

## **National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh**

National Institute of Technical Teachers Training and Research, Chandigarh, formerly known as Technical Teachers Training Institute (TTTI), was established by Ministry of Human Resource Development, Government of India in 1967 to meet the requirements of training Polytechnic teachers for the growth and development of polytechnic education in the northern region of the country. It had the collaboration of Royal Netherlands Government up to 1974. The institute ushered into a new era in November 2003, with its changed name and enhanced status as National Institute of Technical Teachers Training and Research (NITTTR). It is one of the four such National Institutes in the country with a focus on the northern region comprising the states of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttarakhand, National Capital Territory of Delhi and Union Territory of Chandigarh. Presently, the outreach of the programmes and activities of the institute covers the entire gamut of technical education. It is now reckoned as a resource institute for the technical education system providing services to its clientele covering faculty/staff of technical institutions, officials of directorates/boards of technical education, central and state government departments, industry, students from technical institutes, community and trainees from overseas.

## **Sri Krishna College of Engineering and Technology**

Sri Krishna College of Engineering and Technology is one of the premier institutions of Sri Krishna Trust, established in the year 1998 with a mission of imparting high quality technical education to the aspiring students. This self finance, autonomous institution accredited by NAAC with 'A' Grade (with 3.42 CGPA out of 4) and National Board of Accreditation is located at a prominent place in Coimbatore city which can be easily accessible on the Palghat high way of NH 47. SKCET is one of the leading institutions in Tamil Nadu State that offers Under Graduate, Post Graduate and Research Programs in Engineering and Technology and in addition, the college has gained recognition for its uniquely tailored management education program. There are 6 branches of B.E./ B.Tech., 5 branches of M.E., MBA and MCA. The college is one among the best self financing Engineering colleges imparting high quality of technical education in TamilNadu.



Short Term Course  
On  
**“Scilab Programming”**  
14 - 18 May, 2018



**Department of Electrical and Electronics Engineering**



Organised By

**National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh**



**Sri Krishna College of Engineering and Technology  
Coimbatore**

### Course Objective:

- To provide introduction to Scilab, Scilab commands and its applications
- To introduce and various Toolboxes
- To introduce the Simulation using XCOS
- To provide the principles of Image Processing and Applications
- To Develop some applications with Scilab Programming in various Engineering Applications
- To acquire knowledge about OpenCV
- To implement Face and Eye Detention Techniques
- To implement Soft Computing and Nature Inspired Algorithms

### About the Programme

Scilab is free and open source software for numerical computation providing a powerful computing environment for engineering and scientific applications. Scilab is released as open source under the CeCILL license (GPL compatible), and is available for download free of charge. Scilab is available under GNU/Linux, Mac OS X and Windows XP/Vista/7/8. Scilab includes hundreds of mathematical functions. It has a high level programming language allowing access to advanced data structures, 2-D and 3-D graphical functions. This program aims to introduce the participants to the new software and explain in details about its potential to do scientific calculations, data analysis and various tools available in the software for research. It also introduces the methods to solve linear equation, Matrix operations, eigen values & eigen vectors, data analysis using SCILAB. The importance of this session is to encourage the faculty members to use the software which is free for scientific computing whenever MATLAB is not available.

### Course Contents:

- SCILAB Introduction and Vector Operations, Variables and Matrix Operations
- Conditional Branching, Iterations and Loops Scripts Functions
- Toolboxes and Scilab Applications using Garuda Cloud
- 2D, 3D Graphs and Advanced Plotting Commands
- Image Processing Toolbox and Implementation of Face and Eye Detection Techniques

- Introduction to OpenCV
- Curve Fitting, Polynomials and Differential Equations
- Simulation using XCOS
- Numerical Optimization Techniques and ArtificialIntelligence

### Registration

#### Registration Link:

<https://goo.gl/forms/nT30nw75RMv8dJE73>

Registration :Free

#### Local Course Coordinator

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