

MIO 106-P RESEARCH METHODOLOGY [P]

Course Credit : 1

Contact Hours : 30

1. Literature survey on a given research area.
2. Defining a research problem.
3. Designing an experiment with respect to a given objective.
4. Experimental work.
5. Presentation of data.
6. Technical writing.

Reference Books (Composite list for theory and practicals)

1. Kothari C. R., Research Methodology Methods and Techniques, New Age International.
2. Kumar, R. C., Research Methodology. APH Publ Corporation, New Delhi.
3. Good C. V., Scates, D. E., Methods of Research, Appleton-Century-Crofts.
4. Day R.A. How to write and publish a scientific paper, Part 274, Volume 994, Oryx Press.
5. Alley, M., The Craft of Scientific Writing, Springer Science and Business Media.
6. Cooray P.G. Guide to Scientific and Technical Writing.

MIO 106-T RESEARCH METHODOLOGY [T] Theory
Course Credit : 1 Contact Hours : 15

1. Biosafety in the laboratory
2. Ethics in research
3. Defining the problem
4. Literature survey
5. Defining the Aims and Objectives
6. Work Plan – Time-bound Frame
7. Research design
8. Experimental protocol
9. Presentation of data
10. Analysis and Conclusions
11. Presentations
12. Research manuscript writing
13. Thesis Writing
14. Viva Voce

Reference Books (Composite list for theory and practicals)

1. Kothari C. R., Research Methodology Methods and Techniques, New Age International.
2. Kumar, R. C., Research Methodology. APH Publ Corporation, New Delhi.
3. Good C. V., Scates, D. E., Methods of Research, Appleton-Century-Crofts.
4. Day R.A. How to write and publish a scientific paper, Part 274, Volume 994, Oryx Press.
5. Alley, M., The Craft of Scientific Writing, Springer Science and Business Media.
6. Cooray P.G. Guide to Scientific and Technical Writing.