

TCIS, Hyderabad

Course: Principles of NMR Spectroscopy

Start Date: 8th August, 2017

Coordinates (Preferred): Tuesday and Thursday between 11.30 am and 01.00 pm

Instructor(s): Prof. P.K. Madhu & Dr. Vipin Agarwal

Syllabus:

- Basic concepts in NMR spectroscopy
- Theoretical description of NMR spectroscopy
- Bloch equations, chemical-exchange, spin-echo, T1, T2, T1rho,
- Instrumentation, polarization transfer pathways
- Pulse techniques
- Two-dimensional NMR
- Multiple quantum NMR
- Heteronuclear NMR
- Three-dimensional NMR
- Introduction to Protein structures by NMR