

SRM Institute of Science and Technology is one of the top-ranking universities in India with over 52000 students and more than 3200 faculty members, offering a wide range of undergraduate, postgraduate, and doctoral programmes in Engineering, Management, Medicine, Health sciences and Science and Humanities. It has established itself as a premier centre for teaching, research and industrial consultancy in the country. It has world class infrastructure, including smart classrooms, Hi-tech labs, advanced instruments and equipment, research laboratories, modern library and Wi-Fi facility. Ministry of HRD, Govt of India, placed SRMIST in “A++” category.

DEPARTMENT OF CHEMISTRY

Department of Chemistry, SRMIST has been engaged in opening up the fascinating world of chemistry to students since 1985. The department is supported by DST FIST, Govt of India and holds QS World University Ranking 351-400 by subject and 10 position (joint) among Indian Universities. The department is offering B. Sc., M.Sc., and Ph.D. in Chemistry. It has 70 faculty members whose areas of expertise and research include organic, inorganic, physical, analytical, environmental, electrochemistry, computational materials science and nanotechnology. The faculty members of the department have contributed to academics by publishing books, research articles in high impact peer reviewed journals, presenting papers in conferences delivering guest lectures and invited talks. The department has tie ups with recognized academic institutions, industries and R&D laboratories for student projects, training and research activities.

Short-Term Training Program (STTP-ML) On

Applications of Machine Learning in Chemical Process Outcomes Prediction 7th–11th July, 2025

ABOUT WORKSHOP

This high-end workshop is designed for faculty members and research scholars, offering comprehensive insights into the integration of Machine Learning (ML) in material selection, reaction development, and process optimization within the domains of chemistry and chemical engineering. The primary objective of the STTP is to explore how ML-driven approaches can enhance the understanding and efficiency of chemical processes—particularly in predictive modeling, molecular property analysis, reaction outcome prediction, and process optimization techniques.

TARGETED AUDIENCE:

Faculty, Research Scholars, and Industry personnel

MODE OF TRAINING:

Hands-on training in the computer laboratory

REGISTRATION LINK :

<https://forms.gle/rG9MbT8JkTy6avnGA>



SRM

INSTITUTE OF SCIENCE & TECHNOLOGY
Deemed to be University u/s 3 of UGC Act, 1956

SRM Institute of Science and Technology Department of Chemistry College of Engineering and Technology

Short-Term Training Program (STTP-ML) On Applications of Machine Learning in Chemical Process Outcomes Prediction

7th - 11th July 2025

Time: 9.30 AM to 4.00 PM

Venue: TP416, Fourth Floor

Technology Park

SRMIST, Kattankulathur

Organized by
Department of Chemistry
College of Engineering and Technology
SRM Institute of Science and Technology
Kattankulathur



A++



Category I
with 12B Status



(2024)
12th Ranked University



(2025) World Ranking
one among 46 Indian Universities



(2024) World Ranking
one among 91 Indian Universities



VERY GOOD
QS 4 Star Rated Globally



(2024) World Ranking
Ranked 5-7 in Indian Universities

RESOURCE PERSONS

- ◆ Prof. U. Deva Priyakumar
Professor, Center for Computational Natural Sciences & Modeling, IIIT Hyderabad
- ◆ Dr. Tarak Patra
Associate Professor, Department of Chemical Engineering, IIT Madras
- ◆ Dr. Mudit Dixit
Senior Scientist, CSIR–Central Leather Research Institute (CLRI), Chennai
- ◆ Ms. Urmila Kishore
Director (Retail & CPG), Exafluence Pvt. Ltd., Chennai
- ◆ Dr. Abhinav S. Raman
Assistant Professor, Department of Chemical Engineering, IIT, Madras
- ◆ Ms. Subashree P – Team Lead, Saint-Gobain, India Region
- ◆ Dr. K.B. Sundhara Kumar
Associate Professor, Department of Computer Science, Shiv Nadar University Chennai
- ◆ Dr. Anitha R
Professor & Head, Department of Computer Science and Engineering, SVCE, Sriperumbudur
- ◆ Dr. M. Lakshmi
Professor & Head, Department of Networking & Communications, SRMIST
- ◆ Dr. P. Vijayakumar – Professor, Department of ECE, SRMIST
- ◆ Dr. D. Hemavathi
Associate Professor, Department of Data Science and Business Systems, SRMIST
- ◆ Dr. Srividhya S
Assistant Professor, Department of Data Science and Business Systems, SRMIST
- ◆ Dr. C. Sherin Shibi
Assistant Professor, Department of Computing Technologies, SRMIST

