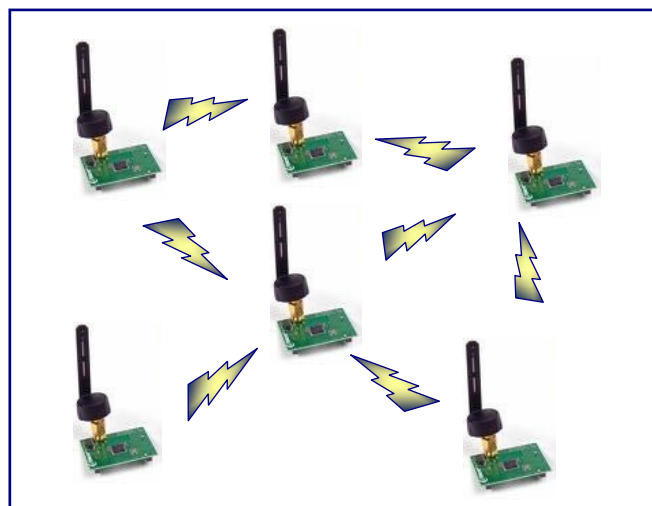




**VIT**  
**University**  
(Estd. u/s 3 of UGC Act 1956)  
Vellore-632 014, Tamil Nadu, India.  
www.vit.ac.in



**Two Day Workshop on  
Wireless Sensor Networks  
Focus on ZigBee and Automotive Applications  
26<sup>th</sup> – 27<sup>th</sup> March 2010**



**Organized by**

**TIFAC - CORE in AUTOMOTIVE INFOTRONICS**  
(Sponsored by Department of Science and Technology, Govt. of India.)

**Co - ordinators**

**Dr. K. Ganesan, Director, TIFAC CORE & Senior Professor, SITE**  
**Mr. C. Sasikumar, Development Engineer**

**TIFAC-CORE IN AUTOMOTIVE INFOTRONICS @VIT**

- State of the art advanced engineering centre for research, consultancy and manpower training in Automotive Infotronics is established at VIT University promoted by TIFAC (Technology Information Forecast and Assessment Council), under the Mission REACH program.
- Offers a full time PG program in Automotive Electronics in association with School of Electronics Engineering to provide industry ready engineers.

**Background**

- Low cost, low power, easy to implement, large scale wireless sensor networks are enabling innovative unlimited potential for numerous application areas including automotive, environmental, medical, military, transportation, entertainment, crisis management, homeland defense, and smart spaces.
- It is also having profound impact on the Embedded System market and such systems can revolutionize the way we live and work.

**Programme**

This workshop aims at implementation of simple RF communication using MSP 430 and forming a Wireless network with IEEE 802.15.4 compatible RF system on chip CC2430 using ZigBee protocol.

**Topics Covered**

- ✓ Low Power Wireless Sensor Networks and its Applications
- ✓ MSP430 Programming
- ✓ IAR workbench IDE Tool
- ✓ SimplicTI
- ✓ The IEEE 802.15.4 Standard – the basics
- ✓ TI CC2430/CC2530 architecture and programming
- ✓ ZigBee Protocol concepts
- ✓ ZigBee stack – Profiles, Clusters
- ✓ OSAL and HAL
- ✓ MAC
  - Addressing Schemes
  - Topology, Beacon vs. non-Beacon, Superframe
- ✓ Binding and Routing
- ✓ ZigBee network demo
  - Point to Point
  - Star topology
  - Mesh topology
- ✓ Automotive Applications demo

**Participation is open to:**

- Design & Development engineers
- Faculty / Students

**REGISTRATION FEES:**

- Rs. 4000 per delegate from Industry
- Rs. 2000 per delegate from Institute (Faculty)
- Rs. 1000 per delegate from Institute (Student)

Registration charges include Course Material, Lunch & Snacks. The number of participants is limited to 30 based on first come first serve. Accommodation can be arranged in our Guest House on request based on first come first serve as per Tariff.

**Tariff per day: Payment through cash**

Sl. No.	Type	Tariff Rs.
1	Main Guest House A/C	1300.00
2	Guest House (Annex) Deluxe A/C	1100.00
3	Guest House (Annex) Standard A/C	900.00
4	Guest House (Annex) Non A/C	700.00

Payment through DD drawn in favor of "TIFAC CORE, VIT University", Payable at Vellore.

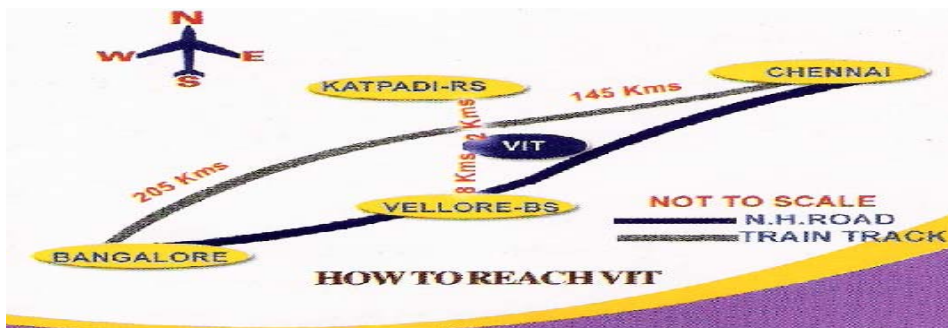
**Venue:**

Technology Tower  
7<sup>th</sup> Floor, VIT

**Time:**

- 26<sup>th</sup> March 2010 : 10.00 – 18.00 Hours
- 27<sup>th</sup> March 2010 : 09.30 – 17.00 Hours

**HOW TO REACH VIT**



**Format for Registration confirmation**  
**Two Day Workshop on**  
**Wireless Sensor Networks**  
**Focus on ZigBee and Automotive Applications**  
**26<sup>th</sup> – 27<sup>th</sup> March 2010**

Name: -----

Designation: -----

Organization: -----

Address: -----

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Phone: -----Mobile-----

Fax: -----e-mail: -----

DD Details: -----

Please complete and mail or fax us above form **before 22<sup>nd</sup> March 2010**

For details about our centre, visit our web site [www.vit.ac.in/tifaccore/](http://www.vit.ac.in/tifaccore/)

**For Further Details Please Contact:**

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