

UGC-SAP SPONSORED NATIONAL WORKSHOP ON FRONTIERS OF NMR SPECTROSCOPY AND MRI

Training Program Delivered By Experts

25-29, SEPTEMBER, 2017

DEPARTMENT of CHEMISTRY, CENTER of EXCELLENCE,
SAURASHTRA UNIVERSITY, RAJKOT

Fee Structure *

Industries	Faculties (Govt. and Grant in Aid)	Faculties (Management Appointees)	Student
₹ 3000	₹ 3000	₹ 1500	₹ 1000

* Including Lunch

* Excluding Dinner, Boarding and Accommodation

* Fees should be paid through DD in favour of “chem.dept.sap”

* Last date of registration is 20/09/2017



Department of Chemistry

Saurashtra University

CoE | Center of Excellence
in Drug Discovery



**Shree M. & N. Virani Science
College (Autonomous)**
Atmiya Group of Institution

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CENTER of EXCELLENCE, NFDD Complex, DEPARTMENT of CHEMISTRY, SAURASHTRA UNIVERSITY, RAJKOT

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25th September 2017

9:00 - 9:30 INAUGURATION FUNCTION

Lecture 1	09:30-10:15	Principles of NMR Spectroscopy	N. Suryaprakash
Lecture 2	10:15-11:00	NMR Interaction Parameters	N. Suryaprakash
	11:00-11:30	Tea	
Lecture 3	11:30-12:15	Analysis of ¹ H Spectra : Representative examples	N. Suryaprakash
Lecture 4	12:15-13:00	Decoupling and NOE	N. Suryaprakash
	13:00-14:30	Lunch	
Lecture 5	14:30-15:15	Multinuclear NMR and their Analysis	N. Suryaprakash
	15:15-15:45	Tea	
Lecture 6	15:45-16:30	T1/T2: Mechanisms & Measurements	N. Suryaprakash

26th September 2017

Lecture 7	09:30-10:15	Multiple Quantum NMR	N. Suryaprakash
Lecture 8	10:15-11:00	Polarization Transfer Techniques	N. Suryaprakash
	11:00-11:30	Tea	
Lecture 9	11:30-12:15	2D NMR Techniques	N. Suryaprakash
Lecture 10	12:15-13:00	Analysis of 2D Spectra, COSY, TOCSY, HSQC, etc. with representative examples	N. Suryaprakash
	13:00-14:30	Lunch	
Lecture 11	14:30-15:15	Chemical Applications of NMR: Study of Hydrogen Bonding	N. Suryaprakash
	15:15-15:45	Tea	
Lecture 12	15:45-16:30	Chemical Applications of NMR : Chiral Analysis	N. Suryaprakash

27th September 2017

Lecture 13	09:30-10:15	Solid State NMR : General Concepts, MAS and CP	K.V. Ramanathan
Lecture 14	10:15-11:00	2D Techniques in Solid State	K.V. Ramanathan
	11:00-11:30	Tea	
Lecture 15	11:30-12:15	Applications of Solid State NMR	K.V. Ramanathan
Lecture 16	12:15-13:00	NMR based Metabolomics	H.S. Atreya
	13:00-14:30	Lunch	
Lecture 17	14:30-15:15	3D NMR Techniques	H.S. Atreya
	15:15-15:45	Tea	
Lecture 18	15:45-16:30	Isotope Labelling Techniques	H.S. Atreya

NOTE: VENUE FROM 26TH SEPTEMBER will be, SHREE M & N VIRANI SCIENCE COLLEGE RAJKOT.

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28th September 2017

Lecture 19	09:30-10:15	NMR In Biology - I	H.S. Atreya
Lecture 20	10:15-11:00	NMR in Biology - II	H.S. Atreya
	11:00-11:30	Tea	
Lecture 21	11:30-12:15	Heteronuclear 2D of Biomolecules	H.S. Atreya
Lecture 22	12:15-13:00	Fast NMR Methods	H.S. Atreya
	13:00-14:30	Lunch	
Lecture 23	14:30-15:15	3D NMR and Protein Structure Determination-I	RV Hosur
	15:15-15:45	Tea	
Lecture 24	15:45-16:30	3D NMR and Protein Structure Determination-II	R.V. Hosur

29th September 2017

Lecture 25	09:30-10:15	Nucleic Acids NMR -I	R.V. Hosur
Lecture 26	10:15-11:00	Nucleic Acids NMR -II	R.V. Hosur
	11:00-11:30	Tea	
Lecture 27	11:30-12:15	Basics of Magnetic Resonance Imaging	N.R. Jagannathan
Lecture 28	12:15-13:00	Applications of MRI, including functional MRI	N.R. Jagannathan
	13:00-14:30	Lunch	
Lecture 29	14:30-15:15	In-vivo MR Spectroscopy in clinical research	N.R. Jagannathan
	15:15-16:15	Tea followed by valedictory	

Prof. N. Suryaprakash
Professor, NMR Research Centre
Indian Institute of Science
Bangalore, India

Prof. R. V. Hosur
Department of Chemical Sciences
Tata Institute of Fundamental Research
Mumbai, India

Prof. H. S. Atreya
NMR Research Centre
Indian Institute of Science
Bangalore, India

Prof. N. R. Jaganathan
Head of the department
NMR and MRI facility, AIIMS,
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Prof. K. V. Ramanathan
Professor, NMR Research Centre
Indian Institute of Science
Bangalore, India

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Hon. Vice Chancellor,
Saurashtra University,
Rajkot

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Hon. Vice Chancellor,
Gujarat Vidyapith,
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Registration Form

Full Name

Institute/
Company

Address

Designation

e-mail ID

Contact No.

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No: _____

Bank : _____

Date : _____

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CENTER OF EXCELLENCE
NFDD Complex,
DEPARTMENT OF CHEMISTRY
SAURASHTRA UNIVERSITY,
RAJKOT - 360005

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