



KARYASHALA

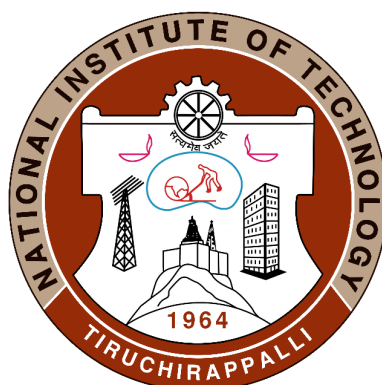
(High-End Workshop)

on

**Methods and Tools for Effective Dissemination of
Research Ideas and Findings**

(Through Virtual Mode)

June 14 – 20, 2021



**Department of Electronics and Communication
Engineering**

SPONSORED BY



NIT TIRUCHIRAPPALLI

The National Institute of Technology (formerly known as Regional Engineering College) Tiruchirappalli (NITT) was started as a joint and co-operative venture of the Government of India and the Government of Tamil Nadu in 1964 with a view to catering the needs of manpower in technology for the country. NITT is one of the 31 National Institutes of Technology established by the Government of India and ranks First among all the NITs in NIRF during three consecutive years. The institution offers Undergraduate Courses in ten branches and Post Graduate Courses in twenty-one disciplines of Science, Engineering & Technology besides M.S. (by Research) and Ph.D. in all the departments.



9
(Engineering)



251-300



251-260



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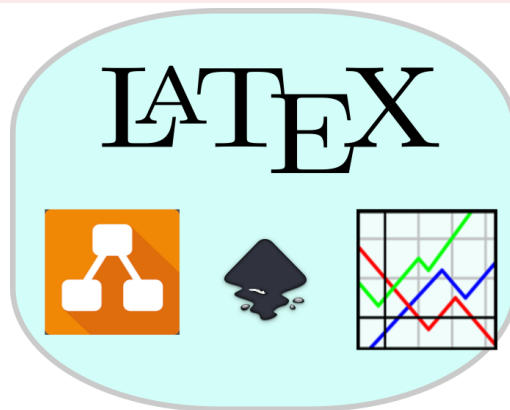
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

The Electronics and Communication Engineering (ECE) Department was established in the year 1968. The vision of the department is to provide valuable resources for industry and society through excellence in technical education and research. The Department offers Under graduate, Post Graduate, Research Degrees (M.S. & Ph.D.) programs. Research in the Department focuses on various disciplines such as Communication Systems, Wireless Networks, Signal and Image Processing, RF MEMS, Microwave Antennas, MIC, Optical Communication, Photonics and VLSI systems.



ABOUT THE COURSE

Dissemination of results is a crucial part of doing research. Only little progress can be achieved if the outcome and relevance of research one does is not properly communicated. Extremely promising results which are not properly documented will not create any impact among the readers. This way, documentation and proper communication of ideas and results is of vital importance in media such as student thesis, technical documents, project proposals, and manuscripts prepared for journals. The expert talks are centered on methods that will effectively improve the quality of writing in the participants.



MAJOR COURSE CONTENT

- Methods to become a productive academic writer.
- The definition of the writing process.
- Peer review process.
- Publication ethics.
- Reference management and bibliography generation.
- Techniques to effectively visualize the numerical results.
- Challenges in technical communication, especially for newcomers.
- Causes and remedies for manuscript rejection.

TRAINING SESSIONS

Hands-on sessions will be given to cover the following tools:

LaTeX and some important packages, Beamer for making presentations, GNU Plot, Inkscape, Draw.io, plot digitizer, etc.

Prerequisite:

A desktop/laptop with recent Windows/Linux (Ubuntu, etc.) based OS to experiment with the tools during training sessions.

WORKSHOP SPEAKERS



Dr. Shreepad Karmalkar

Professor IIT Madras

Research Area: Semiconductor devices



Dr. Chakravarthy Balaji

Professor , IIT Madras.

