

# National Workshop on INTRODUCTION TO COMPUTATIONAL SOCIAL SCIENCE WITH PYTHON

10th-14th July 2023

Department of Computer Science & Engineering

National Institute of Technology  
Tiruchirappalli

## Patron

Prof. G. Aghila  
Director, NIT Tiruchirappalli

## Secretary

Prof. S. Mary Saira Bhanu  
HOD, Computer Science &  
Engineering

## Coordinators

Dr. Madhukrishna Priyadarsini  
Assistant Professor, Computer  
Science & Engineering

Dr. S. Usha Kiruthika  
Assistant Professor, Computer  
Science & Engineering

## Advisory Committee

Dr. E. Sivasankar  
Associate Professor, Computer  
Science & Engineering

Dr. M. Brindha  
Associate Professor, Computer  
Science & Engineering

## Objectives of the Workshop

- Basic understanding of Computational Social Science (CSS)
- Hands-on-sessions on tools, methods, and goals of CSS using Python
- Social network analysis using Python

## Resource Persons

Eminent speakers from academia (IITs, NITs, IIITs) and industry

## Target Group

UG/PG students/Ph.D. Scholars/Faculty/Industry Personnel

## Registration

On a First Come First Serve basis

Fee:

- Student/Scholar- Rs. 1500/- +18% GST (270)=Rs. 1770/-
- Faculty- Rs. 2000/- +18% GST (360)=Rs. 2360/-
- Industry Personnel- Rs. 2500/- +18% GST (450)=Rs. 2950/-

**\*Lunch and Snacks included**

**Registration Link:** <https://forms.gle/tZRQ54R3y8Phsbej6>

**Payment Link:** <https://www.onlinesbi.sbi/sbicollect/icollecthome.htm>

sbicollect--->Educational Institutions--->Tamilnadu--->Conference and  
Workshop NIT Trichy--->CSEMP CSSPy 2023

**Note:** During the payment, enter the amount in the relevant category and the  
other two can be 0

**Workshop Mode: Offline**

**Maximum number of participants: 70**

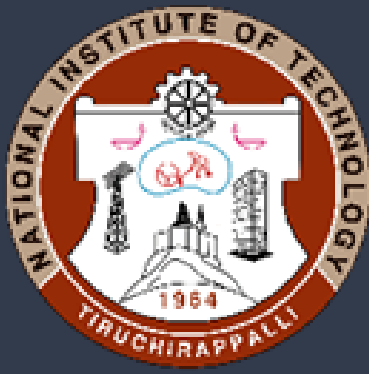
**Last date of registration: 5th July 2023**

## The Institute

National Institute of Technology Trichy is one of the 31 National Institutes of Technology established by the Government of India in the year 1964. Today, NITT (formerly known as Regional Engineering College) is an autonomous co-educational technological institute, with 10 undergraduate and 28 graduate programs. Undergraduate programs lead to B.Tech degrees, while the graduate students and postgraduate students earn M.Tech, M.S. (by Research), Management, Architecture, and Ph. D degrees respectively. The core values of NITT include integrity, unity, excellence, and inclusivity with vision as to be a university globally trusted for technical excellence where learning and research integrate to sustain society and industry.

## CSE Department

The Department of Computer Science and Engineering, established in 1982 with its cohesive team of faculty members, offers a good program at the UG, PG, and Ph.D. levels. The curriculum is a blend of the conventional and the radical. It is updated regularly to keep up with the growing demands and the changing trends of the software industry and research laboratories. The department has played an integral part in the Institute's success. The focal research areas of the department include Machine Learning and Artificial Intelligence, Software-defined Networks and Game Theory, Natural Language Processing, Algorithms, High-Performance Computing, etc.



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# National Workshop on **INTRODUCTION TO COMPUTATIONAL SOCIAL SCIENCE WITH PYTHON**

10th-14th July 2023

Department of Computer Science & Engineering

### Focal points of the Workshop

- Introduction to Computational Social Science (CSS)
- Python Programming in the Context of CSS
- Machine Learning and Deep Learning in the Context of CSS
- Data Framing Techniques
- Handling Social Data
- Accessing Web Data
- Data Visualization Techniques
- Natural Language Processing in the Context of CSS
- Hands-on Approach (Python, Pandas, Scikit-learn)
- Discussion on Various Social Science Problems
- Solving Case studies on Network Analysis, Text Analysis, and other problems of Social Sciences using Python, Pandas, and Scikit-learn

### Accommodation and Food

The hostel can be availed as per the institute norms or can arrange their own

### Contact Details

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