Sinhgad Technical Education Society’s  
SKN  
Sinhgad Institute of Technology & Science  
Lonavala

Department of Electronics and Telecommunication Engineering Organizes

Four Days National Level FDP On

“Network Simulator”  
[NS2 & NS-3]  
[7th to 10th October, 2016]

Sinhgad Institutes
SKN Sinhgad Institute of Technology and Science Lonavala,  
Off Pune-Mumbai Expressway,  
Gat No. 309/310, Kusgaon (Bk), Lonavala 410 401.  
Phone: (O) 02114 304 633

About STES
Sinhgad Technical Education Society (STES) was set up in August 1993, under the able and dynamic leadership of Prof. M.N. Navale with an objective of providing quality education in the field of Engineering, Dentistry, Management, Computer, Pharmacy, Architecture, Hotel Management and the basic school education from kindergarten onwards. There are 100+ institutes under the aegis of STES offering full-fledged school education, diploma, Graduation, Post Graduation courses and Ph.D. programs in various branches of Engineering, Science and Management at nine educational campuses ideally located in pollution free lush green and picturesque environment conducive for learning.

About SKNSITS
SKN Sinhgad Institute of Technology and Science is situated at a beautiful location of Lonavala campus of Sinhgad, established in 2011 and is a part of well-known educational trust Sinhgad Technical Education Society having registered office in Pune. SKN Sinhgad Institute of Technology and Science is affiliated to the Savitribai Phule Pune University (SPPU). SKNSITS is engrossed for its highest academic excellence and committed to provide quality education.

Besides conventional teaching, college puts special emphasis on e-based learning, subject-oriented value addition programs, experimental and industry oriented project work along with Entrepreneurship cell, Student training program, AMCAT, and research club activities. The College has an established system of feedback from the students, parents and industry. Every student is closely monitored by the system of Local Guardian scheme.

How to reach:
SKNSITS Institute is located in Lonavala which is 4Km from Lonavala Railway station and 5Km from bus stand. It is at a distance of 60 Km from Pune and 90 Km from Mumbai, located on Mumbai-Pune Expressway. It is very popular hill station in western part of Maharashtra. The atmosphere in Lonavala is quite pleasant to stay especially during rainy season. Also, nearby National airports are Mumbai and Pune.

Chief Patrons:
Hon. Prof. M. N. Navale, Founder President, STES, Pune
Hon. Dr. (Mrs.) Sunanda M. Navale, Founder Secretary, STES, Pune
Hon. Ms. Rachana Navale Ashhtekar, Vice-President (Admin), STES, Pune
Hon. Mr. Rohit M. Navale, Vice President (HR), STES, Pune

Patrons:
Dr. A. V. Deshpande, Principal, SKNCOE, Vadgaon Pune
Dr. S. D. Lokhande, Principal, SCOE, Vadgaon Pune
Dr. M. S. Gaikwad, Principal, SIT, Lonavala
Dr. S. N. Mali, Principal, SITS, Narhe, Pune
Dr. C. B. Bangal, Principal, RMD SSoE, Warje Pune
Dr. R. S. Prasad, Principal, NBN SSoE, Ambegaon
Dr. K. P. Patil, Principal, SAE, Kondhawa, Pune

Organizing Chairman
Dr. M. S. Rohokale  
Principal, SKNSITS, Lonavala

Advisory Committee
Prof. R. M. Thadi, HOD, E &TC Dept., SKNSITS
Prof. N. K. Gavade, HOD, MECH Dept., SKNSITS
Prof. V. D. Thombare, HOD, CSE Dept., SKNSITS
Prof. S. Datey HOD, ELECT. Dept., SKNSITS
Prof. G. Kadam HOD, IT Dept., SKNSITS
Prof. G.V. Khadekar HOD, Applied Sci. Dept., SKNSITS

Convener
Dr. Vandana. M. Rohokale  
Mob: +91-9689922524
vrohokale.sknsits@sinhgad.edu

Coordinator
Ms. Kirti A. Yadav  
Mob: +91-9921950862
Mrs. Payal P. Tayade  
Mob: +91-9860640537

For Registration
Mr. Ankush Ukirde  
Mob: +91-8275452640
Mr. Mahesh D. Bhagawat  
Mob: +91-8275269078

