Course Modules:

Research Philosophies and paradigms

Six systems of Indian Philosophy- Introduction

Research paradigms in Indian philosophical system

Eastern & western paradigms-critical overview

Research Ethics)

Ethics from Indian knowledge system perspective (IKS)

Evolution of human research ethics

Literature review and referencing

Review of classical scriptures of Indian philosophy

Relevant modern science literature review

Sampling methods

Non-probability sampling methods

Probability sampling methods

Research designs

Experimental designs

Non-experimental designs

Clinical trial and control techniques

Confounders and control techniques

Controlled clinical trials (CCT)

Logic of hypothesis testing

Null hypothesis significance testing (NHST)

Steps of hypothesis testing

Data collection methods

Measurement errors and bias

First person subjective methods

Third person objective methods

Procedure for conducting research

Ethics committee approval

Clinical trial registration

Informed consent/assent

Pilot study- need and importance

Protocol- apriori design vs interim modifications

Managing adverse effects

Fundamentals of qualitative research

Major qualitative research approaches

Validity & reliability in qualitative research

Technical software for Research scholars

Itranslator- for Sanskrit transliteration

R & Jamovi-for statistical analysis

Zotero-for referencing

Statistics overview-1

Descriptive statistics

Fundamentals of inferential statistics

Statistics overview-2

Choosing the right statistical tests

Scientific writing

Classical scriptures perspective

Modern science perspective