



Excelssior Education Society's
K.C. College of Engineering and Management Studies and Research
Mith Bunder Road, Near Hume Pipe, Kopri, Thane (E)-400603

Name of the event: STTP on Hands-On : Advanced Computational Tools

Name of speakers: Mr. Jagjit Paul, Dr. Madhumita Chatterjee

Date: 15/12/2014-26/12/2014

Two weeks STTP on "Hands-On:Advanced Computational Tools" 15 th to 26 th December 2014	<u>Registration Details</u>	Excelssior Education Society's K.C. College Of Engineering & Management Studies & Research Mithbunder Road , Kopri , Thane (East) -400 603 ISO 9001:2008 Certified
<u>Registration Form</u> Name of Candidate : _____ Email Id : _____ Mobile no : _____ Name of Institute with address : _____ Enclosed cash / Cheque no : _____ Dated ____/____/____ of _____ Rs. _____ Participant's Signature _____	Registration Fees : ISTE member : Rs. 3700/- Non-ISTE member : Rs. 4000/- Industry Delegates : Rs. 4500/- [Cheque in favour of "The Principal, K.C. College Of Engineering & Management Studies & Research, Thane.] Registration Timing: 9.00 AM to 9.30 AM Session Timing : 10.00 AM to 4.30 PM <i>Participants can carry their own laptops.</i> <u>Contact Details</u> Prof. Sonal Balpande Mobile : 9967581913 Email : balpande_sonal@yahoo.com Prof. Monali Patil Mobile : 7506070887 Email : mpp31_12_81@rediffmail.com Prof. Sayali Kor Mobile : 8452002712 Email : sayaleekor@yahoo.co.in	  ISTE Approved Two weeks STTP on "Hands-On:Advanced Computational Tools" 15th to 26th December 2014 Organized By Departments of Information Technology & Computer Engineering K.C. College Of Engineering Email : STTP14KCCOE@gmail.com Website : www.kccoe.org Phone no : 022 25326496/25326062

About College

Excelssior Education Society, is an Educational and Charitable Trust Founded in 1978. The K.C. College Of Engineering & Management Studies & Research (KCEMSR) is the product of realization of vision and dream of Late.K.C.Khanna and Dr.Harssh Khanna in year 2001. The institute is considered to be distinctive in education as it is firmly rooted in the local soil. KCEMSR is ISO 9001:2008 certified for quality control.

About Departments

Department of Information Technology and Computer Engineering was started in the year 2001. The aim of the departments is to prepare graduates for personal and professional success with awareness and commitment of their ethical and social responsibilities.

Objective

"Hands-On: Advanced Computational Tools" STTP.

The objective of this STTP is to help participants to understand and apply principles, methodology & techniques of Advance Computational Tools keeping up with latest technological advances in engineering field adopted by industry.

Program Contents

- 1.Basics of Linux
- 2.NS-2
- 3.Introduction to Virtualization
- 4.Virtualization using various technologies
- 5.Hadoop- MapReduce, Nosql
- 6.Android
- 7.WireShark and Other Security Tools
- 8.Latex and Xfig

Patrons

Dr. Saikiran Khanna
(Managing Director)

Dr. H.S. Cheema
(C.E.O.)

Dr. Hansraj Guhilot
(Principal)

Prof. Reeta Shaktivel
(Vice Principal)

Chief Convenor

Prof. Aarti Bakshi
(H.O.D. Information Technology)

Prof. Amarja Adgaonkar
(H.O.D. Computer Engineering)

Convenor

Prof. Asmita Deshmukh
Prof. Varsha Wangikar

Co-ordinators

Prof. Nilima Patil	Prof. Shailaja M.
Prof. Vaishali Yeole	Prof. Roopali L.
Prof. Mandar G.	Prof. Monali P.
Prof. Sonal B.	Prof. Shubhangi.V.
Prof. Shilpa N.	Prof. Chetana K.
Prof. Hari R.	Prof. Amuthavalli
Prof. Hasib S.	Prof. Uday Kumar S.
Prof. Sayli K.	Prof. Chandrika D.
Prof. Keerti K.	Prof. Sweta Reddy
Prof. Sulochana M.	Prof. Manasi C.
Prof. Dhanashree K.	

K.C.College of Engineering & Management Studies & Research

ISTE Approved STTP on "Hands- On: Advanced Computational Tools" (15th Dec-26th Dec14)

SCHEDULE

Note: Session 1 & 2: 10AM to 1.00PM Session 3 & 4: 1.30PM to 4.30PM

Lab-III: System Programming Lab (Ground Floor)

Lab-X: Programming Lab (First Floor) Room No: 206 (Second Floor)

DATE & DAY	SESSION	TOPIC	Venue
15/12/14 Monday Linux	1	Inaguration	Seminar Hall
	2	Importance of Free Software - Linux	Lab- III
	1.00PM-1.30PM –LUNCH BREAK		Room No - 206
	3	Programming Tools in GNU-Linux	Lab- III
	4	Programming Tools Contd...	
16/12/14 Tuesday NS-2	1	Installation of NS-2 on LINUX	Lab- X
	2	Basic of NS-2 and TCL script	
	1.00PM-1.30PM –LUNCH BREAK		Room No - 206
	3	Wired network Simulation	Lab- X
	4	Wired Network Analysis	
17/12/14 Wednesday NS-2	1	Wireless Network Simulation	Lab- X
	2	Wireless Network Analysis	
	1.00PM-1.30PM –LUNCH BREAK		Room No - 206
	3	Embedding path inside NS2 environment	Lab- X
	4	Contd...	
18/12/14 Thursday	1	Introduction to Virtualization	Lab- III
	2	Virtualization Libraries in Linux	
	1.00PM-1.30PM –LUNCH BREAK		Room No - 206

