

## IMPORTANT DATES

Last date of Registration : 10<sup>th</sup> December, 2013

Intimation of Selection : 12<sup>th</sup> December, 2013

## REGISTRATION FEES

Research Scholars : Rs.100/-

Faculty Members (ISTE) : Rs. 150/-

Faculty Members (NON-ISTE) : Rs. 200/-

Professionals : Rs. 250/-

Above fees includes Registration kit, Refreshment, Lunch and Handouts.

## HOW TO REGISTER ?

Application duly filled in the prescribed format along with the Demand Draft of applicable registration fees drawn in the favor of "**Vadodara Institute of Engineering**" (**Payable at Vadodara**) should be sent to institute on or before due date. Interested candidate may also pay the registration fees in cash before due date.

Registration form can be photocopied or downloaded from the institute website for more registration.

## TRANSPORTATION

Travel expenses will have to be borne by the participants themselves or by their sponsoring organization. However, the institute will provide bus facility to participants for local transportation.

## ORGANISING COMMITTEE

### PATRON

PROF. (DR.) JAYESHKUMAR S. PATEL

### CONVENER

PROF. ISHA GAUTAM

### CO-ORDINATORS :

PROF. ALPA H. PATEL

PROF. NAVNEET KUMAR

### COMMITTEE MEMBERS

PROF. ARSHIYA M. SAIYED

PROF. ASHOK S. PATEL

PROF. BHAVIK B. BRAMBHATT

PROF. DIPALI B. BHATT

PROF. RICHA M. TRIPATHI

PROF. RUJUTA N. BHATT

PROF. SHWETA H. OJHA

## CORRESPONDENCE

### PROF. VIKAS KATHIYARA

Mobile No.: 089803 99066

Email: vikaskathiyara.@gmail.com



### Vadodara Institute of Engineering

Vadodara-Halol Toll Road,

At : Kotambi Ta:Waghodia

Dist: Vadodara-391 510

Phone: 0265-3915900-04

Fax: 3915905

E-mail : vierorgin@yahoo.com

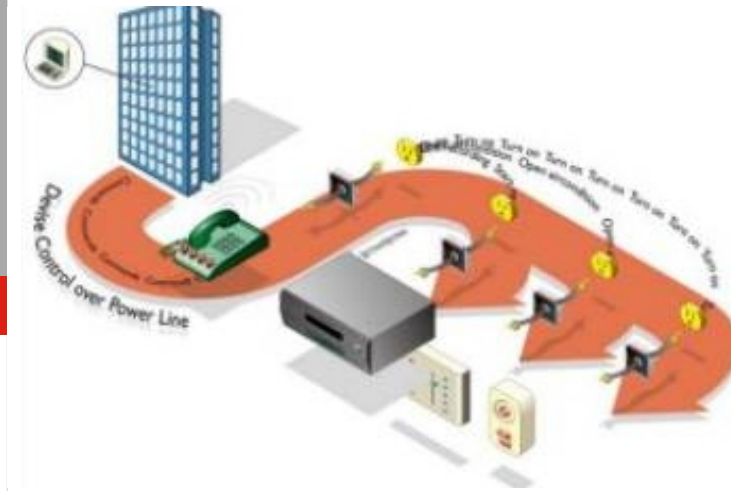
Website : www.vier.org.in

As a part of **VIER Seminar Series**  
(16<sup>th</sup> to 20<sup>th</sup> December, 2013)

ONE DAY STATE LEVEL SEMINAR ON

RECENT ADVANCEMENT IN

# POWER LINE COMMUNICATION AND EMBEDDED SYSTEM



17<sup>TH</sup> DECEMBER, 2013

Supported by :



Gujarat Council on Science & Technology  
(GUJCOST), Gandhinagar

Organized by : **Electronics & Communication Department**



**Vadodara Institute of Engineering**

Kotambi, Dist. Vadodara – 391510  
www.vier.org.in

## ABOUT THE INSTITUTE

The institute was established in June 2009 with an objective to provide qualitative and value based education to the students. The institute is approved by All India Council for Technical Education (AICTE), New Delhi and affiliated to Gujarat Technological University (GTU), Ahmedabad.

The institute is located in pleasant and peaceful environment, 19 km away from Vadodara Railway Station and 13 Km away from Vadodara Airport. The beauty of the campus is that it is designed with a great landscape with a concept of water and land conservation across the campus area of 31 acres. The campus consists of separate department wise buildings of their own kind. The institute has excellent infrastructure, well equipped laboratories, rich library and all other essential resources that provide very good academic environment. The institute is one of the premier emerging institutions in the country offering six degree engineering programmes viz. Mechanical, Electrical, Computer, Electronics & Communication, Information Technology and Civil Engineering.

## ACADEMIC ACHIEVEMENT

The institute holds the pride for achieving a milestone of first ever-technological institution to stand first in Vadodara and second in Gujarat in GTU result of B.E. Final year during academic year 2012-2013.



## ELECTRONICS & COMMUNICATION DEPARTMENT

The Electronics & Communication engineering branch offers undergraduate program. The research activity includes fundamental research & projects. The branch regularly conducts technical workshops, expert lectures & industrial visits. Students are offered customized training program and projects to cater the demand of industry.

## OBJECTIVE OF SEMINAR

Power Line Carrier (PLC) is a popular communication technique that uses the existing power wiring (120 V, 240 V, etc) to carry information. It is a kind of "wireless" means of communication, because technology can supersede the installation of dedicated wiring in some applications. Since power lines have been established widely, PLC does not require a separate communication line and can be easily installed. And it also can be connected to various networks through a backbone network. Moreover, devices can access a

system easily by plugging the power cord into an electrical outlet.

Therefore, PLC has been considered as one of the most appropriate technologies for smart meter-reading purposes in home. An embedded system is a microprocessor-based system that is incorporated into a device to monitor and control the functions of the components of the device. An embedded system used in a device (for instance the embedded system in washing machine that is used to cycle through the various states of the washing machine) is programmed by the designers of the system and generally cannot be programmed by the end user.

## CONTENTS OF SEMINAR

- ◆ Components of Power line communication and Embedded Systems.
- ◆ Advancement in Power Line Communication and Embedded System.
- ◆ Challenges in PLC such as Spread spectrum and Digital signal processing .
- ◆ Power Line Communication and Embedded System Applications.

## RESOURCE PERSONS

Experts from reputed technical & research organisations and industries

## WHO CAN REGISTER ?

- ◆ Faculties members from Degree and Diploma Engineering Institutes.
- ◆ Persons from industry and Research Organisation.
- ◆ Research scholar -PG and PhD students.