This STTP meets SDG 9



PROGRAMME FEATURES

- Understanding the relevance of ML through different applications
- Highly Interactive Sessions with theoretical and practical applications
- Instructor-led, interesting, hands-on sessions
- Ability to connect to eminent researchers across the globe
- Certificate on successful completion

COURSE CONTENTS

Trustworthy and Fair ML applications in:

- Optimizing the catalyst
- Predicting the product yield
- Understanding the cyclability of the battery electrode
- Organic synthesis and drug design

HANDS-ON SESSIONS

We have organized practice sessions to help participants explore real-world datasets and develop research techniques related to each of the previously discussed topics.

- Work with real molecular datasets
- Build simple prediction models
- Design new molecules using AI
- Represent molecules as graphs
- Predict chemical reactions using AI tools
- Understand how AI models make decisions

EMAIL FOR COMMUNICATION

sudhav1@srmist.edu.in

rajaramv@srmist.edu.in

ACCOMMODATION

Available on a payment basis in SRM hostels.

ONLINE PAYMENT DETAILS

Beneficiary Name : Chemistry Department Association
Bank Name : CITY UNION BANK
A/C No. : 500101011069471
IFSC Code : CIUB0000117
Branch : Tambaram

PATRONS

Dr. T. R. Paarivendhar, Founder Chancellor, SRMIST
Dr. Ravi Pachamuthu, Pro-Chancellor (Administration), SRMIST
Dr. P. Sathyanarayanan, Pro-Chancellor (Academics), SRMIST
Dr. R. Shivakumar, Chairman, SRMIST (Trichy & Ramapuram Campuses)

ADVISORY COMMITTEE

Dr. C. Muthamizhchelvan, Vice Chancellor, SRMIST
Dr. S. Ponnusamy, Registrar, SRMIST
Dr. Leenus Jesu Martin M, Dean, College of Engineering and Technology (CET), SRMIST
Dr. S. S. Sridhar, Associate Dean (Academics, CET), SRMIST
Dr. A. Ajayaghosh, SSB Chair Professor, SRMIST
Dr. A. Duraisamy, Dean, FSH, SRMIST
Dr. B. Neppolian, Dean, Research, SRMIST
Dr. M. Arthanareeswari, Chairperson, SBS, SRMIST
Dr. V. Subramanian, Visiting Professor, SBS, SRMIST
Dr. Revathi Venkataraman, Chairperson, SoC, SRMIST
Dr. M. Pushpalatha, Associate Chair, SoC, SRMIST
Dr. M. Prakash, Research Professor & Head, Department of Chemistry, CET, SRMIST
Dr. M. Lakshmi, Head, NWC, SRMIST

CONVENOR

Dr. Jeyalakshmi R, Professor, Department of Chemistry

CO-CONVENORS

Dr. V. Sudha, Associate Professor, Department of Chemistry
Dr. Rajaram V, Associate Professor, Department of Networking and Communications

REGISTRATION DETAILS

Eligibility: Faculty & Research Scholars, PG Students
Fee: ₹2000 (PG Students/SRM Staff/Research Scholars),
₹3000 (Others)
Deadline: July 5, 2025

Early Bird Offer: Register on or before 3rd July 2025 and get ₹500 off!
Note: Limited seats – first come, first serve

