



UNIVERSITI TEKNOLOGI MARA

EDU702: RESEARCH METHODOLOGY

Course Name (English)	RESEARCH METHODOLOGY APPROVED
Course Code	EDU702
MQF Credit	3
Course Description	This course introduces learners to the basics of educational research. The course focuses on the various concepts and philosophies underlying academic research in the field of education. It aims at developing students' understanding of research methodology with emphasis to aspects such as the identification of the research problem, formulating research objectives and research questions. It also involves aspects such as research strategies, research design, data collection and data interpretation techniques. Upon completion of this course, students are required to have the ability to define a research problem and prepare a research proposal. This course is compulsory for all learners who intend to undertake a post graduate degree at the Master's level. The learners are expected to do a lot of independent and critical reading of research journals and conducting research.
Transferable Skills	Demonstrate ability to identify and articulate self skills, knowledge and understanding confidently and in conducting a research
Teaching Methodologies	Lectures, Blended Learning, Discussion
CLO	<p>CLO1 Acquire a good knowledge and understanding of the concepts and philosophies underlining basic educational research.</p> <p>CLO2 Select and make a clear statement of a research issue and justify a research approach, methodology, data collection and analysis techniques appropriate for the specific research issue</p> <p>CLO3 Evaluate and critically review educational research articles and reports. ie educational research articles and reports.</p> <p>CLO4 Design a research and develop a research proposal that addresses an appropriate research problem with related literature review and appropriate research methodology.</p>
Pre-Requisite Courses	No course recommendations
Topics	
1. Introduction to Educational Research 1.1) • Introduction to Educational Research 1.2) • Definition, concepts and philosophies 1.3) • Researchable area	
2. Defining the Research Problem 2.1) Research topic and research problem 2.2) Research questions 2.3) Variables and Hypothesis	
3. Types of Educational Research 3.1) Quantitative Research Methodologies 3.2) i. Experimental research 3.3) ii. Correlational research 3.4) iii. Causal comparative research 3.5) iv. Survey research 3.6) Qualitative Research methodologies 3.7) i. Case studies 3.8) ii. Ethnographic research 3.9) iii. Historical research	

4. Limitations of study, significance, and operational definitions 4.1) n/a
5. Review of Literature 5.1) Value of a literature review 5.2) Types of sources 5.3) Steps involved in a literature review 5.4) Writing a literature review
6. Research Designs 6.1) n/a
7. Population and Sampling 7.1) Differences between population and sample 7.2) Sampling techniques
8. Instrumentation 8.1) Questionnaires 8.2) Tests 8.3) Interviewing 8.4) Observation 8.5) Document analysis 8.6) Content analysis 8.7) Reliability and validity
9. Ethics in Research 9.1) Ethical principles in conducting research 9.2) Issues in plagiarism
10. Analysis of Data 10.1) Overview of Quantitative data analysis 10.2) Overview of Qualitative data analysis
11. Writing a Research Proposal 11.1) Chapter 1 – The Study 11.2) Chapter 2 – Review of related literature 11.3) Chapter 3 – Research methodology 11.4) Citations and References

Assessment Breakdown		%	
Continuous Assessment		100.00%	

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Research article critique	15%	CLO3
	Presentation	Presentation	20%	CLO2
	Test	Test	25%	CLO1
	Written Report	Research Project	40%	CLO4

Reading List	Recommended Text
	<ul style="list-style-type: none"> • Chua Yan Piaw 2020, <i>Mastering research methods. (3rd ed.). Malaysia: McGraw-Hill</i>, 3 Ed., McGrawHill Malaysia • Hoy, W. K., & Adams, C. M. 2016, <i>Quantitative research in education: A primer.</i>, Sage Publications • Fraenkel, J.R. Wallen, N.E., & Hyun, H.H 2012, <i>How to Design and Evaluate Research in Education</i>, McGraw Hill Inc. New York

Reading List	Reference Book Resources
	<ul style="list-style-type: none"> • Creswell, J. W. 2014, <i>Research design: A qualitative, quantitative, and mixed methods approaches.</i>, 4 Ed., SAGE Publications, Incorporated. Lincoln: • Parmjit, S., Chan, Y. F. & Sidhu, G.K. 2006, <i>A comprehensive guide to writing a research p</i>, Ed., , Malaysia: Venton [ISBN:] • Flick, U. 2018, <i>Designing qualitative research.</i>, Sage. • Barbour, R. S., & Barbour, R. 2018, <i>Doing focus groups</i>, 4 Ed., Sage. • Leavy, P. 2017, <i>Research design: Quantitative, qualitative, mixed methods, arts-based, and community-based participatory research approaches</i>, Guilford Publications.

Article/Paper List	This Course does not have any article/paper resources
Other References	This Course does not have any other resources