

**Course Name** : Research Methodology  
**Course Code** : RM-600  
**Credits** : 1-0-0-1  
**Intended for** : MS/PhD  
**Grading Pattern** : Satisfactory (S) / Not Satisfactory (X)

**Course content**

- Why research/Getting research ideas/Executing research
- Aspect teacher-students relationship/stress management
- Communication
- Oral presentation
- Introduction IIT Mandi library resources
- Introduction to Latex/Google docs
- Common errors in English
- Technical paper/proposal writing
- Best practices for numerical simulations
- Best practices for experimentation
- Safety precautions in experiments
- Result analysis/scrutinizing
- Copyright
- Plagiarism
- Ethics in research

**Evaluation methodology**

- Presentation, Participation and Technical writing

**References:**

- The Craft of Research, by Wyne C. Booth, Colomb, William, University of Chicago Press (ebook)
- Research Methodology: A Step-By-Step Guide For Beginners, by Ranjit Kumar, Publisher: Sage South Asia (2011)
- Research Methodology, by R Panneerselvam, Publisher: Phi Learning (2009)
- Research Methodology: Methods and Techniques, by C. R Kothari, Publisher: New Age International (2004)