

Advanced Research Methodology: Techniques and Applications

*Lyon (France)*

*20 - 24 October 2025*

UK Training

**PARTNER**



## Advanced Research Methodology: Techniques and Applications

Code: PS28 From: 20 - 24 October 2025 City: Lyon (France) Fees: 4200 Pound

### Introduction

Welcome to the Advanced Research Methodology course! In today's rapidly evolving world, research methodology is crucial in advancing our understanding of various phenomena, from social dynamics to technological innovations. This course provides the latest tools and techniques essential for conducting sophisticated research across diverse fields. Whether you're interested in quantitative research, qualitative research, or mixed-methods research, this course will equip you with the knowledge and skills needed to conduct high-quality, impactful research.

### Course Objectives

The primary goal of this course is to provide participants with the advanced knowledge and skills needed to apply modern research methodologies across different academic and professional fields. The key objectives of the course include:

- Familiarizing participants with types of research methodologies, including quantitative research methodologies, qualitative research methodologies, and mixed-methods research methodologies.
- Exploring advanced techniques for data collection, analysis, and interpretation to ensure robust and reliable research outcomes.
- Examining the role of ethical considerations and research limitations in shaping the research process.
- Empowering participants to critically evaluate and select appropriate sampling designs for their research projects.
- Offering practical insights through case studies, showcasing the application of modern research methodologies in real-world scenarios.

### Course Outlines

#### Day 1: Understanding Modern Research Methodology

- Introduction to research methodology: its evolution and significance in contemporary research.
- Theoretical frameworks: exploring paradigms that guide research design and execution.
- Emerging trends in research methodology: adapting to the dynamic research landscape.

#### Day 2: Quantitative Research Methods

- Core principles of quantitative research: measurement, variables, and hypothesis testing.
- Experimental design: control, manipulation, and randomization for causal inference.

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- Advanced statistical techniques: regression analysis, factor analysis, and structural equation modeling.

### Day 3: Qualitative Research Methods

- Foundations of qualitative research: methods, data collection, and analysis.
- Ethnography, phenomenology, and grounded theory: understanding different qualitative approaches.
- Innovative techniques in qualitative data analysis: thematic analysis, narrative inquiry, and discourse analysis.

### Day 4: Mixed-Methods Research

- Integrating quantitative and qualitative approaches: benefits and challenges.
- Sequential and concurrent mixed-methods designs: strategies for synergy.
- Case studies: illustrating the application of mixed-methods research in interdisciplinary studies.

### Day 5: Sampling Designs and Ethical Considerations

- Probability sampling methods: simple random, systematic, stratified, and cluster sampling.
- Nonprobability sampling techniques: convenience, purposive, snowball, and quota sampling.
- Ethical considerations in research: informed consent, confidentiality, and integrity in data collection and dissemination.

### Conclusion

By completing the Advanced Research Methodology course, you will earn an accredited certificate in research methodology, enhancing your research capabilities and giving you a competitive edge in your field. You will be able to apply best practices in research methodology, ensuring your research outcomes are both accurate and reliable. Additionally, this course will provide you with the skills to understand the steps of research methodology in proposals and throughout the research process.

Join us today and take your research to the next level!



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