Virtualization	3	Installation & Configuration of KVM	Lab- III
	4	KVM Contd...	
19/12/14 Friday Virtualization	1	Using Virtual Machine Manager for Managing VM	Lab- III
	2	Contd...	
	1.00PM-1.30PM –LUNCH BREAK		Room No - 206
	3	Installation & Configurations of NFS System	Lab- III
	4	Live migration of VM's using NFS	
20/12/14 Saturday Android	1	Android Overview and its history	Lab- X
	2	Overview of Android OS	
	1.00PM-1.30PM –LUNCH BREAK		Room No - 206
	3	Installation and use of Android tools	Lab- X
	4	Overview of Project and Main Building Blocks	
22/12/14 Monday Hadoop	1	Importance of Hadoop	Lab- III
	2	Overview of cloud computing	
	1.00PM-1.30PM –LUNCH BREAK		Room No - 206
	3	Getting Hadoop Up and Running	Lab- III
	4	Hadoop Cluster and running of some Demo jobs	
23/12/14 Tuesday Hadoop	1	Understanding MapReduce	Lab- III
	2	Applications using Java-API	
	1.00PM-1.30PM –LUNCH BREAK		Room No - 206
	3	Developing MapReduce Programs	Lab- III
	4	Study of a moderately sized data and its demonstration	
24/12/14 Wednesday Security Tools	1	TCP DUMP	Lab- III
	2	Wireshark	Lab- III
	1.00PM-1.30PM –LUNCH BREAK		Room No – 206
	3	NMAP	Lab- III
	4	ARPing	Lab- III
26/12/14 Friday Latex	1&2	LATEX(Documentation Tool)	Lab- III
	1.00PM-1.30PM –LUNCH BREAK		Room No – 206
	Valedictory Function		Seminar Hall

REPORT FOR
ISTE Approved STTP on
“Hands- On: Advanced Computational Tools”

ORGANIZED BY:

Departments of Information Technology and Computer Engineering.

DURATION OF WORKSHOP:

10days workshop, total 7 hours session (lecture +lab).

STTP DATES:

15th to 26th December 2014

VENUE:

Seminar Hall,Lab X and LAB 3(K.C. College of Engineering, Management studies & Research, Thane)

NUMBER OF PARTICIPANT: 63

FEES PER PARTICIPANT:

CONVENERS:

Prof. Aarti Bakshi, H.O.D. (IT Department)

Prof . Amarja Adgaonkar H.O.D. (Computer Department)

REPORT FOR STTP ON

Date:15/12/2014

1)LINUX

SPEAKER:

Mr. Krishnakant Mane, Chief System architect of GNUkhata

OBJECTIVE:

- 1) Basics of free open source software
- 2) understanding of programming tools in GNU linux
- 3) with lots of exercise on basic commands we are very well of handling LINUX

2)NS-2

SPEAKER:

Mr. Pranav Pawar, Kashibai Navle College of Engineering, Pune

Date:16/12/2014

OBJECTIVE:

- 1) Installation of NS2 in linux
- 2) Principles of NS2 and TCL script

Date:17/12/2014

OBJECTIVE:

- 1) To gain much skill in analysis and Simulation of both wired and Wireless
- 2) Embedding path inside NS2 environment
- 3) Lots of exercise to ensure that we are very knowledgeable in NS2

3)Virtualization

SPEAKER:

Prof. Sameer Patil ,KIT, Kolhapur

Date:18/12/2014

OBJECTIVE:

- 1) Installation & Configuration of KVM
- 2) How to use Virtual Machine Manager for Managing VM

Date:19/12/2014

OBJECTIVE:

- 1)Installation & Configuration of NFS System
- 2)To get knowledge about the Live migration of VM's using NFS

Date:21/12/2014

3)Android

SPEAKER:

Mr.Jagjit Phul, GNU linux

OBJECTIVE:

- 1) Android Overview and its history
- 2) Overview of Android OS
- 3) Installation and use of Android tools
- 4) Overview of Project and Main Building Blocks

4)Hadoop

SPEAKER:

Mr.Jagjit Phul, GNU linux

Date:22/12/2014

OBJECTIVE:

- 1) Importance of Hadoop and mapreduce
- 2) Overview of cloud computing
- 3) Getting Hadoop Up and Running
- 4) Hadoop Cluster and running of some Demo jobs

Date:23/12/2014

OBJECTIVE:

- 1) Understanding MapReduce
- 2) Applications using Java-API
- 3) Developing MapReduce Programs
- 4) Study of a moderately sized data and its demonstration

Date:24/12/2014

3)Security tools

SPEAKER:

Dr.Madhumita Chatterjee

OBJECTIVE:

- 1)To analyse the packets using Wireshark
- 2)To Detect the number of hops by using NMap
- 3)Basics of TCP Dump and ARPing