Event Details

Important Dates

Apply Before: 31st July,2017.

Commencement of Course: 16th August,2017.

Enrollment Fees

- For Faculties: 3500 INR
- PG/Ph.D Students:2500 INR
- Industry People: 4000 INR
- UG Students: 1500 INR

Enrollment Fees are non-refundable. The course materials will be provided to all the registered participants.
Fees can be paid by Demand Draft/cheque drawn in favour of "Ahmedabad University" payable at Ahmedabad.

For further details, contact:

Brijesh Soni (JRF)
213,Communication lab,SEAS
Ahmedabad University.
M: 8905409657

Email:
sonibrijesh92@gmail.com

Website:
Click Here

Resource Persons

- Dr. Miguel López-Benítez, University of Liverpool, UK
- Dr. S.N. Merchant, IIT Bombay
- Dr. Y.N. Trivedi, Nirma University
- Dr. Mehul Raval, Ahmedabad University
- Dr. Dhaval Patel, Ahmedabad University

Program Committee

- Dr. Dhaval Patel, Convener
- Dr. Mazad Zaveri, Member
- Dr. Anurag Lakhlani, Member
- Mr. Pratik Trivedi, Member

Organizing Committee

- Dr. Mehul S Raval, Convener
- Prof. Sanjay Chaudhary, Member
- Dr. Ratnik Gandhi, Member
- Dr. Mazad Zaveri, Member

Lab Coordinators and Local Hospitality

- Mr. Brijesh Soni, JRF, SEAS
- Mr. Vaibhav B Joshi, PhD scholar, SEAS

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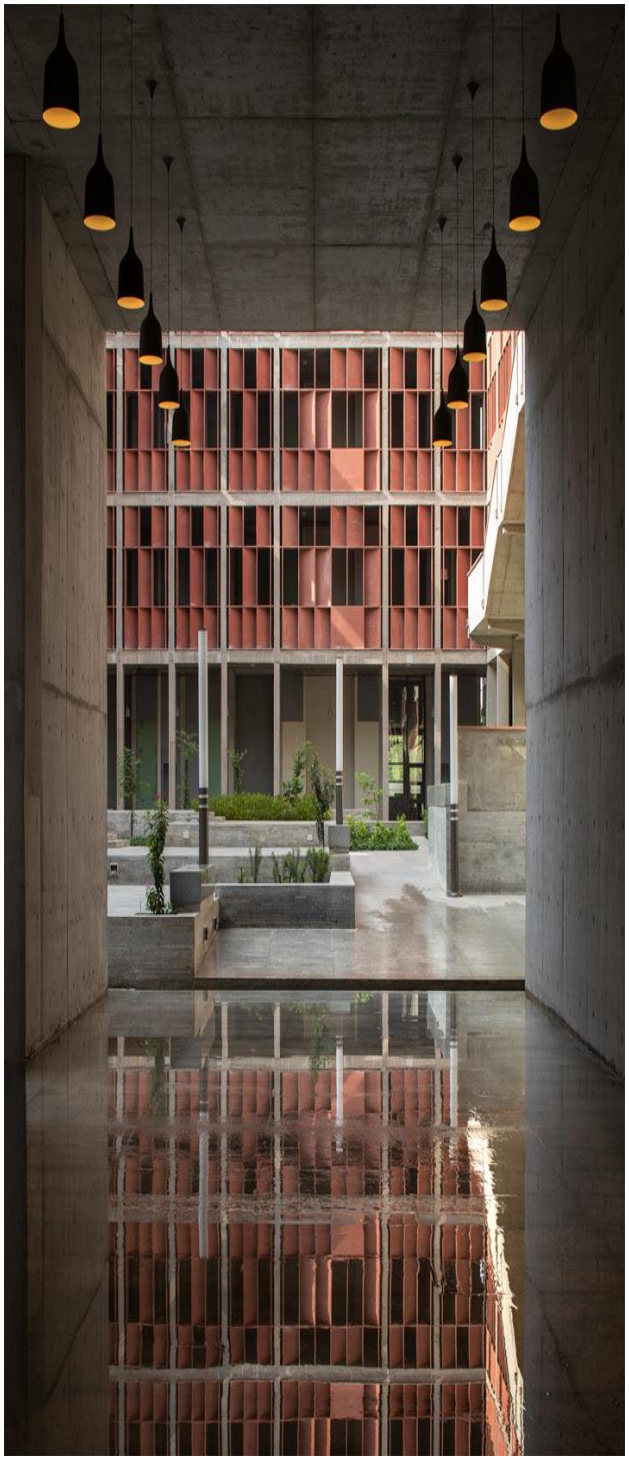

Program Overview

The Program includes cognitive radio (CR), Spectrum Sensing techniques like energy detection and improved energy detection, Imperfect Spectrum sensing, Machine learning and OFDM along with three hours of respective lab session on USRP and GNU Radio to further enhance and consolidate understanding of the participant.

Objective Of The Program

The program intends to equip participants with following objectives:

1. Knowledge of USRP and GNURadio
2. Cognitive Radio and its applications
3. Spectrum Sensing & Machine learning algorithms
4. OFDM followed by 3 hours of lab session
5. GNURadio BlockSet Creation
6. Alamouti encoding for MIMO systems
7. Non-Gaussion Noise and BER Plot

For Whom?

This Faculty Development Program is especially intended to provide with an in-depth technical exposure of USRP and GNU Radio and their utilities in wireless research to the faculty members of engineering colleges, research scholars in wireless communication, post-graduate students, and engineers. Further few interested undergraduate students with good academic record, who would like to further explore the latest research in current wireless systems, can also be a part of this program.

Timing	16th August	17th August	18th August	19th August	20th August
09:30AM-11:00AM	Cognitive Radio	Non Parametric Sensing#1	Machine Learning Algorithms	Orthogonal Frequency Division Multiplexing(OFDM)	MIMO Alalmouti encoding monte carlo simulations
11:00AM-11:30AM	Coffee/Tea break	Coffee/Tea break	Coffee/Tea break	Coffee/Tea break	Coffee/Tea break
11:30 AM-01:00PM	Spectrum Sensing Algorithm and Analysis	Non Parametric Sensing#2	Spectrum Duty Cycle and Imperfect Sensing	Orthogonal Frequency Division Multiplexing(OFDM)	Signal processing blockset creation in GNURADIO
01:00 PM-02:00PM	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
02:00 PM-05:00PM	USRP and Monte Carlo Simulations of Spectral Sensing	Monte carlo simulation on non parametric sensing	Machine Learning Algorithms And Spectrum Data Acquisition	OFDM using USRP and GNURADIO	Gaussian and Non-Gaussian Noise BER Plot

School of Engineering and Applied Science

AHMEDABAD UNIVERSITY

APPLICATION FORM

Faculty Development Program on

"Advanced Wireless Communication Using USRP/GNU Radio"

August 16-20,2017

(As a Part of DST-UKIERI Research Project)

1. Name Mr/Ms.....

2. Designation.....

3. Organization.....

4. Contact.....

5. Email.....

6. Experience in relevant area

Academic.....

Industry.....

7. Cheque/D.D No.....

Dated.....Bank.....

Date:

Signature of Participant