVANT IN FUTURE” Dr. V Premachandran	“APPLICATION ORIENTED MATHEMATICS IN REAL LIFE” Mrs. Jayashree A	“CHEMISTRY IN ENVIRONMENTAL AND BIOMEDICAL ENGINEERING” Dr. P M Ravi	“ENERGY STORAGE AND BATTERY TECHNOLOGIES” Dr. Jijitha Valissery	“GENERATIVE AI FOR EDUCATORS” Dr. Harikrishnan P M	“TRANSFORMATION THROUGH LIFE SKILL EDUCATION” Dr. Deepa P Gopinath
2.00NOON -04.00PM Session 2 “APPLIED PHYSICS IN EMERGING TECHNOLOGIES” Dr. E Prasad	2.00PM -04.00PM Session 4 “FUTURE OF EDUCATION”-HOW CAN A FLOURISHED ENGINEER HELP A SOCIETY IN MULTIPLE WAYS” Mr. Sarath Sankar	2.00PM -04.00PM Session 6 “HOW CAN A TEACHER HELP STUDENTS IN MANAGING STRESS AND BURN OUT ACADEMIC PRESSURE” Mr. C.K Suresh	2.00PM -04.00PM Session 8 “EMOTIONAL INTELLIGENCE IN ENGINEERING EDUCATION” Dr. Faisal	2.00PM -04.00PM Session 10 “BUILDING NEXT GEN ENGINEERS.INTEGRATING PHYSICAL ACTIVITY AND WELLNESS INTO HOLISTIC EDUCATION” Dr. Rajesh C B	2.00PM- 03.50PM Session 12 “PEROVSKITE SOLAR CELLS-FUTURE OF SOLAR ENERGY” Dr. Muhammed Salim
					03.50PM-04.00PM VALEDICTORY FUNCTION