Research Area: Computational Heat transfer, etc



Dr. Haridoss Prathap

Professor, IIT Madras.

Research Area: Fuel Cell & Carbon nanomaterials



Swati Meherishi

Editorial Director,

Applied Science and Engineering, Springer



Dr. Krishna Jagannathan

Associate Professor, IIT Madras.

Research Area: Stochastic modeling, Analysis of communication networks.



Dr. M. D. Selvaraj

Dean (IC&SR, CE), IIITDM , Kancheepuram.

Research Area: Wireless communication.



Dr. V. V. Mani

Associate Professor, NIT Warangal

Research Area: Wireless communication, Signal processing for Communication



Dr. Swaminathan R

Assistant Professor, IIT Indore.

Research Area: Wireless communication.



Dr. B. Kiran Naik

Assistant Professor, NIT Rourkela.

Research Area: Thermo-chemical energy conversion and storage



Dr. Sudip Biswas

Assistant Professor, IIIT Guwahati.

Research Area: 5G & Beyond Communications



Dr. Rahul Meshram

Assistant Professor, IIIT Allahabad.

Research Area: Age of Information, Internet of Things, Wireless Communication



Dr. Renjith P

Assistant Professor, IIITDM, Kurnool.

Research Area: Graph Theory and Graph Algorithms.



Dr. Srinivasan G

Institute Postdoctoral fellow, IIT Guwahati.
Research Area: Designing and testing novel drying equipment



Dr. A. Ananth

Post-Doctoral Fellow, University of Saskatchewan.
Research Area: Wireless Communication.



Dr. E. S. Gopi

Associate Professor, NIT Trichy.
Research Area: Pattern recognition and computational intelligence



Dr. G. Thavasi Raja

Assistant Professor, NIT Trichy
Research Area: Photonic Devices for Communications



Dr. Karthika V.K.

Assistant Professor, NIT Tiruchirappalli
Research Area: Second Language Acquisition, Second Language Learning Strategies, etc



Dr. J. Kirubakaran

Assistant Professor, NIT Trichy.
Research Area: Finance



Dr. P. Sudharsan

Assistant Professor, NIT Trichy.

Research Area: Stochastic geometry tools for wireless network analysis



Dr. P. Maheswaran

Assistant Professor, NIT Trichy.

Research Area: Wireless communication, Signal processing, MIMO communication.



TARGET AUDIENCE

The course is open to research scholars, postgraduate students, faculty members from universities and educational institutions, scientists and engineers from research organizations, industry.

REGISTRATION FEE

Registration fee is not charged. The course is completely sponsored by SERB Accelerate Vigyan Karyashala (High-End Workshop) program.

NUMBER OF SEATS

Maximum number of participants is limited to 70. The selected candidates will be provided with the link of the web platform a few days before the commencement of the course.

NOTE

E-certificates will be issued only to those attendees with a minimum attendance of 90% or above.

ADDRESS FOR CORRESPONDENCE

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CONVENER



Dr. P. Maheswaran

Assistant Professor

Department of Electronics and Communication Engineering

National Institute of Technology, Tiruchirappalli

CO-CONVENER

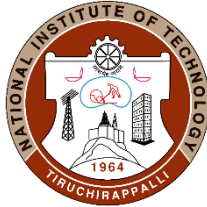


Dr. S. S. Karthikeyan

Assistant Professor

Department of Electronics and Communication Engineering

National Institute of Technology, Tiruchirappalli.



