RESEARCH: QUALITY, PRODUCTIVITY, AND IMPACT

Detailed Content:

- **Day 1 (15th April): Introductions and contexts**
  - Science, research, and the society
  - The research context: inputs and outputs
  - Defining quality, productivity, and impact
  - Measuring quality, productivity, and impact
  - Relationship between quality, productivity, and impact
  - The research productivity equation
  - Research ethics and impact on quality, productivity, and impact
- **Day 2 (22nd April): Consequences of poor quality and non-impact research**
  - Global perspectives and trends
  - Economic aspects
  - Research values versus wastage
  - Research frauds and misconducts: case studies
- **Day 3 (29th April): Thinking quality and impact in the research**
  - The research process: an overview
  - Framework for thinking quality and impact in the research process
  - Quality and impact in research question formulation
- **Day 4 (6th May): Quality and impact in study implementation**
  - Setting up the research team
  - Setting up the study context
  - Look before you leap: importance of the protocol/study plan
  - Quality in participant recruitment
  - Quality in developing study instruments and measurements
- **Day 5 (13th May): Quality in data collection**
  - Main types of data collection methods
  - Benefits of good data collection
  - Integrating quality in data collection
  - Data collection gone wrong: avoiding pitfalls of poor data collection

Detailed Content (continues):

- **Day 6 (20th May): Quality in data analysis (part 1)**
  - Pre-data analysis considerations
  - Reproducibility considerations
  - Quality in data cleaning
  - Quality in variable definition and coding
- **Day 7 (27th May): Quality in data analysis (part 2)**
  - First things first: the data analysis protocol and how to develop it
  - Reproducibility practices in data analysis: benefits of the syntax file and how to create it reproducibly
  - Choosing the right analysis approaches for your data
  - Performing the data analysis: key considerations
- **Day 8 (3rd June): Quality in data analysis (part 3)**
  - Quality in interpreting results: whad do your findings mean
  - Overinterpretation, exaggeration, and overconfidence
  - Staying withing the limits and consequences of off-limits
  - Storytelling in data interpretation
- **Day 9 (10th June): Quality in writing up research findings**
  - Setting the context: quality in literature review
  - Quality in referencing
  - Being collegiate enough: tips and tricks to avoid plagiarism
- **Day 10 (17th June): Quality in publishing**
  - Quality and choice of what to publish
  - Cherry-picking versus patriotism
  - Reporting guidelines and research quality
  - Quality in choice of journals
  - Quality in manuscript review processes
  - From idea to quality and impact: finding the steps in a thousand mile
- **Day 11 (24th June): Group presentations and conclusions**
- **Day 12 (1st July): Group presentations and conclusions**