

ELIGIBLE PARTICIPANTS

The Course is valid for Faculty, research scholars and students of UG and PG in Chemistry

HOW TO APPLY

<https://forms.gle/Z7ZSBedfG2RNWW117>

LAST DATE TO REGISTER:

29th March 2022 5:00 pm

REGISTRATION CHARGES:

Faculty Members: 750/-

Research Scholars and students: 400/-

TWO OPTIONS:

Option A: (WITH DUTY LEAVE)

Teachers are entitled to "Duty Leave" subject to their Institution's permission and provided they complete all the activities in time-bound manner within the duration of this Program. The Duty leave order or relieving order has to be submitted by the participant for this option.

Option B: (FLEXIBLE MODE WITHOUT DUTY LEAVE)

This Program can also be done in flexible mode. In this case, no duty leave shall be applicable and additional time of maximum 2 weeks will be given to complete the assignments, project, and quizzes.

Eminent Personalities at the Inaugural and Valedictory Sessions

- Dr. Kanchana Bhaaskaran V. S**
Pro-Vice Chancellor, VIT Chennai
- Dr. B. L. V. Prasad**
Director and Scientist
Centre for Nano and Soft matter Sciences,
Bengaluru
- Prof. A. K. Bakhshi**
Vice-Chancellor
PDM University, Bahadurgarh, Haryana
Chairman, GAD-TLC, Ministry of Education, GoI
- Prof. Jaswinder Singh**
Principal
SGTB Khalsa College, DU
Director, GAD-TLC, Ministry of Education, GoI
- Prof. Vimal Rarh**
Project Head & Joint Director
GAD-TLC, Ministry of Education, GoI
Coordinator, National Resource Centre of
Chemistry, Ministry of Education, GoI

Speakers:

- Prof. Ashok Kumar Mishra, IIT Madras
- Prof. R. Gurunath, IIT Kanpur
- Prof. Pranesh Chowdhury, Visva-Bharati University, West Bengal
- Prof. Pratik Sen, IIT Kanpur
- Prof. P. Manikandan, IIT Jodhpur
- Dr. S. N. Jaisankar, Chief Scientist, CLRI, Adyar
- Dr. T. M. Sridhar, University of Madras
- Dr. Jubi John, Senior Scientist, NIIST CSIR
- Dr. Adinarayana Doddi, IISER Berhampur
- Dr. Kannan Ramaiyan, University of New Mexico

Organising Committee

- Dr. Tanushree Choudhury (9840996288)
- Dr. K. Rajendra Kumar (7358665174)
- Dr. Balamurali M M (8220899788)
- Dr. R. Saravana Kumar (8667267652)



VIT
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)
CHENNAI

ONE WEEK ONLINE FDP/CERTIFICATE
PROGRAMME

ON

RECENT ADVANCES

IN

CHEMISTRY

30th March – 5th April 2022

Organized By

Chemistry Division

Vellore Institute of Technology

Chennai-600127

In Collaboration With

Guru Agad Dev

Teaching-Learning Centre

SGTB Khalsa College Delhi University

Ministry of Education, GoI

(PMMMNMTT)

CO-PATRON

Prof. Jaswinder Singh

Principal
SGTB Khalsa College, DU
Director, GAD-TLC, Ministry of Education, GoI

Prof. A. K. Bakhshi

Vice-Chancellor
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Chairman, GAD-TLC, Ministry of Education, GoI

National Coordinator

Prof. Vimal Rarh

Project Head & Joint Director
GAD-TLC, Ministry of Education
Coordinator, National Resource Centre of Chemistry
Ministry of Education, GoI

This will be conducted through ONLINE MODE and will be equivalent to face to face One Week FDP (Fulfills requirement as per CAS of UGC & AICTE for promotional requirements of Teachers.

