

Scope of the Workshop:

"If you are planning for a year, sow rice, if you are planning for a decade, plant trees, if you are planning for lifetime educate people."

Main emphasis of the workshop will be on inculcating the seeds of new technologies into the best transporters (teachers). We have in our mind that if a word is spread in teachers it will be propagated in best way to most appropriate candidates with assurance.

Therefore, to spread the technology and to explore its vital applications we have organised the workshop for teachers only.

Under the umbrella of the program the following objectives are included:

1. Introduction to Arduino H/W and IDE
2. Programming Basics
3. Writing Sketch for Arduino
4. Interfacing analog and digital IOs
5. Serial Communication
6. Interfacing with input and output devices
7. Introduction to IoT
8. Demonstration of IoT
9. Making working project

Address for Communication

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Saurashtra University, Rajkot.
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Phone. No. +91-9426438731

Web Site: <http://www.saurashtrauniversity.edu/>

Organised by

**Department of Electronics,
Saurashtra University, Rajkot**

Date: 25-26 March 2017

Venue: Department of Electronics,
Saurashtra University, Rajkot

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Hon. Vice Chancellor,
Saurashtra University, Rajkot

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Registrar, Saurashtra University, Rajkot

&

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Dean, Faculty of Science &
Head, Department of Statistics,
Saurashtra University, Rajkot

President & Convener

Prof. Haresh N. Pandya
Head, Department of Electronics,
Saurashtra University, Rajkot

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Dr. Divyang Vyas,
Principal, Darshan Institute of Engg. & Technology, Rajkot



Two-day
National
Workshop

Hands on Practice with
Arduino
and
Internet of Things (IoT)

25 & 26 March 2017



Organised by

Department of Electronics,
Saurashtra University
Rajkot

Rajkot

Rajkot is the 4th largest city in the state. City is known for its cleanliness and notable rate of growth. The city was historically capital of then state Saurashtra from 1948 to 1956. Popularly Rajkot is referred to as “Rangilu Rajkot” meaning colourful Rajkot. Rajkot has climate normally pleasant during December to March.

Rajkot hosts number of places of historical and cultural worth including Jubilee Baugh, Mohandas Gandhi High School, Kaba Gandhi no Delo (residence of Gandhiji), Watson Museum, Dolls Museum etc.

Saurashtra is well-known for its hospitality, delicacy of food and rich culture & heritage.

Saurashtra University

Saurashtra University is the first University in Gujarat to be accredited with grade “A” by NAAC in its 3rd cycle of accreditation. The University is also accredited ‘A’ by AAA (by Knowledge Consortium of Gujarat, Gujarat Govt.).The University was established on 23 May 1967 and the campus is now sprawling over 360 acres with good vegetation. The University shelters 30 Post Graduate Departments, 82 PG centres & Institutes; leading 4000 students to PG studies and 298 affiliated colleges extending education to approximately 260000 students in 14 faculties. Besides, the University has its centres of excellence and advanced studies at Bhopal, Dehradun, Mumbai, Bangalore etc. The University has magnificent facilities on its campus for students and faculties. The University has implemented Choice Based Credit System (CBCS) from academic year 2010-11.

Department of Electronics

The Department of Electronics was established in 1987 by the UGC. Currently it is offering three programmes, namely: M.Sc. (Electronics) and M.Sc. (Electronics, Computer and Instrumentation) a Five year Integrated Program and Ph. D. (Electronics).

The department is rich in infrastructure and has well-qualified, active and dynamic faculties.

In quest of excellence, the department continuously organises various activities for enrichment of students and faculties.

Objective

The main objective of this workshop is to create awareness about the implementation and upcoming developments in the field of Embedded Systems by hands on experience along with expert talks. It has been observed that the faculties being involved in teaching and other administrative tasks still strive to read and learn some new topics, but can't get time and platform to have hands on with new technology. We will provide platform for the teachers from UG and PG levels to enhance their knowledge and interact with technical experts and have hands on with the novel technology. They will also get an opportunity to share their technical know-how and knowledge during the hands on practice and making a project. Also they can show their creativity by making a new project which is a part of the program.

Who can participate?

Any Permanent teacher working in Science departments of University or Science College affiliated to any University. **(Number of participants is restricted to 40 only)**

Instructions for Participants:

Teachers from any recognised College/University (UG or PG) are invited to enrol for the program. They will be provided with hardware and software necessary for the program. They will be ignited with the start-up sessions covering how to start, Digital Electronics, fundamentals of programming, Embedded Systems and then will be guided to hands on practice. Teachers need to know some basic maths and electronics. Knowledge of Digital Electronics and Programming will be an advantage.

