

ABOUT THE CSIR

CSIR is recognized as one of the worlds largest publicly funded R&D Organizations having linkages to academia, R&D Organizations and Industry. It runs 37 Laboratories and 39 field stations or extension centers spread across the nation with a collective staff of over 17000. It is mainly funded by the Ministry of Science and Technology; it operates as an autonomous body registered under the registration of Societies Act of 1960. The research and development activities of CSIR includes Aerospace, Structural Engineering, Ocean Science, Life Science, Metallurgy Chemicals, Food, Petroleum, Leather and Environment. CSIR aims to provide industrial competitiveness, social welfare, strong S&T base for strategic sectors and advancement of fundamental knowledge.

ABOUT THE INSTITUTION

Jansons Institute of Technology (JIT) is a world class Engineering College having a vision of being in the forefront of technical education and research worldwide. JIT is the second venture of the Jansons Foundation in the field of education. JIT offers Bachelor's Degree programmes in CSE, ECE, EEE, Mechanical Engg, Civil Engg and Masters Degree in VLSI, Power Electronics & Drives and Computer Science & Engineering in its most modern state-of-the art campus located 25 km away from Coimbatore on the Coimbatore-Chennai National Highway in Tamilnadu.

JIT has been promoted by the Jansons Business Group, a textile major with significant presence in granites and health care.

ABOUT THE COURSE

Wireless Sensor Networks (WSNs) are relatively new and rapidly developing technology that has a wide range of applications including monitoring military activity in remote areas and force protection, environment sensing, agriculture, public health and home applications. Small size and low cost sensor networks have been developed which are capable of collecting, analyzing and transmitting information to a central processor node for further analysis and report generation.

These sensors are equipped with wireless interfaces that will communicate with each other to create a network. The security challenges must be tackled at multiple levels through different protocols and mechanisms. The workshop concludes with an analysis of outstanding engineering and scientific challenges in order to achieve fully flexible, secured, ad hoc, self organizing and scalable real time application sensor networks.

COURSE TOPICS

1. Wireless Sensor Networks – Overview
2. Security Issues, Challenges and Protocols in WSN
3. Network Topologies and Routing Techniques
4. Energy Optimization and Deployment Techniques
5. Aggregation, Localization and Target Tracking
6. Congestion Control Techniques, Coverage Metrics and Random Graph Model
7. Real Time Applications based on Wireless Sensor Networks:
 - a. Industrial Automations
 - b. Military Applications
 - c. Environmental Applications
 - d. Health and Home Applications
 - e. Commercial Applications
8. Ongoing Researches in Sensor Networks

CSIR SPONSORED



Two Days National Level Workshop

on

Wireless Sensor Networks – Target Tracking Based on Real Time Applications

23.08.2017 & 24.08.2017



CONVENER
Prof.A.Rathika

ORGANIZING SECRETARY
Prof.V.Kalpna

CO-ORDINATORS
Prof.M.Pavithra
Prof.R.Suganya

Organized by
Department of Computer Science and Engineering
JANSONS INSTITUTE OF TECHNOLOGY
An ISO 9001-2015 Certified Institution,
Approved by AICTE & Affiliated to Anna University, Chennai.
Karumathampatti, Coimbatore – 641 659
Ph:0421-2264900, Fax:0421-2264999
Website: www.jit.ac.in.

REGISTRATION DETAILS

UG and PG Students: **Rs. 500/-**

Research Scholars/Faculties/ Industry Participants: **Rs. 600/-**

The course fee includes course material, lunch and refreshment. Registration for the course can be made by sending the duly filled registration form along with a DD drawn in favor of "Jansons Institute of Technology" payable at Coimbatore.

IMPORTANT DATES

Last date for receipt of application : **14/08/2017**

Selection intimation by Email : **18/08/2017**

Confirmation by the participants : **19/08/2017**

RESOURCE PERSONS

The experts in Wireless Sensor Networks from various Educational Institutions and Universities will handle over the sessions.

ELIGIBILITY

UG & PG students, Research scholars, Faculty members, Engineers from R&D Institutions and Industry participants.

DECLARATION

The above information is true to the best of my knowledge. I agree to abide by the rules and regulations governing the course. If selected, I shall attend the course for the entire duration. I also undertake the responsibility to inform the coordinator in case I am unable to attend the course.

Place:

Date:

Signature of the applicant

SPONSORSHIP CERTIFICATE

Dr./Mr./Ms. _____, of _____ (Dept) is permitted to attend CSIR Sponsored Two Days National Level Workshop on "Wireless Sensor Networks – Target Tracking based on Real Time Applications", organized by the Department of Computer Science and Engineering, JIT Campus, during 23rd and 24th of August 2017.

Signature of the
Sponsoring authority

Office Seal

Place:

Date:

Registration form along with DD to be sent to:

Prof.V.Kalpana
Assistant Professor
Department of Computer Science and Engineering,
Jansons Institute of Technology,
Karumathampatti,
Coimbatore – 641 659.
Ph: 9688496348
Email: csecsirws@jit.ac.in

**For more details and registration form, log on to
www.jit.ac.in**

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Sponsored

*Two Days National Level Workshop
on*

**Wireless Sensor Networks – Target
Tracking based on Real Time
Applications**

Registration Form

Name

(in block letters) :

Age

:

Sex

:

Qualification

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Designation

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Department

:

Organisation

:

Address for

Communication :

:

Phone - Office

:

Mobile

:

E-mail

:

Payment Details

D.D. No & Date :

Amount :

Bank Name :