

October - December, 2023



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Scientific Research Workshops
- A Practical Perspective

Course Description

- ❖ This file provides a schedule for a series of workshops (10) focused on scientific research methodology and statistical analysis.
- ❖ It is important to note that these webinars/ workshops emphasize a practical and applied approach to the various steps of scientific research.
- ❖ The instructor will utilize interactive technological tools to engage with participants in the workshops, which are all related to the scheduled topics.

Course Objectives

1. Understand the fundamental concepts and principles of research methodology.
3. Identify and define research variables accurately.
4. Select an appropriate research title that reflects the study's scope and purpose.
5. Develop a well-structured research proposal with all essential components.
6. Conduct a thorough literature review to identify research gaps and develop a theoretical framework.
7. Formulate focused and answerable research questions.
8. Develop clear and measurable research objectives.
9. Formulate testable hypotheses aligned with research questions and objectives.
10. Create a research model that visualizes the relationships between variables.
11. Select an appropriate research design based on research objectives.
12. Choose suitable sampling methods for data collection.
13. Utilize various data collection and measurement techniques effectively.
14. Analyze and interpret research findings accurately.
15. Develop practical recommendations based on research findings.

16. Cite and reference sources appropriately to maintain academic integrity.
17. Consider and address ethical considerations in research.
18. Understand the role and potential of AI tools in research.
19. Apply descriptive statistical analysis techniques.
20. Assess instrument validity and reliability.
21. Utilize SPSS to test research hypotheses.
22. Understand the publishing process for research papers.

Learning Outcomes:

1. Understand the fundamental concepts and principles of research methodology.
2. Incorporate personal interests and insights into research to create a unique perspective.
3. Identify and define research variables accurately.
4. Select an appropriate research title that reflects the study's scope and purpose.
5. Develop a well-structured research proposal with all essential components.
6. Conduct a thorough literature review to identify research gaps and develop a theoretical framework.
7. Formulate focused and answerable research questions.
8. Develop clear and measurable research objectives.
9. Formulate testable hypotheses aligned with research questions and objectives.
10. Create a research model that visualizes the relationships between variables.
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Course Assessment

- At the end of the course, you will be required to complete a comprehensive assessment to evaluate your understanding and knowledge gained throughout the semester. This assessment will consist of multiple-choice questions (MCQ), true or false questions, and voice-based questions. The purpose of this assessment is to measure your comprehension of the course material and your ability to apply it.
- The assessment will be conducted in both English and Arabic languages to ensure that you have a fair opportunity to demonstrate your understanding in your preferred language.

The table below displays dates, number and titles of workshops, and the specific topics that will be covered in each of them.

Scientific Research Workshops

Date	Time	Theme	Session Outline
Friday: 6/10	7 pm-9 pm	"Empowering Research: Practical Approaches to Selecting the Perfect Research Title"	1 • Introduction to Research Methodology • Have a finger print in your thesis • Research variables • Select a research title
Monday: 16 /10	9 pm-11 pm	"Building the Foundation: A Research Proposal for A field of business administration and project management]"	2 • Research Process • Research proposal components • Research Questions • Research Objectives • Research Hypotheses • Research Model
Tuesday; 31 / 10	9 pm-11 pm	"The role of Literature Review and AI Tools in Research "	3 • Literature Review • Table of Previous Studies • Theoretical Framework • AI tools in research
Wednesday; 8 / 11	9 pm-11 pm	"Mastering Research Design and Sampling Methods: A Comprehensive Guide"	4 • Research Design • Sampling Methods

Wednesday; 15 / 11	9 pm- 11 pm	"Achieving Reliable Results: Effective Data Collection and Measurement Techniques"	5	• Data Collection and Measurement Techniques
Wednesday; 22 / 11	9 pm- 11 pm	"The Art of Scientific Writing: Conveying Research Findings, Recommendations, and References"	6	• Writing Research Findings • Research Recommendations, • References
Wednesday; 29 / 11	9 pm- 11 pm	"Responsible Conduct in Research: Addressing Plagiarism and Publication Process in Research"	7	• Avoiding Plagiarism • . Ethical considerations in research • The publishing process for research papers.
Wednesday; 06 / 12	9 pm- 11 pm	"Build Your Statistical Analysis Skills: A Comprehensive Introduction"	8	• Introduction to Statistical Analysis (descriptive approach)
Thursday 07 / 12	9 pm- 11 pm	Enhancing Research Instrument Design: A Statistical Approach for Ensuring Validity and Reliability.	9	• Instrument Validity tests • Instrument Reliability tests
Friday; 08 / 12	7 pm-9 pm	"From Data to Decisions: Statistical Analysis and Hypothesis Testing "	10	• Testing research hypotheses via SPSS

Best Of Luck ☺

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