About VIT Recognized as Institution of Eminence (IoE), Govt. of India

Vellore Institute of Technology was founded by Dr. G. Viswanathan who is also the Chancellor of the Institute. Under the leadership of the Chancellor, VIT stands as a center of excellence in the higher technical education. Vellore Institute of Technology (VIT) has emerged as one of the best institutes of India and is aspiring to become a global leader. Quality in teaching-learning, research and innovation make VIT unique. VIT attracts students from all the 29 states of India and more than 41 different countries because of its academic excellence. VIT has the record of publishing maximum number of SCOPUS Indexed Research Journal papers, among Indian Universities, overtaking all the premier institutions. VIT has also completed 3 cycles of NAAC accreditation and has been rated as an "A++" grade institution. In addition, VIT also has obtained the coveted ABET accreditation by US agency. VIT is also ranked by QS World University Ranking, Times Higher Education (THE) World University Ranking, QS and THE Asia Ranking, QS and THE BRICS Ranking, THE Young university ranking of the world universities and others. 10 engineering programs of Vellore and 4 engineering programs of Chennai campus are accredited by ABET, USA. VIT is the first institute of India to receive QS 4-Star rating in overall category and QS 5-Star rating in teaching, employability, facilities, innovation and inclusiveness. VIT Chennai is ably spearheaded by Vice Presidents Mr. Sankar Viswanathan, Dr. Sekar Viswanathan and Mr. G.V. Selvam, Vice Chancellor Dr. Rambabu Kodali, and Pro Vice Chancellor Dr. V. S. Kanchana Bhaaskaran. They all share in the mission to make VIT a global educational center.

About School of Advanced Sciences (SAS)

The School of Advanced Sciences (SAS) and VIT Chennai comprise Divisions of Mathematics, Physics and Chemistry. It offers the following programmes:

- PhD- Physics/Chemistry/Mathematics/Geology
- M. Sc- Physics/Chemistry/Data Science
- B. Sc. Mathematics and Computing
- B. Sc. Double Major- Physics & Chemistry/Chemistry & Mathematics/ Mathematics & Physics

The School also offers a plethora of core and elective courses facilitating B. Tech, M. Tech, MCA, Management, and Law programmes.

About GAD-TLC

GAD-TLC is a leading Centre of Ministry of Education, Govt. of India under Pandit Madan Mohan Malviya National Mission for Training Teachers (PMMMNMTT). Since 2016, it has trained more than 42,000 teachers in the areas of e-learning, Blended learning Pedagogies, ICT Tools and Educational Technologies. The core team of GAD-TLC has expertise of developing more than 50 MOOCs for SWAYAM platform of Govt. of India and the e-content produced by GAD-TLC has been rated as one of the best in quality at the National Level.

Concept Note

Chemistry is the science of the future. The wonder lies in the various transformations a molecule undergoes, the energy released or absorbed in the process, the structural properties, and the presence of various compositions. Thus, we use the knowledge of these properties to achieve specific purposes. The great challenge in chemistry is the development of a coherent explanation of the complex behaviour of materials that give them their enduring properties and how interactions among different substances can bring about the formation of new substances with the destruction of the old ones.

Chemistry is also concerned with utilising natural substances and the creation of artificial ones. The 20th century saw dramatic advances in comprehending living organisms' incredible and complex chemistry.

We can aid modern chemistry by increasingly sophisticated instruments to study materials as small as single atoms and as large and complex as DNA with millions of atoms. The rate at which chemical knowledge continues to accumulate is remarkable. The 'iron age' of civilisation has been slowly replaced by a 'polymer age' by the continuous efforts of scientists in the research field of chemical sciences. The potential of chemical products for enriching society appears to be unlimited.

This one-week FDP intends to provide a platform for faculty, research scholars, and students to share new information, advances, and outlook in chemical sciences. This event will facilitate the teaming and exchange of ideas to answer the current need and future perspective in different research fields of chemistry.

Topics to be covered:

1. Spectroscopy
2. Fuel Cells
3. Synthesis of Bioactive compounds
4. Organometallic Chemistry
5. Quantum and Computational Chemistry
6. Polymer and Materials Chemistry
7. Biochemistry
8. Coordination Chemistry

Highlights of the FDP

Successful Completion Certificate: After qualifying in assignments, projects, online quizzes as per norms (50% or above)

Certificate of Participation: Those who do not qualify will be given certificate of participation