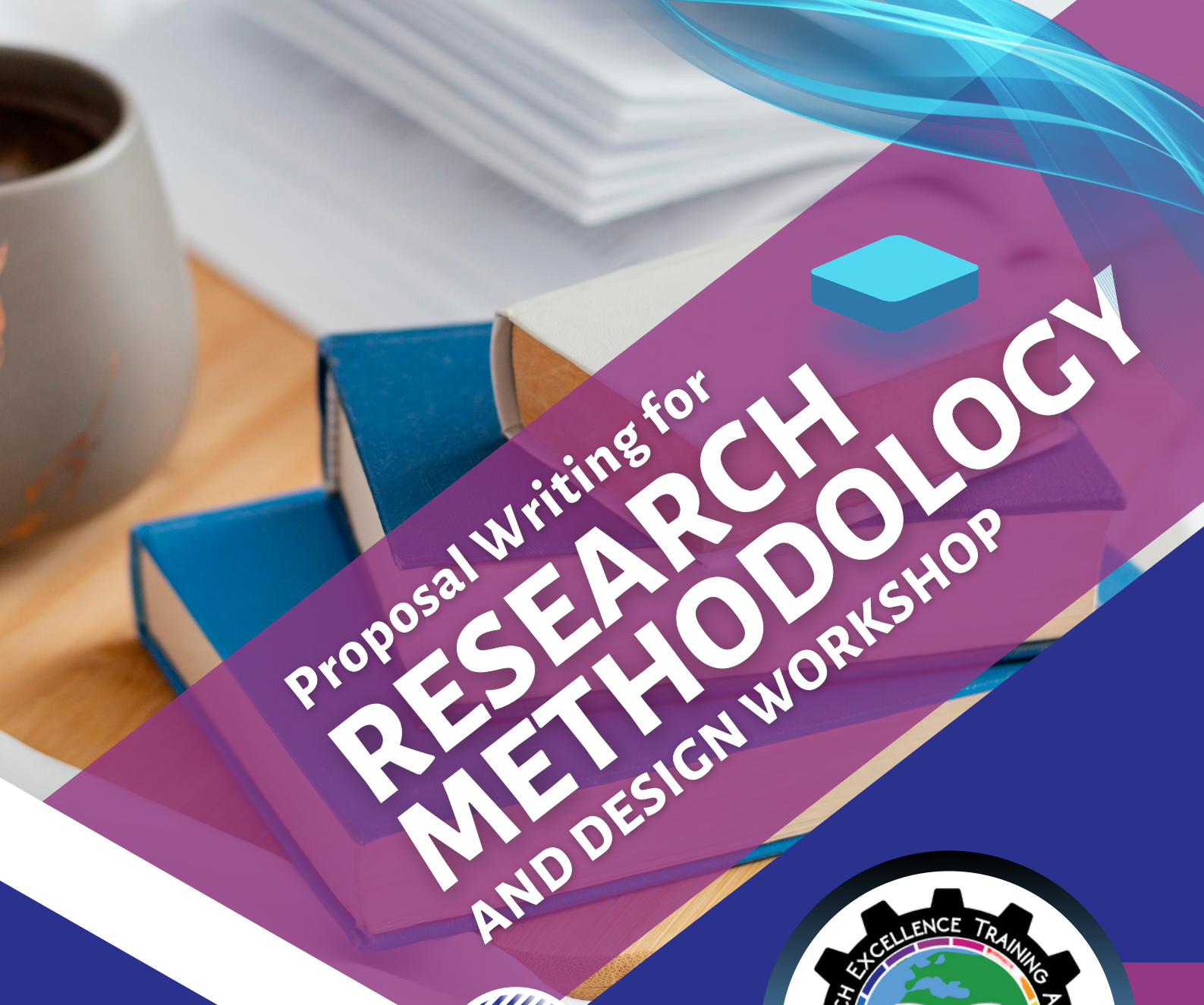

Proposal Writing for RESEARCH METHODOLOGY AND DESIGN WORKSHOP

RESEARCH EXCELLENCE TRAINING ACADEMY

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Day 1

Session 1: Research and Research Process

- What is Research? – Research defined
- Research as a Scientific Process
- Research and gathering data
- Research and processing information
- Reasons for doing research
- What makes a postgraduate research worth it?
- What makes a Good Postgraduate Research Proposal?

1

Session 2: Research Philosophy

- Research Philosophical Aspects
- Defining Ontology (Subjective and Objective Ontology)
- Defining Epistemology (Research Paradigms – Positivist, Interpretivist/ Constructivist and Critical Realism)
- Defining Axiology
- Relationship between and among Ontology, Epistemology and Axiology
- Research Approaches and processes (Deductivism, Inductivism and Abductivism)
- Research types (Quantitative, Qualitative and Mixed method research)
- Relationships between Research paradigms, Research approaches and Research types

2

Session 3: Comparative Analysis of Research Paradigms, Types, Approaches and Research Design

- Comparison of Research Paradigms
- Comparison of Research types and approaches
- What is Research design?

3

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Day 2

Session 4: Conceptualising a Quantitative Research Design

Kick starting a Quantitative Research – A Template

- Steps to initiate a quantitative academic research (Template)
- Conceptualizing a Research Model
- Research Idea and refining a research Topic based on a Conceptual Model
- Deriving Research Purpose, Research Objectives, Research Questions and Research Hypotheses from a Conceptual Model
- Determining Literature Review Components based on Conceptual Model
- Determining the Measurement Instruments based on the Conceptual Model
- Determining the Data Analysis Approach and Statistical Software based on the Conceptual Model

1

Session 5: Non-Experimental Research Design

Quantitative Survey Study

- Sampling Design
  - Target Population
  - Sampling Frame
  - Sample Size
  - Sampling Method
- Measurement Instruments/ Questionnaire Design
  - Developing Measurement Instruments
  - Adapting measurement Instruments
  - Adopting measurement Instruments
  - Sources and Quantity of Instruments
  - Likert Scales for Survey Research
- Data Collection Techniques
- Data Analysis Approaches
- Assessment of measurement Reliability and Validity

2

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Session 6: Experimental Research Design

- Types of Experimental designs
- Types of True Experimental Research Designs
- Types of Quasi-Experimental Research Designs
- Types of Pre-Experimental Research Designs



Day 3

Session 7: Qualitative Research Design

- What, Why & When – Qualitative Research and Its Functions?
- Philosophical Perspectives on Qualitative Research – (Phenomenology, Ethnography and Grounded Theory.
- Skills required for Qualitative Research
- Sampling design for a Qualitative study
  - Sampling method
  - Sample Size
- Data Collection Methods
  - Interviews
  - Focused Group Discussions
  - Observations
- Qualitative Data Analysis
- Steps in Qualitative Data Analysis
- Data Sources for Analysis and Interpretation

1

Section 8: Qualitative Research Design & Mixed Method Research

Qualitative Research Design

- Ensuring Reliability and Validity of a Qualitative study
- Assessing trustworthiness of findings
- Qualitative Data Analysis Software

Mixed Method Research

- What is Mixed method Research
- Why Mixed method Research
- Types of Mixed Method Research
- Types Concurrent Mixed Method Designs
- Types of Sequential Designs
- Research Map

Ethical Considerations

- Defining ethical considerations or ethical issues.
- Research Purpose and the participants rights.
- Ethics clearance from Ethics Committee

2

PRACTICALS, QUESTIONS AND ANSWERS

- Discussion of Research Philosophy and Research Designs for Qualitative, Quantitative and Mixed Method
- Questions and Answers

3

