



# 5 – Day Workshop on Research Tools and Techniques

Organised by

**National Institute of Technology Puducherry**

Thiruvettakudy, Karaikal- 609609, India

NOV. 2020

23-27

## About NIT Puducherry

National Institute of Technology Puducherry (NITPY), Karaikal, is an autonomous public engineering institute, declared as an Institute of National Importance by Government of India under NIT Act, 2007. The institute was established in 2010, and nestled in the scenes of Karaikal, a coastal enclave in the basin of river Kaveri in the Union Territory of Puducherry. NIT Puducherry is having a campus spread around 258 acres in the villages Poovam and Thiruvettakudy of Karaikal. The institution is reaching new heights by developing a synergy between studies, research and consultancy / training activities, and placements. The institute is ranked at 130 under the category of “India Rankings 2020 – Engineering” of the 2020 NIRF rankings, released by the Ministry of Human Resource Development, Government of India.

## About the Workshop

Research is an endeavoring career to discover facts by scientific and systematic investigation. The ultimate outcome of the research is to pursue knowledge, generation of new knowledge and provide practical solutions to the problems faced by the human race. Generally, aspirants enrolled for research activities are introduced to a course Research Methodology, in many academic disciplines such as health, education, psychology, social sciences, nursing, public health, library studies, management and marketing research, etc. Therefore, the course will be taught with different approach and perspectives. In this context, a 5-day workshop on Research Tools and Techniques specifically designed to provide hands on training to the students enrolled for research program recently, and those who face certain challenges to kick-start the process of research systematically. This workshop is focused on the topics complementary to the content mentioned in the syllabus, leading to a good beginning towards successful Researcher.

## Objectives

- To train the student in their early stage of research, to carry out research activity using recent techniques in order to achieve high degree of productivity.
- To familiarize with powerful tools for literature survey and, management skills, ethical issues etc.
- To provide the introduction to the key features of the readily available packages for computational studies and scientific writing.
- To give exposure to the software packages useful in preparing original visuals and illustrations.
- To aspire the scholars with basic skill sets required for quality research output such as effective communication, and presentation, etc.

## Topics to be Covered

- Basics of Research tools and techniques.
- Searching skills for Literature survey.
- Literature management.
- Introduction to Maple and Mathematica, features and applications.
- Effective utilization of online resources.
- Ethical challenges and issues
- Hands on training for creating Visuals- Editing Image, drawing new digital art, etc.
- Basic data analytics
- Basics of LATEX technical writing
- Techniques of Scientific writing.
- Training for preparing a Scientific Poster

## Resource Persons

- Dr. V. Arulmurugan, Pondicherry University – Karaikal campus.
- Dr. Narendra Gajbhiye, MNNIT Bhopal,
- Dr. B. Surendiran, NIT Puducherry
- Dr. Amrtha Bhide, NIT Puducherry
- Technical experts from Wolfram Mathematica
- Technical experts from Maple
- Professional experts on digital art

## Eligibility-Participation-Certificate

The newly re-enrolled Research scholars, Postgraduate students and those want to pursue research as career from various education institutes, colleges and universities can attend this workshop. The candidates interested to participate in this workshop are hereby required to pay a nominal registration fees of Rs 200/- through online mode, to the below mentioned account. Upon paying the registration fees, the participants need to register themselves by filling the Google form, which can be accessed using the adjacent QR code. The requisition is based on first-come first-serve basis, with a limit of 100 participants. The participants will receive further details regarding the online platform, login credentials, and schedule after closing of the registration. The attendees of the workshop will receive hard copies of the certificates to the registered address through post.

## Delivery Mode

Online platform. Specific link will be sent on registered email address.

## Bank Account Details

Account Name	: NITPY workshop/ conference
Account Number	: 37854338444
Name of the Bank	: State Bank of India
IFS Code	: SBIN0070848
Branch Name	: NITPY branch, Thiruvettakudy, Karaikal

Note: While making online payment, the participants are requested to mention their name in the payment remarks to enable us to trace your payment in the bank statement.

## Important Dates

Last date for Registration: **18 November 2020**  
Intimation to the participants: **20 November 2020**

## Registration Link

<http://bit.ly/WORKSHOP-Researchtools>



## Organizing Committee

### PATRON

Prof. K. Sankaranarayananasamy  
Director, NIT Puducherry

### CHAIRMAN

Prof. G. Aghila  
Registrar(I/c), NIT Puducherry

### CONVENER

Dr. Amrtha Bhide  
Assistant Professor, Department of Physics

### COORDINATORS

Dr. B. Surendiran  
Assistant Professor, Department of Computer Science and Engineering

Dr. V. Govindaraj  
Assistant Professor, Department of Mathematics

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