




# Workshop on Mastering NMR Spectroscopy

## About the Workshop

Want to master NMR spectroscopy and confidently interpret spectra? This workshop covers fundamental and advanced techniques, helping you analyze  $^1\text{H}$ ,  $^{13}\text{C}$ , and 2D NMR data for structural elucidation. Ideal for students and researchers, it will sharpen your skills and make your data analysis more efficient and accurate. Join us!

 **Dates: April 16–18, 2025**

 **Time: 5:00 PM – 7:00 PM IST**

 **Mode: Online (Zoom)**


## Meet the Workshop Organizer

 **Dr. Syed Zahid Hassan** (Research Professor)

POSTECH, Pohang, Republic of Korea

Profile: [Google Scholar](#), [LinkedIn](#)

## Contact Information

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 **Visit our website for more information: [MetaChem Academy](https://www.metachemacademy.com)**

## Registration Details

**Register:** [Click here](#) or Scan the QR Code:

- **Left:** Registration
- **Center:** UPI Payment (India)
- **Right:** Chemistry Workshop WhatsApp Community




### Indian Participants:

- ₹300 INR (attend only)
- ₹600 INR (attend + certificate)
- Payment via: UPI ID: 9145685941@ybl




### Overseas Participants:

- 6 USD (attend only)
- 12 USD (attend + certificate)
- Payment via: You can pay via PayPal using the following link: [Click here](#).

\*For any payment-related assistance, feel free to contact me.

 **Certificate issued under my name as an independent organizer. (WhatsApp/email for template)**

## Who Should Attend?

-  Researchers and academics working with organic, inorganic, or biological compounds
-  Students aiming to improve NMR interpretation skills for coursework and thesis research
-  Anyone interested in mastering molecular structure elucidation through NMR

## Workshop Schedule

### Day 1 (16th April 2025)

#### Fundamentals of NMR & Spectral Interpretation

- Introduction to Nuclear Magnetic Resonance (NMR) and its principles
- Understanding chemical shifts, coupling constants, and signal splitting
- $^1\text{H}$  NMR Interpretation – Step-by-step analysis of simple and complex spectra
- $^{13}\text{C}$  NMR Spectroscopy – Carbon environments, chemical shifts, and DEPT experiment
- Live demonstration of spectral analysis and Q&A session

### Day 2 (17th April 2025)

#### Advanced 1D NMR & Practical Applications

- Special  $^1\text{H}$  NMR techniques (e.g., DEPT, selective decoupling)
- How to use  $^{13}\text{C}$  NMR effectively for structural elucidation
- Interpretation of  $^1\text{H}$  and  $^{13}\text{C}$  NMR spectra with real examples
- Introduction to 2D NMR (COSY, HSQC, etc) – when to use it
- Problem-solving session with real case studies and participant Q&A.

### Day 3 (18th April 2025)

- Special Spectral Analysis Session