



Five Days Online Short Term Course on "Software Tools & Techniques for Scientific Publications: ROOT, GNU Plot, GeoGebra"

(Under TEQIP- III)

(September 4 – September 8, 2020)

Objective of the Program

The Department of Physics in collaboration with Dept. of ECE & Dept. of Mathematics is organizing five days online Short Term Course on "Software Tools, & Techniques for Scientific Publications: ROOT, GNU Plot, GeoGebra" during September 4 to September 8, 2020.

This short term course aims to provide a comprehensive theoretical and hands on practical sessions on software tools (open source): ROOT (Developed by CERN, Geneva, based on C++), GNUplotting, GeoGebra, along with the State-of-Art data analysis techniques. Further, hands on training on how to write a project report, thesis and resume in Latex will be provided.

About MNIT Jaipur

The institute, established in 1963 as Malaviya Regional Engineering College, Jaipur, was conferred the status of National Institute of Technology on June 26, 2002. Fully funded by Ministry of Human Resource Development (MHRD), Government of India, this is ranked 35th among all engineering institutions across India for NIRF-2020 ranking. Extending into an area of over 317 acres of lush greenery, the institute campus is imaginatively laid-out with a picturesque landscape. It presents a spectacle of harmony in modern architecture, and natural beauty, which entralls and inspires everybody who visits the campus.

Overview of the Program Module

- ROOT:** It is a an open source modular scientific software toolkit. It provides all the functionalities needed to deal with big data processing, statistical analysis, visualization and storage. It is mainly written in C++ but integrated with other languages such as Python & Jupiter.
- GeoGebra & Gnuplotting :** These software tools are used to visualize the geometry and produce the 2D graphs of data generated by other programs or from the experiment.
- Hands-on training on how to write a paper, project report, thesis and resume in Latex.

Registration

Registration is open to faculty members in all disciplines Post Doctoral Fellows, Research Scholars, PG and UG students.

Register by clicking: <https://rb.gy/l5cpan> and submit the form.

Detail of Registration fee (including 18% GST):

Category	Amount
UG/PG/Ph.D. Students	Rs. 590/-
Faculty/Scientist/Post Doctoral Fellow	Rs. 1180/-

Registration fee needs to be remitted Online through NEFT to the Bank account given below. Proof of remittance of the requisite registration fee (with transaction number) shall be uploaded in the Google form.

Mode of Payment:

▪**NEFT/IMPS:** The Registrar MNIT, Jaipur (TEQIP Phase- III)
Account No. 36875887782 IFSC CODE: SBIN0015921 (SBI, MNIT)

Last date of registration is extended to September 02, 2020

Organizing Committee

Patron

Prof. Uday Kumar R Yaragatti
Director, MNIT Jaipur

Chair

Dr. Rahul Singhal
Head, Department of Physics

Advisor (s)

- **Prof. Vijay Janyani**
Head, Department of ECE
- **Prof. Satyendra Prasad Chaurasia**
Head, Department of Mathematics

Convener

Dr. Kavita Lalwani (Department of Physics)

Coordinator (s)

Dr. K. V. Kamma (Phy)
Dr. Anees Ahmed (Phy)
Dr. Sarthak Singhal (ECE)
Dr. Ritu Agarwal (Maths)

Confirmation of Participation:

On receipt of the Google form and fee remittance receipt, participants will receive the confirmation of their participation through email. **Candidates are advised to register early before deadline.**

For further details, please contact @:

coordinatorstc@gmail.com

Mobile: +91-9549650180 (Dr. Kavita Lalwani)

+91-7376157421 (Dr. Sarthak Singhal)



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Experts delivering the Sessions



Prof. I. K. Rana,
Ex Emeritus Fellow
Department of Mathematics
IIT Bombay



Dr. Ankhi Roy
Associate Professor
Department of Physics
IIT Indore



Dr. Ritu Agarwal
Assistant Professor
Department of Mathematics
MNIT Jaipur



Dr. Kavita Lalwani
Assistant Professor
Department of Physics
MNIT Jaipur



Dr. Anees Ahmad
Assistant Professor
Department of Physics
MNIT Jaipur

Advantages of attending the STC at MNIT Jaipur

1. The scientific tools and techniques are useful for data analysis, plotting distributions (Graphs and 1D, 2D and 3D histograms) from the theory results and experiments in science and engineering fields.
2. Writing skills for preparing project, dissertation, thesis, paper and resume in latex are useful for UG, PG, Ph.D students, and faculty/scientists.
3. All software's are open/free available source and easy to install and use.

Who will be benefitted?

- These tools and techniques are very much useful for UG, PG Ph.D. students and faculty/scientist working in Science and Engineering field.
- **Certificate will be given to participants at the completion of the course.**
- On the last day of the course, various projects using these software's and State-of-the-Art techniques will be discussed.