Registration Details:
Registration fee is Rs. 300/- per participant and has to be paid in the form of demand draft, drawn in favour of “The Director, NIT, Tiruchirappalli” payable at Tiruchirappalli.

Scanned copies of the completed Registration forms and DD for registration fee should reach the coordinator through email (nsk@nitt.edu, sishajpsimon@nitt.edu) not later than 12th Dec 2014. The selected candidates will be intimated on or before 13th Dec 2014 by e-mail / phone. The registration form and DD should be submitted at the registration desk on 15th Dec 2014. Accommodation will be provided on request and is subject to availability.

RESOURCE PERSONS

Mr. Pragadeeswaran
Founder & CEO
Aries Biomed Technology
www.ariesbiomed.com

Mr. Mahesh Anand.
Founder & CTO
Scientific Computing Solutions
SCS-India
www.scs-india.org

Workshop Coordinators

Dr. N.Sivakumaran,
Associate Professor,
Department of
Instrumentation and Control Engg,

Dr. T.K.Radhakrishnan,
Professor,
Department of Chemical Engg,

Dr. Sishaj P Simon,
Assistant Professor,
Department of
Electrical and Electronics Engg,

National Institute of Technology,
Tiruchirappalli,
Tamil Nadu - 620 015.

Contact details

E-mail: nsk@nitt.edu,
sishajpsimon@nitt.edu

Phone No.: 0431- 2503362/2503265

Mobile: 9486001137

Three -Day Hands-on Workshop on
Real Time Signal Acquisition & Processing using Open Source Software SCILAB

15-17 December 2014
Monday-Wednesday

Organized by

Department of
Instrumentation and control Engg,
National Institute of Technology,
Tiruchirappalli,
Tamil Nadu - 620 015.
SCILAB is an Open Source Scientific Computing Software, developed by INRIA (France) for system control and signal processing applications. It is also a vector based program. SCILAB package also includes SCICOS which is a Model Based Design Tool.

Standard SCILAB package doesn’t have an image and video processing toolbox but the SIVP (Signal and Image Processing) and SIP toolbox can be freely downloaded from the link http://siptoolbox.sourceforge.net.

The objective of this workshop is to explore the computing abilities of SCILAB in Signal and Image Processing Applications.

**WORKSHOP CONTENTS**

**Day-1:** Real Time Acquisition of Signals using various Sensors. Exporting the real time data in different file formats (.DAT/ASCII/XLS). Importing the Data in SCILAB, Up-sampling & Down-Sampling of Data, Filter Design & Noise Removal in Time Domain.

**Day-2:** Frequency Domain Representation of 1-D Signals using Fourier Transform. Filter Design in Frequency Domain, Feature Extraction in Time & Frequency Domain for Signal Analysis and Classification, Various Plotting options in SCILAB.

**Day-3:** Integrating the SIP & SIVP toolbox using SCILAB Module Manager, Loading different types of 2-D images, up-sampling & down-sampling of Images, Point Processing & Block Processing with Images, Spatial Domain and Frequency Domain Analysis & Processing of Image Signals.

**About Open Source SCILAB**

**REGISTRATION FORM**

Three -Day Hands-on Workshop on Real Time Signal Acquisition & Processing using Open Source Software SCILAB

15-17 December 2014  
Monday-Wednesday

Name: __________________________

Designation: _____________________

Organization: _____________________

Official Address: ___________________

_________________________________

_________________________________

Mobile/Telephone:__________________

e-mail: ____________________________

Accommodation required: Yes/No

Payment details

DD No. : __________________________

Date : ________________  Rs. : __________
(DD should be drawn in favour of “The Director, NIT, Tiruchirappalli” payable at Tiruchirappalli)

Signature: _________________________

Date: ____________________________