



## CSIR Integrated Skill India Initiative

### Training Course on Nuclear Magnetic Resonance spectroscopy (NMR)



#### CODE: IICB-NMR

Nuclear Magnetic Resonance Spectroscopy is an important analytical chemistry technique used in quality control and research for determining the content and impurity of a sample (drug, protein and etc.) as well as its molecular structure. The course is specially targeted to candidates having chemical/pharmaceutical background with basic knowledge in organic and analytical chemistry. This expanded analytical science training programme will develop the practical analytical knowledge and techniques for self sustainability. CSIR-IICB will offer a course on NMR Spectroscopy under the skill development program initiated by Govt. of India.

**Educational Qualifications** : UG or PG (in any branch of Science/Technology/Pharmacy)  
(Pursuing/ Completed degree)

**Venue Of the course** : CSIR-IICB, Jadavpur Campus

**Age Group** : 18 and above

**Medium of Instruction** : English

**Duration** : 2 weeks (06<sup>th</sup> January 2025-17<sup>th</sup> January 2025)

**Course Fees** : Rs 5000/- (Inclusive of GST)

#### The course will cover-

- ✓ Principles and practical aspects of Nuclear Magnetic Resonance spectroscopy
- ✓ Types of NMR technique
- ✓ Sample preparation
- ✓ Running the NMR experiment (Hands on training)
- ✓ Spectral interpretation
- ✓ Molecular structure determination of known and unknown sample
- ✓ Practical assessment





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#### Salient Features of the course:

- 50% theory and 50% practical classes
- Tutorials will be provided by eminent scientists of organic and medicinal chemistry background
- Lectures will be provided with multimedia aids
- Hands-on training on NMR
- Professional skill development, case study, evaluation and certification.
- Lectures, assisted with multimedia aids
- Case studies
- Group discussions/interactive sessions
- Seats Available : 10(Shortlisting will be based on first come-first serve policy and eligibility criteria of the course)**
- Due to limited availability of seats, early registration through online application is recommended .
- Candidates can apply for multiple courses. In such cases, shortlisting will be based on fulfilment of eligibility conditions, availability of seat and number of single choice applicants for the course**
- Admission process is completely online including the payment of fees.
- Once a candidate is shortlisted for a particular course, any request for change of course will not be accepted .
- Candidates cannot take admission simultaneously in two different courses
- **Refunds to the enrolled candidates will be made by the institute in case of cancellation of the course due to low batch strength. Such candidates will be informed about withdrawal of course and refund of fees within stipulated time.**