For Accommodation
Mr. Javed. R. Shaikh  
Mob: +91-9890429635
Mr. Sarang M. Patil  
Mob: +91-9766747908

Organizing committee
Dr. Prakash. H. Patil  
Ms. Sushma B. Ambekar
Mr. Abhijit A. Chavan  
Mrs. Priyanka D. Halle
Mr. Suhas S. Chavan  
Mr. Amol Satpute
Mr. Rohan S. Musale  
Mrs. Snehal Khartad
Mr. Prashant Karkale
About the Program:
The performance of the wired and wireless network protocols can be evaluated using simulation tools. Popular open source network simulators like NS-2 and NS-3 are extensively adopted by the Research community. NS-2-NS-3 can be efficiently used to simulate the real time secure network applications.

Program Objectives:
➢ To understand the code of existing protocol in NS-2 and NS-3, to add new Modules, to work on case studies for Protocol Simulations in NS-2 and NS-3

Prerequisites for the course:
➢ Programming Knowledge of C, C++
➢ Knowledge of Networking.

Course Outline
• Installation of Linux, Basic Linux Commands & Programming, Cisco Packet Tracer
• NS-2 Stack –Architecture, Wired Networks with UDP and TCP, NAM window
• Wireless Network with UDP and TCP, Trace file Analysis: Xgraph, Tracegraph and AWK / PERL Scripts
• Wired-cum-Wireless Networks, Heterogeneous Networks Handover: WLAN, WiMAX and UMTS Networks
• VANETs: NS-2 and VanetMobisim / SUMO
• Network Security Modelling, recompilation of source code, Installation of NS-3, NS-2 Vs NS-3
• NS-3 Node Architecture & Objects, C++ programming with Python Scripts
• Point -to-point and CSMA (Ethernet), Tracing Wireshark, NetAnim & Tracemetrics
• Wireless Network Topology, Graphs: GNU Plots Visualizing – python Visualizer
• TCP– Congestion Control Protocol, TCP–FTP Transfer, UDP – Echo Server
• VANETs: WiFi and WAVE Protocols, Integration of V2V and V2I with SUMO
• LTE Stack: Propagation and EPC Models, WiMAX Modeling, Contiki for WSN Simulation, WSN applications in Contiki, IoT simulations in Contiki, 5G Simulations in NS-3

Registration Fee Particulars:
Research Scholars/PG Students : ₹2500/-
Industry Delegates : ₹3000/-

The registration fee includes admission to all sessions, kit, PPT (soft copy) and lunch.

Send your filled registration form for confirmation through email (ns2ns3sknsits@gmail.com) or submit online. The registration fees can be paid in cash/DD Pay order drawn on in favor of “Principal, Sinhgad Institute of Technology, Lonavala. Payable at Lonavala or you can pay at the time of registration.

Note: Registrations are limited to 40 participants only and will be considered on first come first basis.

Accommodation:
External participants will be provided lodging and boarding in college campus at normal rates (₹200/per day) provided that they should intimate the coordinators about it or must be mentioned in registration form.

IMPORTANT DATES
Last date of Registration: 5th October, 2016

Completed registration form in prescribed format must reach to event coordinator on or before 5th October 2016. Advance copy of registration form must be sent via email on below mentioned mail address.

ns2ns3sknsits@gmail.com

MAILING ADDRESS
To,
The Convener,
Electronics and Telecommunication Department,
SKN-Sinhgad Institute of Technology and Science
Gat No. 309/310, Kusgaon (Bk), Lonavala 410 401.
Phone: (O) 02114 304 633

REGISTRATION FORM
Four Days National Level FDP
On
“Network Simulator”
[NS2 & NS-3]

7th to 10th October, 2016

1. Name:______________________________

2. Designation______________________________

3. Department______________________________

4. Institute/Organization:______________________________

5. Address for Correspondence:______________________________

Mobile No:

Email: ________________________________

6. Accommodation needed: YES / NO

7. Registration Fee Rs. ____/- to be paid in cash at the time of registration.

Date & Place:

Sign of Participant ________________________________

Sign & Seal of Sponsoring Authority ________________________________