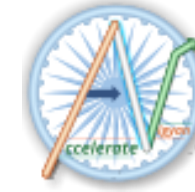
NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI

Department of Electronics and Communication Engineering

A High-End workshop on

Methods and Tools for Effective Dissemination of Research Ideas and Findings

June 14 to June 20, 2021



	Session 1 9:30 AM to 11:00 AM		Session 2 11:30 AM to 1:00 PM		Session 3 2:00 PM to 3:00 PM		Session 4 3:15 PM to 4:15 PM
Day 1 (14-Jun-2021) Monday	Lecture 1 Prof. Prathap Haridoss Professor, IIT Madras.	Break	Lecture 2 Dr. VV Mani Associate Professor, NIT Warangal.	Lunch Break	Lecture 3 Dr. A. Ananth Post-Doctoral Fellow, University of Saskatchewan.	Break	DS 1 Dr. P. Maheswaran Assistant Professor, NIT Trichy.
Day 2 (15-Jun-2021) Tuesday	Lecture 4 Prof. Chakravarthy Balaji TT Narendran Chair Professor, IIT Madras.		DS 2 Dr. M. D. Selvaraj Dean (SR & IC, Continuing Education) IIITDM Kancheepuram.		DS 3 Dr. P. Maheswaran Assistant Professor, NIT Trichy.		DS 4 Dr. Renjith P Assistant Professor, IIITDM Kurnool.
Day 3 (16-Jun-2021) Wednesday	Lecture 5 Dr. G. Thavasi Raja Assistant Professor, NIT Trichy.		Lecture 6 Swati Meherishi Editorial Director-Applied Science and Engineering, Springer.		Lecture 7 Dr. P. Sudharsan Assistant Professor, NIT Trichy.		DS 5 Dr. P. Maheswaran Assistant Professor, NIT Trichy.
Day 4 (17-Jun-2021) Thursday	Lecture 8 Prof. Shreepad Karmalkar Professor, IIT Madras.		Lecture 9 Prof. Shreepad Karmalkar Professor, IIT Madras.		Lecture 10 Dr. Karthika V.K. Assistant Professor, NIT Trichy.		Lecture 11 Dr. Karthika V.K. Assistant Professor, NIT Trichy.
Day 5 (18-Jun-2021) Friday	Lecture 12 Dr. J. Kirubakaran Assistant Professor, NIT Trichy.		Lecture 13 Dr. Krishna Jagannathan Associate Professor, IIT Madras.		Lecture 14 Dr. Rahul Meshram Assistant Professor, IIIT Allahabad.		DS 6 Dr. P. Maheswaran Assistant Professor, NIT Trichy.
Day 6 (19-Jun-2021) Saturday	Lecture 15 Dr. Sudip Biswas Assistant Professor, IIIT Guwahati.		Lecture 16 Dr. Swaminathan R Assistant Professor, IIT Indore.		DS 7 Dr. P. Maheswaran Assistant Professor, NIT Trichy.		DS 8 Dr. P. Maheswaran Assistant Professor, NIT Trichy.
Day 7 (20-Jun-2021) Sunday	Lecture 17 Dr. E. S. Gopi Associate Professor, NIT Trichy.		Lecture 18 Dr. B. Kiran Naik Assistant Professor, NIT Rourkela.		Lecture 19 Dr. Srinivasan G Institute Postdoctoral Fellow, IIT Guwahati.		DS 9 Dr. P. Maheswaran Assistant Professor, NIT Trichy.

DS – Demo Session

Inauguration

14-June-2021, 9:00 AM to 9:30 AM

Welcome Address

Dr. P. Maheswaran

Assistant Professor, Department of ECE

NIT Trichy.

Inaugural Address

Prof. P. Muthuchidambaranathan

HoD, Department of ECE

NIT Trichy.

Address by the Chief Guest

Prof. Haridoss Prathap

Professor

Department of Metallurgical and Materials Engineering, IIT Madras.

Vote of Thanks

Dr. S. S. Karthikeyan

Assistant Professor, Department of ECE

NIT Trichy.



DAY 1 (14-Jun-2021)

9:30 AM



Lecture 1

Topic: Challenges in technical communication, especially for newcomers

Speaker: Prof. Prathap Haridoss
Professor, IIT Madras.

11:30 AM



Lecture 2

Topic: Scientific dissemination and publication

Speaker: Dr. VV Mani
Associate Professor, NIT Warangal.

