Research Methodology : An Introduction
Meaning and objectives of research, types of research, research approaches, research methods vs. methodology, research and scientific method, research process.

Research Design
Meaning and need of research design, features of a good design, important concepts relating to research design, different research designs, basic principles of experimental design.

Processing and Analysis of Data
Processing operations, statistics in research, measures of central tendency, measures of dispersion, measures of asymmetry (skewness), simple regression analysis, multiple correlation and regression.

Interpretation and Report Writing
Meaning and technique of interpretation, significance of report writing, different steps in writing a report, layout of the research report, types of reports, mechanics of writing a research report.

Reference:
(2) Published Research Papers in the relevant / respective fields
Course 2: Computer Applications

No. of credits: 3

- Study of tools/technologies relevant to the domain of research work.
- Study of current trends prevailing in the domain of research problem.

Course 3: Literature Review

No. of credits: 3

- Review of published research in the relevant field
- Presentations focusing on review of publications

References:

- Journals relevant to the field of research work
- Walid B. Shahid, Applying the research and lessons from your own reviews, 2011.