

## Course Fee

Participants	Course Fee
PG Students	Rs. 4000/-
Research Scholars / Faculty Member	Rs. 6000/-
Scientists/ Industry	Rs. 8000/-

\*The course fee includes charges for course registration & lunch.

## Who Can Attend?

PG Students, Research Scholars, Faculty members, Scientists and persons from industries.

## How to Apply

Please fill-up the registration form and deposit the registration fee online to A/C No. 0986101009746 of Canara Bank, IFSC Code: CNRB0000986, Name of A/C holder: Registrar, IIT (ISM), Dhanbad and email the filled up registration form to the course coordinator by 20<sup>th</sup> September, 2018. Participants can also send the hard copy of the registration form along with the Demand Draft (DD) drawn in favor of "Registrar, IIT(ISM) Dhanbad", payable at Dhanbad.

## Contact Details

Prof. Chiranjeev Kumar  
Course Coordinator  
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## IIT (ISM), DHANBAD

Short-Term course

Wireless Network Protocol Development and Simulation using NS-3

13-17 Oct 2018

### REGISTRATION FORM

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Organization: \_\_\_\_\_

Gender: \_\_\_\_\_

Educational Qualification: \_\_\_\_\_

Address for Correspondence: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Mobile No: \_\_\_\_\_

E-mail ID: \_\_\_\_\_

Experience: \_\_\_\_\_

Teaching: \_\_\_\_\_

Others(Specify): \_\_\_\_\_

Details of Demand Draft/Online Payment:

Amount: \_\_\_\_\_

DD No. / Online Trans. ID: \_\_\_\_\_

Date of Payment: \_\_\_\_\_

Date: \_\_\_\_\_ Signature of Applicant

\_\_\_\_\_

## Short -Term Course

on

## Wireless Network Protocol Development and Simulation using Network Simulator NS-3

13-17 Oct, 2018



At  
IIIF, NBCC Center, Okhla Phase – I, New Delhi

Organized by

Department of Computer Science & Engineering

INDIAN INSTITUTE OF TECHNOLOGY (ISM) DHANBAD

[www.iitism.ac.in](http://www.iitism.ac.in)

## Importance and Scope

Network Simulator (ns-3) is an open-source event-driven simulator designed specifically for research in computer communication networks. This is the most widely used simulator used by engineers and researchers in academia and industry for simulation of wired and wireless networks. This short term course on Wireless Network Protocol Development and Simulation using Network Simulator NS-3 is laboratory oriented, in which hands on training will be given. The main focus is on participants become capable enough to write their own simulation model, test them and draw conclusions.

## Course Contents

The short term course aims to include the following topics (**Mainly Hands-on session**):

- Installation of NS-3, Migration from NS-2 to NS-3, Add New Module in NS-3
- Wired Networking - P2P, CSMA Network Simulation
- Wifi Network - PHY & MAC Layer Configuration
- Adhoc Routing Configuration in NS-3
- Performance comparison of MANET Routing protocols
- Mobility Model, Energy Model
- Graph Analysis, NetAnim, Trace File Analysis, Case Studies
- Implementing new routing protocol for WSN.

## About IIT (ISM) Dhanbad



Indian Institute of Technology (Indian School of Mines) Dhanbad, a fully residential university is situated in Jharkhand, India and it was established in 1926 on the model of Royal School of Mines, London. Apart from earth and mineral science departments of national and international reputation, the institute has expanded with diverse branches in engineering including Computer Science and Engineering, Electronics Engineering, Electrical Engineering, Mechanical Engineering, and also Master of Business Administration.

## About Department



The Department of Computer Science and Engineering was established in the year 1997 to keep abreast with the recent technological advancements in the field of Computer Science and Information Technology.

The department offers two under graduate courses namely B. Tech in CSE and Dual Degree in CSE. The admission of these two courses is through JEE Advanced. The department also offers two 2-Years M.Tech course in CSE and CSE with Specialization of Information Security and 3-Years M.Tech (CSE) at IIT Kolkata & New Delhi. The department offers Ph.D in CSE and presently more than 70 full time scholars are working in various research topics. The department runs several sponsored projects from the government organizations like DST, DRDO, CSIR, MIT and UGC. The department organized International Conferences RAIT-2016, RAIT-2014, RAIT-2012, National Seminars RAIT 2009 and RAIT 2007. At regular basis, department used to conduct workshop in the filed of Computer Science. To know more about the department, please visit at [http://iitism.ac.in/index.php/computer\\_science](http://iitism.ac.in/index.php/computer_science)

## About Location

The short term course will be organized at IIF (Industry Institute Interaction Facility) New Delhi. IIF is run by the IIT(ISM Dhanbad and it is located at NBCC Centre, Okhla Phase - I, New Delhi.