2:00 PM



Lecture 3

Topic: Writing introduction and methodology in manuscripts

Speaker: Dr. A. Ananth
Post-Doctoral Fellow, University of Saskatchewan

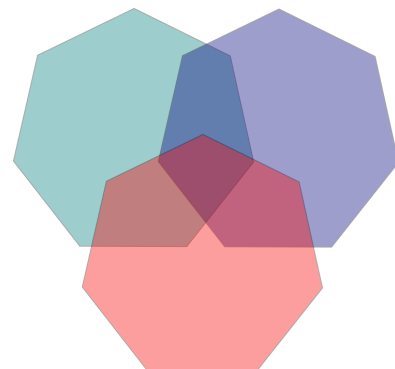
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Demo Session 1

Topic: Plot digitizers for data extraction

Speaker: Dr. P. Maheswaran
Assistant Professor, NIT Trichy.



DAY 2 (15-Jun-2021)

9:30 AM



Lecture 4

Topic: Why is my paper not getting accepted?

Speaker: Prof. Chakravarthy Balaji

TT Narendran Chair Professor,

IIT Madras.

11:30 AM



Demo Session 2

Topic: How to use a LaTeX tool for writing papers and making presentations?

Speaker: Dr. M. D. Selvaraj

Dean (SR & IC, CE) IIITDM Kancheepuram.

2:00 PM



Demo Session 3

Topic: Dealing with page layouts and technical texts in LaTeX

Speaker: Dr. P. Maheswaran

Assistant Professor, NIT Trichy. .

3:15 PM



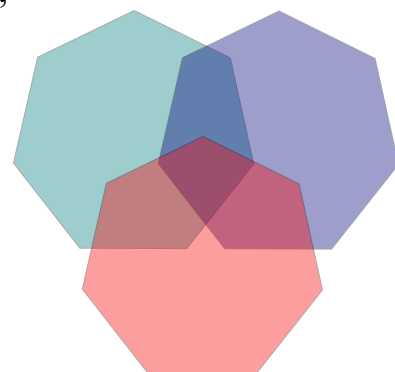
Demo Session 4

Topic: Creating graphic elements in LaTeX using TikZ

Speaker: Dr. Renjith P

Assistant Professor,

IIITDM Kurnool.



DAY 3 (16-Jun-2021)

9:30 AM



Lecture 5

Topic: How to write a good research paper for top international journal

Speaker: Dr. G. Thavasi Raja
Assistant Professor, NIT Trichy.

11:30 AM



Lecture 6

Topic: Publishing scientific research

Speaker: Swati Meherishi
Editorial Director-Applied Science and Engineering,
Springer.

2:00 PM



Lecture 7

Topic: Ethics in research

Speaker: Dr. P. Sudharsan
Assistant Professor, NIT Trichy.

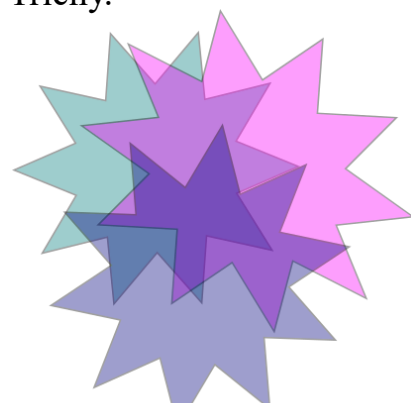
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Demo Session 5

Topic: Managing table of content and bibliography in LaTeX and Beamer

Speaker: Dr. P. Maheswaran
Assistant Professor, NIT Trichy.



DAY 4 (17-Jun-2021)

9:30 AM



Lecture 8

Topic: Role of communication skills in research

Speaker: Prof. Shreepad Karmalkar
Professor, IIT Madras.

11:30 AM



Lecture 9

Topic: A recipe for developing communication skills

Speaker: Prof. Shreepad Karmalkar
Professor, IIT Madras.

