

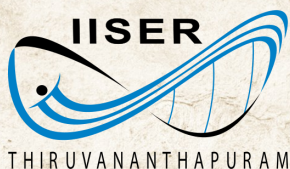
REFRESHER & PREPARATIVE WINTER SCHOOL (RPWS)

3 - 20 December 2023

For 2nd year M.Sc. Science Students
(Biology, Chemistry & Physics)



Target Participants: Ph.D Aspirants
*(Preparing for national exams like
NET, GATE, JGEEBILS, JEST, etc.)*



Venue:
IISER Thiruvananthapuram

→ Last Date: 20th August 2023
→ Free Online Registration

WINTER SCHOOL IN BIOLOGY

Winter School in Biology is aimed at fostering active learning of fundamental concepts in modern biology with a research outlook. The training includes interactive lecture sessions, glimpse of biology labs, research seminars and soft-skills for science. The program will focus on training highly talented and motivated students who are interested in pursuing a research career after Masters.



INTAKE

- ◆ 50 Students
- ◆ Nation-wide selection



ELIGIBILITY

- ◆ Final year of M.Sc. and Integrated BS-MS in Biological Sciences and allied subjects.



TOPICS

- ◆ Biochemistry
- ◆ Evolutionary Biology
- ◆ Microbiology
- ◆ Cell Biology
- ◆ Methods in Biology
- ◆ Genetics
- ◆ Molecular Biology
- ◆ Genomics
- ◆ Neurobiology
- ◆ Physiology
- ◆ Ecology
- ◆ Immunology
- ◆ Structural Biology
- ◆ Developmental Biology
- ◆ Applied Biology

Free Online Registration
Deadline: 20th August 2023

REGISTER
NOW

WINTER SCHOOL IN CHEMISTRY

The Refresher and Preparative Winter School 2023, at the School of Chemistry, intends to imbibe scientific attitude and aptitude for research in young enthusiasts. The program will focus on training highly talented students who are motivated to pursue research career after their master's degree. Through an interactive learning environment, this winter school is aimed to (i) instill a strong foundation of the fundamental concepts through a quick recap, (ii) strengthen understanding of advanced concepts and (iii) develop logical thinking and problem-solving capabilities in diverse areas of chemistry, which include organic, inorganic, physical, and theoretical chemistry. This program also intends to provide critical inputs on different opportunities available to the students after their postgraduate program. The winter school will select fifty students (at the national level) based on their academic performances.



ELIGIBILITY ♦ M.Sc. Second Year

Free Online Registration
Deadline: 20th August 2023

REGISTER
NOW



TOPICS & SPEAKERS

- ♦ Principles of Quantum Chemistry: Dr. R. S. Swathi & Dr. Vinesh Vijayan
- ♦ Principles and Application of Spectroscopy: Dr. Adithya Lakshmana & Dr. Vinesh Vijayan
- ♦ Equilibrium Thermodynamics: Prof. K. George Thomas & Dr. Jerry A. Fereiro
- ♦ Statistical Thermodynamics: Dr. Pushpita Ghosh
- ♦ Chemical Kinetics and Electrochemistry: Prof. Mahesh Hariharan & Dr. A. Muthukrishnan
- ♦ Symmetry and Group Theoretical Applications in Chemistry: Dr. V. Sivaranjana Reddy
- ♦ Mathematical Methods for Chemists and Data Analysis: Dr. V. Sivaranjana Reddy
- ♦ General Organic Chemistry: Dr. Reji Varghese & Dr. Rajendar Goreti
- ♦ Reagents in Organic Chemistry: Dr. Alagiri Kaliyamoorthy & Dr. Veera Reddy Yatham
- ♦ Pericyclic and Photochemistry: Prof. Kana M. Sureshan & Dr. Soumen De
- ♦ Heterocyclic Chemistry: Dr. Basudev Sahoo
- ♦ Asymmetric Synthesis: Dr. Ramesh Rasappan
- ♦ Structure Determination of Organic Compounds: Prof. J. N. Moorthy
- ♦ Coordination and Bioinorganic Chemistry: Dr. Gokulnath Sabapathi & Dr. Rajendra Kurapati
- ♦ Organometallics: Dr. Subrata Kundu & Dr. Ramaraj Ayyappan
- ♦ Solid State Chemistry: Prof. Sukendu Mondal & Dr. Thirumurugan
- ♦ Main Group Chemistry: Dr. Ajay Venugopal & Dr. Ramaraj Ayyappan

WINTER SCHOOL IN PHYSICS

The refresher program is specially designed for highly motivated students at the Master's level, and aims to instill the fundamental concepts of Physics through problem-solving exercises. Additionally, it offers insights into the state-of-the-art research activities in the field and prospective avenues for future exploration.



HIGHLIGHTS

- ◆ Comprehension, Reasoning and Problem Solving in Physics
- ◆ Exposure to cutting-edge international research
- ◆ Discussions on opportunities after Masters



TOPICS

- ◆ Mathematical Methods
- ◆ Classical Mechanics
- ◆ EM Theory and Optics
- ◆ Quantum Mechanics
- ◆ Thermodynamics and Statistical Physics
- ◆ Electronics and Experimental Methods
- ◆ Atomic and Molecular Physics
- ◆ Condensed Matter Physics
- ◆ Nuclear and Particle Physics
- ◆ Experimental Demonstrations



INTAKE

- ◆ 50 Students

Free Online Registration
Deadline: 20th August 2023

REGISTER
NOW

For more details about School of Physics: [CLICK HERE](#)

