

Research Methodology Workshop

an initiative by

IEEE ComSoc Chapter Bangalore

**For the benefits of Faculties, PhD/Research Scholars, PG/UG
Students, Engineers/Professionals from Industries**

Exclusive and Unique Contents

Workshop Objectives:

At the end of this workshop, the audience should be able to:

- understand some basic concepts of research and its methodologies
- identify appropriate research topics
- select and define appropriate research problem and parameters
- prepare a project (thesis) proposal (to undertake a project/thesis)
- organize and conduct research (advanced project) in a more appropriate manner
- write a research report, article/paper and thesis
- write a research proposal (grants)
- Review an article and submit the report (peer review process)

The workshop is divided into **4 modules** of **4 Sessions each of 3-3 ½ hrs**

All the sessions are completely example based.

Module 1 – Identifying a problem (Problem Definition)

Module 2 - Tackling and addressing the problem (Doing Research)

Module 3 – Reporting the research (Report/thesis writing/publishing includes IEEE AuthorshipLab)

Module 4 – Peer Review Process **and Proposal Writing***

Visit for more details:

SCHEDULE

	Day/ Time	Subject/Topic/Title to be covered	Speakers
MODULE 1 Defining a Research Problem	Day 1 09:00- 15:00 Break: 13:00-14:00	INTRODUCTION: <ul style="list-style-type: none"> • What is research? • Why is the research? • Who should do research? • When should do research? • What are different kinds of research? • More Defining a PROBLEM? <p>[1] Overview of Research and its Methodologies</p> <ul style="list-style-type: none"> • Concepts of research • Steps in conducting research <p>[2] Literature review</p> <ul style="list-style-type: none"> • What is literature review? • Why the need for literature review? • How to carry out a literature review? <p>[3] Selecting and defining a research problem</p> <ul style="list-style-type: none"> • Problem formulation – why the need for this? • What are the criteria for selecting a problem? • Identifying variables • Evaluating problems • Functions of a hypothesis 	
MODULE 2 Approach to Solve the Problem (Conducting Research)	Day 1 15:00 – 17:30	Approach to Solve the Problem? <p>[4] Conducting the research</p> <ul style="list-style-type: none"> • Research activities • Preparations before conducting your research 	
		STUDENT INTERACTION SESSION (30 Minutes)	
MODULE 3 Publishing / Reporting Research work (Includes Writing Research Report or Thesis)	Day 2 09:00 –10:00 10:15-13:15	<i>Includes related terms Copyright, patent, Copyright transfer, etc. Patent vs copyright, including co-authors, etc</i> <p>[6] Paper/Report Writing:</p> Detail coverage: <ul style="list-style-type: none"> • What is publishing? • Why to publish? • Who to publish? • Where to publish? • What to publish? <ul style="list-style-type: none"> - Conf Proceeding? - Magazine? - Journal? - Transactions? - Book Chapter? - Book? 	

Visit for more details:

		<p>IEEE AuthorshipLab Writing Research Paper</p> <ul style="list-style-type: none"> • Title Writing (length of the title, effective title) with example good title, not appropriate title... • Authors list writing? • Abstract writing? Length of abstract, contents of the abstract. Example of Good abstract, not good abstract. • Keywords, importance of keywords... • Different sections of article: general contents of different sections (with an example) • Conclusion ... • Acknowledgement • References <p>----- Thesis/Report layout and structure [7] Writing Research Reports and Thesis Why the need to write reports? Thesis Writing</p> <ul style="list-style-type: none"> • Contents of a Thesis • Layout and structure of the thesis • Case Study <p>=====</p>	
<p>MODULE 4 Reviewing Article & Proposal writing* (Peer Review)</p>	<p>Day 2 14:00-17:00</p>	<p>STUDENT INTERACTION SESSION (30 Minutes) [8] Review (Peer Review)</p> <ul style="list-style-type: none"> • What is peer review? • Why is it required? • Who does review? How many reviewers review the paper? • What benefit it gives for authors and for reviewers? • What are the different types of reviews? • How to review? What is normally done? What are the things to ensure? Including plagiarism, etc. • How to report the comments? How details the comment should be? • Review submission • Examples of good review, bad review? • What is camera ready paper? • Etc..... <p>=====</p>	

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Visit for more details: