

About VIT University

Founded in 1984 as Vellore Engineering College, the institute was declared a University in recognition of its academic excellence by the Ministry of Human Resources Development, Government of India in 2001. The University has since grown by leaps and bounds – establishing excellent infrastructure spread over an impeccably clean and green 350 acre campus - well on way to fulfill the vision of the founder and Chancellor Dr. G. Viswanathan to make it truly world class. VIT today comprises of nine constituent Schools and interdisciplinary Centers offering undergraduate, graduate and research programs up to PhD level. VIT is the first educational institution of India to get ISO 9002 certificate by the DNV of The Netherlands. It is again the first Institute in India to get accreditation from IEE (UK). VIT has been accredited by the National Assessment and Accreditation Council (NAAC). In the last seven years, VIT had more than 25 visiting professors, some of them staying 6 to 12 weeks offering accelerated courses or leading Workshops/ Seminars for the benefit of students of VIT and also the industry around.

About the School of Electronics Engineering

The School offers B. Tech [ECE] and five M. Tech programs. Facilities for research leading to Ph.D. are available in many emerging areas. A major emphasis in both the undergraduate and post graduate program is the teaching and learning process that makes the student industry ready. The School is actively involved in R&D activities and has sponsored projects from various agencies like DST, ISRO (RESPOND), and BRNS. It has MOU's with industries and other reputed institution and R&D organization of our country and other parts of the world.

Course Aim and Objectives

Network simulation 2 (ns-2) has been widely accepted as a proven tool for network simulation. This can trace simulation results which resemble those of practical networks. Its animation for packet flows justifies the intended operation of the network. ns-2 being an open source tool is useful to develop new protocols by modifying the back end C++ source codes.

Our training program is focused on techniques for designing a new protocol in ns-2 environment. We shall develop new protocols in IP, TCP and Application layer including new Queuing Discipline. The training will facilitate development C++ source code for any proposed protocol which is mandatory for ns-based research work. The participants will develop wireless networks develop multi-domain wireless networks and validate our new protocols.

Course Content

Day 1: Lab

- ns-2 Installation and TCL/OTCL Scripts
- Data trace and Analysis, and Animation
- Protocol Specific Agent Development
- C++ code generation and ns compilation
- Call OTCL command from C++ and vice versa
- Assignment for Lab practice

Day 2: Lab

- New Agent development for new application layer protocol
- Designing new TCP agent for new a

- C++ code generation for new application and new TCP agent
- ns-2 compilation and Developing TCL code for new agents
- Function and Command control between C++ and OTCL for new application
- Assignment for Lab practice

Day 3: Lab

- ns codes for generating Graphs
- Developing ns source code for new queuing policy
- Developing a multi domain networks
- Developing new handoff protocol in ns-2
- Deploying new agent, new TCP and new Application in a new single network
- Assignment for Lab practice

Pre-requisite

- Programming knowledge in C/C++.
- Candidate is expected to bring his/her laptop with Linux Redhat installed. This will facilitate him carrying all C++ source material related to training. (Desktops are available in the laboratory for the training purpose).

Who can attend?

Students and Faculty from academic institutions and Industry people working in Networking area

Registration Fee

Student	: Rs. 2000
Academicians	: Rs. 3000
Industry person	: Rs. 4000

NOTE:DD should be taken in favor of **VIT University**, payable at **Vellore**.

Accommodation (including food) will be provided based on prior request to Course Coordinator at extra cost.

IMPORTANT DATES:

Last date for registration -13.02.2012
(Registration limited to 30 participants)

Registration Form

Name :

Department :

Organization :

Experience :

Address for Correspondence:

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Email:

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Phone:

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Accommodation Required: Yes No

Demand Draft Details:

Academician Student Industry Person

Amount :

DD No. :

Bank :

Dated :

Signature:

(Use Photocopy of the above form, if required)

Advisory Committee

Chief Patron

Dr. G. Viswanathan, Chancellor

Patrons

Shri. Shankar Viswanathan, Vice-President

Shri. G. V. Sampath, Vice-President

Shri. Sekar Viswanathan, Vice-President

Shri. G. V. Selvam, Vice-President

Dr. V. Raju, Vice-Chancellor

Dr. S. Narayanan, Pro Vice-Chancellor

Dr. Anand Samuel, Pro Vice-Chancellor

Chairman

Dr. Elizabeth Rufus, Director, SENSE

Course coordinators:

Prof. Kishore V. Krishnan

Communication Engineering Division

SENSE

Prof. K. V. N. Kavitha

Communication Engineering Division

SENSE

Speaker

Dr. Sibaram Khara, Ph. D (Engg),

Division Leader, Communication Engineering Division, SENSE,

VIT University

Prof. Pavitra Balaji, Networking Division, SENSE, VIT University

Registration Form & DD to be sent to

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VIT
UNIVERSITY
(Estd. u/s 3 of UGC Act 1956)

Vellore – 632014, Tamilnadu, India
www.vit.ac.in

Three Day Training Program
on
DEVELOPING NS-2 FOR NETWORK
SIMULATION- (PHASE - II)

February 23rd to 25th, 2012

Organized by

Communication Engineering Division
School of Electronics Engineering (SENSE)



VIT University

A place to Learn; A chance to grow