- No TA/DA will be provided to the participants
- Arrangement for the stay on payment & availability basis, will be made available for few participants.
- All Participants will be provided with (take aways)
 - **Arduino Board, IO board, IoT Board, Power adapter, sensors, connecting wires and participant's kit**

Important Dates

Last Date of Application: 03/03/2017
Date of Acceptance Intimation: 10/03/2017
Registration: 25/03/2017

Registration Form

National Workshop
on

Hands on practice with Arduino and Internet of Things (IoT)

25-26 March 2017

Name of Participant:	
<input type="text"/>	
Subject:	<input type="text"/>
Experience in Years	<input type="text"/>
University/College:	
<input type="text"/>	
Address of Communication:	
<input type="text"/>	
E-Mail:	<input type="text"/>
Contact No.:	Whatsapp No.
<input type="text"/>	<input type="text"/>
Registration Fees	Rs. 500
Fees Details	<input type="checkbox"/> Cash <input type="checkbox"/> Demand Draft
Bank Name:	
DD. No.:	Date:
Accommodation Required?	<input type="text"/> YES/NO
<input type="text"/>	<input type="text"/>
Signature of Participant	Forwarded Through
<input type="text"/>	
Seal	

Demand Draft should be in favour of:

Registrar,
Saurashtra University, Rajkot
payable at Rajkot

NATIONAL WORKSHOP ON FRONTIERS OF NMR SPECTROSCOPY : "NUCLEUS TO NUCLEOTIDES"

One week Training Program delivered by experts with 2 days practical session

15-21, JANUARY, 2016

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



Fee Structure *

Industries

₹ 3500

Faculties

₹ 2500

Students

₹ 2000

- * Including Lunch and Breakfast
- * Excluding Dinner, Boarding and Accommodation
- * Fees should be paid through DD in favour of "Center of Excellence"
- * Last date of registration is 10/01/2016
- * Extra charges for accommodation.



CoE

Center of Excellence
in Drug Discovery



Saurashtra University
Department of Chemistry

www.coenfdd.com | analyticalnfdd@gmail.com | coeanalytical@gmail.com

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

NATIONAL WORKSHOP ON FRONTIERS OF NMR SPECTROSCOPY : "NUCLEUS TO NUCLEOTIDES"

Topics to be covered

- Historical Developments of NMR**
- Introduction to NMR Spectroscopy**
- NMR Instrumentation**
- T1 / T2: Mechanism and Measurements**
- Interpretation of all 1D NMR techniques**
- Sensitivity Enhancement and editing techniques APT, DEPT, INEPT**
- 2D NMR and its applications for small and macro molecules**
- Bio molecular structure and function elucidation by NMR**
- Awareness of solid state NMR**
- Multinuclear NMR**
- Fourier Transformation NMR**
- Decoupling and NOE**
- Application of NMR in Chiral Analysis**
- Liquid Crystal NMR**
- Polymer NMR study**
- Protein dynamics by NMR**
- NMR in Biology**
- NMR structure determination of bio molecules**
- Fast 2D and 3D methods**
- Isotopic Labeling**
- 2 Days Practical Session on NMR Equipments**
- Few problems sets and discussion about solution**

:: Speakers ::

Prof. C. L. Khetrapal
Centre of Biomedical Research
Lucknow
Uttar Pradesh - 226 014, India

Dr. Uday Prabhu
Application Scientist
Bruker India Pvt. Ltd.
Mumbai (Maharashtra), India

Prof. N. Suryaprakash
Professor, NMR Research Centre
Indian Institute of Science
Bangalore - 560 012, India

Prof. H. S. Atreya
NMR Research Centre
Indian Institute of Science
Bangalore - 560012, India

Patrons

Prof. Pratapsinh Chauhan
Hon. Vice Chancellor,
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Gujarat Vidyapith,
Ahmedabad

Convener

Prof. P. H. Parsania
Prof. and Head
Department of Chemistry
Saurashtra University,
Rajkot - 360 005

Organizing Secretary

Prof. H. S. Joshi
Professor
Department of Chemistry
Saurashtra University,
Rajkot - 360 005

Co-convener

Dr. Bipin Pandey
Director, Center of Excellence
Department of Chemistry
Saurashtra University
Rajkot - 360 005

Joint Secretary

Dr. Ranjan Khunt
Asst. Professor
Department of Chemistry
Saurashtra University,
Rajkot - 360 005

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Dean
Faculty of Science
Saurashtra University,
Rajkot - 360 005

