



Proficience Course Solid-State Solid-State States and Spectroscopy for Spectroscopy for States also Science and Pharmaceuticals

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Schedule: 1 May to 31July 10 A.M. To 11:30 A.M. Every Saturday

OBJECTIVES

1. Understand Fundamental Principles 2. Apply SSNMR to Pharmaceuticals and Different Material Classes

3. Employ Key Experimental Techniques: 1D, 2D and Relaxation Measurements

4.Interpret SSNMR Spectra for Structural Insights

5.Analyze Real-World Case Studies and
Research Applications
6.Develop Practical Skills in SSNMR

Experimentation

SYLLABUS

course covers the principles and This applications of solid-state nuclear magnetic resonance spectroscopy. Topics include spin **Contact Us:** interactions, chemical shifts, quadrupolar nuclei, relaxation studies, and advanced **Centre for Continuing Education** techniques such as dipolar recoupling and dynamic nuclear polarization. Applications Indian Institute of Science, Bengaluru focus on pharmaceuticals, battery materials, 560 012, India and porous materials. Case studies explore Phone: +91 080 2293 2055/2491/2247 characterization, degradation material E-mail: office.cce@iisc.ac.in analysis, and structural insights. The course also discusses the integration of nuclear www.cce.iisc.ac.in/cce-proficience/ magnetic resonance with complementary techniques.



Course Co-ordinator Prof. Sheetal Kumar Jain Solid State and Structural Chemistry Unit B204, Chemical Sciences Building Indian Institute of Science, Bangalore.