Detailed Day-Wise Schedule:

Key Topics Covered – Day 1 – Overview

Day 1: Foundations of Scholarly Publishing, Literature Search and Referencing

- Scholarly publishing landscape and types of journal articles
- Structure of research and review articles
- Literature search in databases and identifying the research gap
- Citing while writing and reference management

Session 1 (9:00 AM – 10:35 AM): Introduction to the scholarly publishing landscape and pre-test

- Why publish: projects, higher studies and careers
- Types of publications and how a paper travels from idea to print
- Pre-course test

Session 2 (10:50 AM – 12:40 PM): Anatomy of a research article and a review article

- IMRaD structure and the role of each section
- Structure of a review article; title, abstract and keywords

Session 3 (1:40 PM – 2:45 PM): Literature search in databases and finding the research gap

- Scopus, Web of Science, PubMed and Google Scholar; library e-resources
- Keywords, Boolean operators and filters
- From reading list to research gap

Session 4 (3:00 PM – 4:30 PM): Citing while writing: styles, in-text citations and reference management

- Citation styles: APA, Vancouver, IEEE and journal styles
- Building a reference library and citing in MS Word (Mendeley)
- Common referencing errors

Key Topics Covered – Day 2 – Overview

Day 2: Research Data Analysis with R, Journal Selection and Submission

Session 1 (9:00 AM – 10:35 AM): Basic statistics and analysis of research data with R - I

- Installing R and RStudio; the RStudio interface
- Data types, vectors and data frames; importing data from Excel/CSV
- Descriptive statistics: mean, median, standard deviation and standard error

Session 2 (10:50 AM – 12:40 PM): Basic statistics and analysis of research data with R - II: Plotting and analysis of data

- Plotting research data: bar charts with error bars, box plots and scatter plots (base R and ggplot2)
- Basic statistical tests

Session 3 (1:40 PM – 2:45 PM): Choosing the right journal and avoiding predatory ones

- Indexing and journal metrics
- Journal finder tools and open-access models
- Identifying predatory and cloned journals

Session 4 (3:00 PM – 4:30 PM): Understanding the submission process, journal guidelines and responsible use of AI

- Guide for Authors, cover letter and declarations
- Online submission systems
- Publisher policies on AI use and disclosure

Key Topics Covered – Day 3 – Overview

Day 3: Writing a Research Article

- Abstract and introduction
- Materials and methods; tables and figures
- Results and discussion

- Conclusion, reference check and revision

Session 1 (9:00 AM – 10:35 AM): Research article: writing the abstract and introduction

- Structured abstract and informative title
- Introduction: context, gap and aim

Session 2 (10:50 AM – 12:40 PM): Materials and methods, and presenting data (tables and figures)

- Writing reproducible methods
- Choosing and formatting tables and graphs; figure standards

Session 3 (1:40 PM – 2:45 PM): Drafting of results and discussion

- Reporting results in order of figures
- Interpreting and comparing with published work

Session 4 (3:00 PM – 4:30 PM): Conclusion, reference check and revision of the abstract of the research article draft

- Writing the conclusion
- Reference check and revision of the abstract

Key Topics Covered – Day 4 – Overview

Day 4: Writing a Review Article

- Types of review articles
- Planning, literature matrix and outline
- Drafting body sections with synthesis
- Conclusion, reference check and revision

Session 1 (9:00 AM – 10:35 AM): Review articles: introduction and types

- Narrative, systematic, scoping, bibliometric and mini-reviews
- Structure of a general review; defining scope

Session 2 (10:50 AM – 12:40 PM): Drafting a review I: abstract, introduction and literature matrix

- Building a literature matrix
- Drafting the review abstract and introduction

Session 3 (1:40 PM – 2:45 PM): Drafting a review II: body sections

- Summary versus synthesis; thematic headings
- Summary tables and critical comparison

Session 4 (3:00 PM – 4:30 PM): Conclusion, reference check and revision of the abstract of the review article draft

- Future perspectives and conclusion
- Reference check and revision of the abstract

Key Topics Covered – Day 5 – Overview

Day 5: Scientific Illustration, Ethics, Peer Review and Project Outcomes

- Scientific illustration and graphical abstracts
- Publication ethics and plagiarism
- Peer review, revision and acceptance
- Publication, patent and copyright outcomes from projects

Session 1 (9:00 AM – 10:35 AM): Scientific illustration: BioRender and free alternatives; graphical abstract

- BioRender workflow and licence conditions
- Designing a graphical abstract

Session 2 (10:50 AM – 12:40 PM): Publication ethics and plagiarism

- Research misconduct and authorship
- Types of plagiarism
- Reading a similarity report

Session 3 (1:40 PM – 2:45 PM): Peer review, revision and paper acceptance

- Types of peer review and editorial decisions
- Responding to reviewers
- Proofs, copyright and open access

Session 4 (3:00 PM – 4:30 PM): Identifying project outcomes: publication, patent, copyright and beyond

- Matching project results to outcomes
- Patent and copyright basics; filing before disclosure
- Post-test, feedback, valedictory