

Program Committee

Patron	: Dr. M.K. Mishra, VC, BIT, Mesra
Technical Advisor	: Dr. G. Sahoo and Dr. S. Dutta
Workshop Coordinator	: Dr. Amritanjali
Treasurer	: Dr. I. Snigdh

Organizing Committee Members:

Dr. K.S. Patnaik, Dr. Sudip Sahana, Dr. Sanchita Paul, Dr. S. Mohapatra, Prof. I.D. Ram, Prof. Akriti Nigam.

Facilitors : Ms. Naghma Khatoon, Mr. Rohit Kumar, Mr. Ashish Kumar Sinha.

Scope and Objective

The objective of this short term course is to enrich the participants with the working of popular network simulation tools NS-2 and NS-3, which are used by people from different areas such as academic researchers, industrial developers, and Quality Assurance to design simulate, verify, and analyze the performance of different network protocols.

We mainly target the following topics.

- NS-2 / NS - 3 Architecture
- Wireless Network Creation (MANET & WSN)
- Trace File Analysis
- Mobility Model
- Energy Model
- Clustering
- New Protocol Implementation
- Applying Patches to NS-3
- Security Model

Who can attend?

- PG students, Research Scholars, Faculty Members and Industry People



Contact Details:

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Department of Computer Science and Engineering

Birla Institute of Technology, Mesra
Ranchi-835215, Jharkhand

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National Workshop on WIRELESS NETWORK SIMULATION USING NS-2/NS-3

Sponsored by:

**Technical Education Quality
Improvement Programme**

Organized by:

**Department of Computer Science
and Engineering, Birla Institute of
Technology, Mesra.**

PROGRAMME DATES

13th-18th October, 2016

VENUE

BIRLA INSTITUTE OF TECHNOLOGY MESRA

About the Institute

The Birla Institute of Technology (BIT), Mesra, Ranchi was founded by the Philanthropist, Industrialist Mr. B.M. Birla, in the year 1955, as part of his lifelong commitment towards building a technologically advanced and industrially strong India. The achievements of the Institute, both in terms of research and excellent standards of academic programmes led to its attaining the status of a Deemed University under the UGC Act of the Government of India, in 1986, and one of the top technical institutes of the country today.

BIT offers undergraduate, postgraduate as well as doctoral level programmes in all major branches of engineering and technology, architecture, pharmaceutical sciences as well as management. The Institute has laterally expanded through establishment of several extension centres, both in India and abroad. In India BIT have Extension centres at Noida, Kolkata, Ranchi, Jaipur, Naini (Allahabad), Deoghar, Patna. BIT is the first Indian Institution, having status equivalent to a University that ventured to establish full-fledged campus outside India. International centres are located at Muscat (Sultanate of Oman) and Ras-Al- Khaima(UAE).

About Department of Computer Science and Engineering

The Department of CSE was established in the year 1983. Now the department is recognized as one of the leading departments in the country with infrastructure and facilities to match the very best in the country. The department remains committed towards its mission which is twofold. One is to provide students with the fundamental knowledge and problem solving skills in Computer Science required for a fulfilling carrier. The other goal is to create and disseminate knowledge to improve Computer Science research, education and practice.

The department is equipped with seven laboratories with over 350 computers available for conducting laboratory sessions in diverse topics like in programming languages: (i) C, C++, Java, Oracle.(iii) Matlab for Soft Computing

and Image Processing (iv) Rational Rose for Software Engineering and (iv) Laboratories for Networking, Multimedia, Simulation, Parallel Computing etc . All the Laboratories are internally networked allowing students to remotely access any particular resource at any point in time. The Department has recently acquired a state of the art Fujitsu HPC System, which will be leveraged to fuel multiple domains of research. The system will also be the backbone of the hands on session proposed as a part of the workshop. The system additionally has facilities to deploy a private cloud environment if required.

How to Apply:

The participants need to send a crossed demand draft (DD) drawn in favor of Birla Institute of Technology Mesra, payable at Ranchi. Filled in application form in the prescribed format, duly signed and sponsored by appropriate authorities together with demand draft should reach the coordinator by speed post to reach us on or before 8th October, 2016. However it is mandatory for the participants to mail the scanned copies of application form and demand draft by 7th of October, 2016 to itusnigdh@bitmesra.ac.in, so that candidates will be intimated through e-mail.

Registration Fee Particulars

Candidates	BIT Mesra and Extension	Academia	Industry
Registration Charges	500 INR	1000 INR	2000 INR

Accommodation

Suitable accommodation will be provided to outstation candidates in the guest house on prior request. The room tariffs are as follows.

BIT Guest House: Rs. 750/day (Non AC, Double Bed), Rs.1000/day (AC, Double Bed).

RS Hostel: Rs. 200/day (only for male candidates)

Girls Hostel: Rs. 230/ day

How to reach

Ranchi is well connected by Rail, Air and Road. BIT Mesra is located 16 km from Ranchi Railway Station, 22km from Hatia Railway Station and 25km from Birsra Munda Airport.

Wireless Network Simulation using NS-2/NS-3

13th -18th Oct. 2016

REGISTRATION FORM

1. Name (BLOCK LETTERS):
2. Designation :
3. Organization:
4. Date of birth:
5. Address for communication:
Pin Code: Phone:
Fax: E-mail:
6. Academic qualification:
7. Specialization:
8. Experience (in years):
9. Gender: (a) Male (b) Female
10. Accommodation Required: YES/ NO

Place: _____

Date: _____

Signature of the applicant
Recommended and Forwarded

Signature of the Sponsoring Authority