

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.

Course Objectives

The objectives of the Short term course are

- To instill in-depth knowledge of various Machine Learning techniques using Python
- Detailed understanding of supervised machine learning concepts and hands-on over various regression techniques, unsupervised machine learning and clustering methods
- Know how to build predictive models from data, analyze their performance and deploy to production



Short Term Course

on

"Machine Learning Using Python"

14-18 May, 2018

Department of Computer Science and Engineering



Organised By

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



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



About the Programme

The course covers in depth knowledge of various Machine Learning techniques using Python, detailed understanding of supervised machine learning concepts, hands-on over various regression techniques in Python, application of learning theory functions in Python, detailed understanding of unsupervised machine learning concepts and its application in Python, hands-on over various clustering methods, dimensionality reduction and Kernel methods in Python, application of reinforcement machine learning concepts and adaptive control using Python, detailed understanding of Neural networks and advanced topics like advanced neural networks and convolution neural networks and their industry application.

Course Contents:

- Machine Learning and its Applications
- Introduction to Python language Basics and its installation
- Classification and Prediction Algorithms
- Social Network Analysis and NetworkX
- Data Analytics with Python
- Clustering Data using K-Means Algorithm and its implementation in Python
- Decision tree algorithm using Python
- Neural Networks Algorithm Using TensorFlow
- Make predictions using linear regression, polynomial regression, and multivariate regression
- Facial Image Processing Techniques using Python

Registration

Faculty interested in attending the programme must get registered with the programme coordinator either at NITTTR, Chandigarh or at SKCET, Coimbatore latest by 10th May, 2018. Registration can be done at any one of the links below,

<https://goo.gl/forms/rx6FnnO9Ue4sf6gA2>

or

<http://www.nitttrchd.ac.in/sitenew1/stconline1/selectyear3.php>

Course Faculty

The course shall be conducted by the following Industrialists and Academicians,

1. Mr.Venkateshwaran Loganathan, B.E., M.S., Lead Architect, Thickstat Inc, Coimbatore.
2. Mr.Benhar Charles, Associate Programmer, Jiff IT Solutions, Coimbatore
3. Dr.Preethi, Assistant Professor, Anna University, Coimbatore.
4. Dr.Sumathy, Assistant Professor, Government college of Technology,
5. Dr.Ganesh, Assistant Professor, Anna University, Coimbatore.
6. Dr.J.B.Jona, Assistant Professor, Coimbatore Institute of Technology, Coimbatore.
7. Prof. Shano Solanki, Asst. Prof., CSE, NITTTR, Chandigarh
8. Mr. Pardeep Bansal, System Programmer, NITTTR, Chandigarh
9. Prof. Carolin Jeeva, Assistant Professor, Karunya University
10. Prof. P. Sampath Kumar, Assistant Professor, PSG College of Technology

Course Coordinators from NITTTR, Chandigarh:

Mrs. Shano Solanki , Asst. Prof., CSE 09872920296

Mr. Pardeep Bansal, System Programmer 09468478806

Local Coordination

The course shall be coordinated at local level by Dr. W Regis Anne, Assistant Professor, Department of Computer Applications, SKCET, Coimbatore.

Accommodation

Outstation candidates shall be provided accommodation in the Hostel of SKCET, Coimbatore (on sharing basis). For further details, please contact: Dr. W. Regis Anne

Registration Fee : Free

For any further clarification, please contact:

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