Prof. S. H. Baluja
Dr. U. C. Bhoya
Dr. M. K. Shah
Dr. Y. T. Naliyapara
Dr. F. D. Karia
Dr. Jignesh Parsania

Dr. R. B. Kakadiya
Dr. H. J. Jebaliya
Dr. M. R. Patel
Mr. N. R. Kharecha

Workshop Secretariat

Mr. Yashwantsinh Jadeja
Project Co-ordinator
Center of Excellence
Department of Chemistry
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Mr. Vaibhav Shah
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E-mail

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NATIONAL WORKSHOP ON FRONTIERS OF NMR SPECTROSCOPY : "NUCLEUS TO NUCLEOTIDES"

One week Training Program delivered by experts with 2 days practical session



15 - 21, JANUARY, 2016 : CENTER OF EXCELLENCE, NFDD Complex, SAURASHTRA UNIVERSITY, RAJKOT

Registration Form

Full Name

Institute/
Company

Address

Designation

E-mail ID

Contact No.

DD/Cheque/Cash : _____

No: _____

Bank : _____

Date : _____

Address

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

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◆ NISHANT KHARECHA (BDM)
78745 44669

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◆ analyticalnfdd@gmail.com

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	₹ 2500	₹ 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

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**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

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

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 Labeling Techniques	H.S. Atreya

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

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

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,
New Delhi, India

Prof. K. V. Ramanathan
Professor, NMR Research Centre
Indian Institute of Science
Bangalore, India

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Professor and Head
Department of Chemistry
Saurashtra University,
Rajkot - 360 005

Co-convener

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I/C Principal
Shree M & N Virani
Science College
Rajkot - 360 005

Organizing Secretary

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Asst. Professor
Department of Chemistry
Saurashtra University,
Rajkot - 360 005

Joint Secretary

Prof. Shipra Baluja
Professor
Department of Chemistry
Saurashtra University,
Rajkot - 360 005

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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

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DEPARTMENT OF CHEMISTRY
SAURASHTRA UNIVERSITY,
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A/C No. 3961731221
IFSC Code: CBIN0281313

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- ◆ analyticalnfdd@gmail.com
- ◆ sdtala@vsc.edu.in
- ◆ aspatel@vsc.edu.in

NMR School – 2018

(11th to 13th July)

Sponsored by

GUJ-COST



Jointly Organized by



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BENGALURU**

**Department of Chemistry
&
Center of Excellence
Saurashtra University**

**Shree H. N. Shukla
Group of Colleges**

Chief Patron

Prof. N. R. Dave
Vice Chancellor, SU

Key Note Speaker

Prof. N. Suryaprakash
IISc Bengaluru

Resource Persons

**Prof. H. Atreya
Prof. K. V. Ramnathan
Prof. S. Subramanian**

Invitees

Dr. Dhiren Pandya
Registrar
Saurashtra University

Dr. Mehul Rupani
Dean, Faculty of Science
Saurashtra University

Prof. H. S. Joshi
Prof. & Head
Department of Chemistry
Saurashtra University

:: Venue ::

**NFDD Auditorium
Department of Chemistry
Saurashtra University, Rajkot**

Program Schedule

Time	11 th July	12 th July	13 th July
8:30 to 9:30	Registration & Break Fast	Break Fast	Break Fast
9:30 to 10:00	Inaugural Ceremony	-	-
10:00 to 11:30	Basics of NMR & 1D NMR	Protein NMR	Principals of MRI
11:30 to 11:45	Tea	Tea	Tea
11:45 to 13:15	Basic & Analysis of 2D NMR	NMR Based Metabolomics	Applications of MRI
13:15 to 14:30	Lunch	Lunch	Lunch
14:30 to 16:00	Principals of Solid State NMR	Instrument Demonstration	Valedictory Function
16:00 to 16:15	Tea	Tea	-
16:15 to 17:45	Applications of Solid State NMR	Instrument Demonstration	-

:: Organizing Convener ::

**Dr. R. C. Khunt (EC-Member, NMRS)
Asst. Professor, Department of Chemistry
Saurashtra University**

:: Local Organizing Committee ::

**Prof. Shipra Baluja
Dr. M. K. Shah
Dr. F. D. Karia**

**Prof. Y. T. Naliyapara
Dr. U. C. Bhoya
Dr. MinaxiMaru**

:: For Application Form ::



Visit: <http://nmrs.iisc.ernet.in/ws.htm>

(Preference will be given to Faculties, Research and Post-Graduate students applying from the Gujarat region)