



برنامج الماجستير المهني "Monitoring and Evaluation"

توصيف مقرر
Quantitative Methods for Monitoring and
Evaluation



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الدراسات العليا

توصيف مقرر

Quantitative Methods for Monitoring and Evaluation



<u>Core Courses</u>							
<u>Level two</u>							
sr	Course Title	Code	TH	PH	CH	CU	Pre-Req.
2	Quantitative Methods for Monitoring and Evaluation	PME-106	30	15	45	3	PME-104
Course Specification:							
<p>Monitoring and evaluation means assessing the quality of a program and its overall impact. This course tackles the quantitative or statistical aspects of monitoring and evaluation: what and how to measure, in addition to how to analyse and make inference for the different steps of program's implementation. The course covers quantitative components of M&E, both current and innovative methods. Topics include questioning the validity of data, constructing statements of work for performance and impact evaluation, conducting T-tests, ANOVA, ANCOVA, matching, difference in differences, regression discontinuity in program evaluation, and disseminating quantitative findings. This course explores quantitative methods in project planning, monitoring, and evaluation. It provides opportunities for students to design quantitative evaluations and apply statistical measures to test hypotheses. Students will explore the use of statistical software in managing and manipulating data and the production of descriptive and analytical reports that meet the guidelines and expectations of professional practitioners in the field. In addition to using various statistical procedures; descriptive statistics, correlation, and graphical representation of data through inferential techniques, variance, and more techniques.</p>							
Course Prerequisites:							
PME-104 : Statistical Methods/Tools :Statistics Methods .							
Course Objectives:							
<ul style="list-style-type: none"> • The main objective of this course is to explore qualitative tools and methods used to evaluate, present, and communicate data (big and small). • Students will also learn how to summarize and deliver findings to stakeholders so they will make informed decisions to improve the overall quality and efficiency of an organization 							
Course Outcomes:							
Upon the completion of this course, students should be able to:							



- Figure out the different types of quantitative research.
- Identify and describe the different types of validity and reliability.
- Develop and test a hypothesis using quantitative research methods.
- Apply various descriptive and inferential statistics.
- Use statistical software for data management, analysis, and presentation of findings.
- Evaluate different strategies to analyse quantitative data.
- Figure out the importance of ethical considerations of collecting quantitative data.

Course Contents:

Course's Topics:

- Introduction to quantitative research
- Sampling and questionnaire design.
- Collecting and managing quantitative data
- Measures of central tendency
- Correlations
- T-test and analysis of variance
- Regression analysis
- Examples of assignments include:
 - Research project (case studies applied on students' communities).
 - Data collection plan
 - Applying variables
 - Data analysis and visualization
- Regression analysis

COURSE ASSESSMENT:

Participation and Discussion	10%
Quizzes	10%
Individual Assignment	15%
Mid –Term Exam	15%
Final Exam	50%

Key References:



- Managing for impact in rural development , A guide to Monitoring and Evaluation, Methods for Monitoring and Evaluation available at: <http://site.iugaza.edu.ps/walhabil/files/2017/12/Methods-for-Monitoring-and-Evaluation.pdf>
- Cardno (2017) Toolkit for Monitoring and Evaluation Data Collection, Pacific Women Shaping Pacific Development Cardno Emerging Markets.
- Any other materials relevant to the course topics.