

KEYNOTE SPEAKERS



Dr. Snehalatha Kaliappan
Senior Project Scientist
Spoken Tutorials
IIT - Bombay



Dr. Rani Parvathy
Senior Project Scientist
Spoken Tutorials
IIT - Bombay



Dr. Madhuri Ganapathi
Senior Project Scientist
Spoken Tutorials
IIT - Bombay

REGISTRATION LINK:



<https://forms.gle/J57urR2Q4ppu8TxTA>

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ADVISORS

Dr. N. Rajini - Dean, FE
Dr. C. Ramalingan - Dean, SAS

PROGRAMME COORDINATOR

Dr. P. Sivaranjana, Asst. Prof., Chemistry

ORGANIZING COMMITTEE

Dr. N. Selvapalam, Associate. Prof., Chemistry
Dr. P. Lakshminarayanan, Asst. Prof Chemistry
Dr. D. Geetha, Asst. Prof., Chemistry
Dr. S.Syed Ali Fathima, Asst. Prof., Chemistry

ADDRESS FOR CORRESPONDENCE

The Coordinator/FDP
Department of Chemistry
Kalasalingam Academy of Research and
Education (Deemed to be University)
Krishnankoil - 626126
Email: p.sivaranjana@klu.ac.in
Ph. +91-7373513215



KALASALINGAM

ACADEMY OF RESEARCH AND EDUCATION

(DEEMED TO BE UNIVERSITY)

Under sec. 3 of UGC Act 1956. Accredited by NAAC with "A" Grade

FACULTY DEVELOPMENT PROGRAMME

ON

Jmol and Freeplane Science
open source software for
teaching and learning

in association with



Spoken Tutorial Project
Undertaken by IIT - Bombay

JULY 17 - 21, 2023



Organized by

SCHOOL OF
FRESHMAN ENGINEERING
DEPARTMENT OF CHEMISTRY

THE INSTITUTION

Kalasalingam Academy of Research and Education (KARE) is situated in a serene campus surrounded by scenic mountainous setting at Krishnankoil. It is located 60 kms south of Madurai and 10 kms north of Srivilliputtur on Madurai-Sengottai national Highway. The institution (formerly Arulmigu Kalasalingam College of Engineering) was established in 1984 by the pioneering vision of "Kalvivalla" Late Thiru T. Kalasalingam, a veteran freedom fighter and Chairman of Kalasalingam group of Institutions. The institution has excellent facilities and focus for Research and Development programme.

THE DEPARTMENT

Welcome to the Department of Chemistry, Kalasalingam Academy of Research and Education, a vibrant mix of faculties, researchers and students. Since its inception in 1984, the excellence of Department of Chemistry – an oldest one of Kalasalingam University, has played an imperative role in the University in each and every aspect. The Department offers B.Sc., M.Sc., and Ph.D. programmes in Chemistry besides B.Sc in Forensic science, and also offers diverse courses to undergraduate programmes of other disciplines.

The Department has well equipped research laboratories, internet and library facilities which lead to pour innovative ideas to the students. The Department not only involved in teaching but also in advanced research and published articles in high impact journals.

INTERNATIONAL RESEARCH CENTRE (IRC)

International Research Centre (IRC) at Kalasalingam University is established to carry out advanced research in the broad areas of materials science, energy and computing.

The following laboratories are established.

- Advanced Instrumentation facilities
- Multifunctional Materials laboratory
- Nano-materials laboratory
- Centre for Composite Materials

International Research Centre (IRC) is a vibrant and student-centered research centre with highly qualified Professors from India and Abroad.

SCOPE

This FDP program is aimed to impart advanced level pedagogy tool in the teaching learning process. To enable the students to achieve higher level learning. The program will be conducted through a series of lectures by the eminent trainers from spoken tutorial projects and followed by the hands on training in Jmol and Freeplane science open source software for teaching and learning.

COURSE TOPICS

- Atomic and Molecular Structure,
- Spectroscopic Techniques,
- Equilibrium Thermodynamics and water chemistry,
- Periodic properties and molecular interactions,
- Stereochemistry and reaction mechanism.

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TRAINING PLAN

- Create and edit molecular models, Measurements and Labelling
- Script Console and Script commands
- Crystal structure and Unit cell
- Animation using script commands
- Animation using script commands
Creating Jsmol integrated web page
- Introduction to Freeplane
- Concepts map in Teaching and Learning
- Structured Text to Map Conversion
- Time manager and Remainder
- Groovy script and Freeplane
- Project title identification and preparation of Abstract for uploading in the FOSSEE- SOUL website
- Uploading abstract in FOSSEE – SOUL website