2:00 PM



Lecture 10

Topic: Nuances of writing a scientific abstract

Speaker: Dr. Karthika V.K.
Assistant Professor, NIT Trichy.

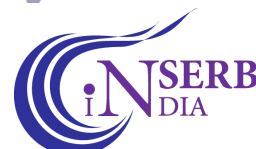
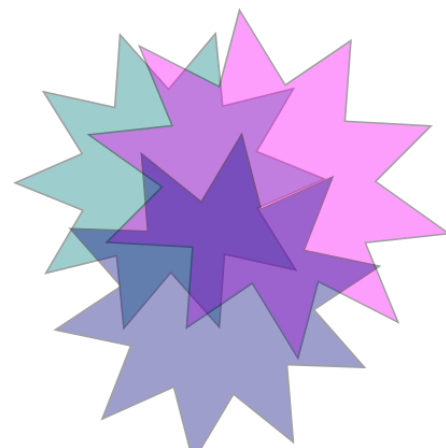
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Lecture 11

Topic: Nuances of writing a scientific abstract (cont.)

Speaker: Dr. Karthika V.K.
Assistant Professor, NIT Trichy.



DAY 5 (18-Jun-2021)

9:30 AM



Lecture 12

Topic: Measurements and scaling techniques

Speaker: Dr. J. Kirubakaran

Assistant Professor, NIT Trichy.

11:30 AM



Lecture 13

Topic: Making an effective technical presentation

Speaker: Dr. Krishna Jagannathan

Associate Professor, IIT Madras

2:00 PM



Lecture 14

Topic: Research methods and basics of technical writing

Speaker: Dr. Rahul Meshram

Assistant Professor, IIIT Allahabad.

3:15 PM

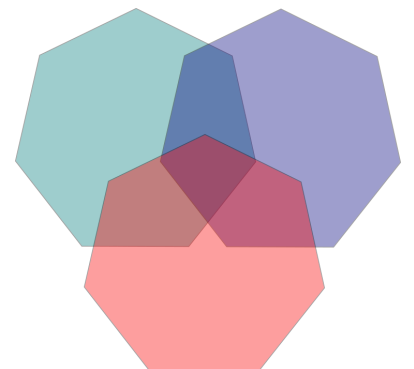


Demo Session 6

Topic: How to include tables, figures, and algorithms in LaTeX?

Speaker: Dr. P. Maheswaran

Assistant Professor, NIT Trichy.



DAY 6 (19-Jun-2021)

9:30 AM



Lecture 15

Topic: Responding to reviewers: My stories

Speaker: Dr. Sudip Biswas

Assistant Professor, IIIT Guwahati.

11:30 AM



Lecture 16

Topic: My experiences on writing technical papers and research proposals, responding to reviewers' concerns, and making presentations.

Speaker: Dr. Swaminathan R

Assistant Professor, IIT Indore.

2:00 PM



Demo Session 7

Topic: Introduction to gnuplot

Speaker: Dr. P. Maheswaran

Assistant Professor, NIT Trichy.

3:15 PM



Demo Session 8

Topic: More on gnuplot

Speaker: Dr. P. Maheswaran

Assistant Professor, NIT Trichy.



DAY 7 (20-Jun-2021)

9:30 AM



Lecture 17

Topic: Tips on technical writing

Speaker: Dr. E. S. Gopi

Associate Professor, NIT Trichy.

11:30 AM



Lecture 18

Topic: Research Excellence – Not Beyond your Reach

Speaker: Dr. B. Kiran Naik

Assistant Professor, NIT Rourkela.

2:00 PM



Lecture 19

Topic: Literature review: Approach and structuring

Speaker: Dr. Srinivasan G

Institute Postdoctoral Fellow, IIT Guwahati.

3:15 PM



Demo Session 9

Topic: Introduction to vector graphics, Inkscape, and Draw.io

Speaker: Dr. P. Maheswaran

Assistant Professor, NIT Trichy.

