

COURSE SYLLABUS (EDU702)

Course Information			
Course:	Research Methodology		
Semester:	July – October	Year: 2010	Phone: 0163434535, 0182167978, 03 55227406
Core Person /Instructor:			Associate Professor Dr. Izaham Shah Ismail
Office Hours	SMS to check availability		
Texts	Fraenkel, J.R & Wallen, N.E. (2010). How to Design and Evaluate Research in Education. New York: McGraw Hill Inc.		

Course Description
<p>This course introduces learners to the basics of educational research. The course focuses on the 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 and the formulation of 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 students 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.</p>

Course Outcomes
<p>Upon completion of EDU 702 a student will be able to:</p> <ul style="list-style-type: none"> • Demonstrate good knowledge and understanding of the concepts and philosophies underlining educational research • 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 • Design and develop a research proposal that addresses an appropriate research problem with related literature review and appropriate research methodology • Evaluate and critically review educational research articles and papers.

Grading Policies		
The grading scale as explained in the course catalog will be used: 80-100% = A 65-69% = B 50-54% = C 75-79% = A- 60-64% = B- 70-74% = B+ 55-59% = C+		
Presentation	In their presentation students will demonstrate a critical and conceptual understanding of their reading of a topic. It is also an evidence of their ability to communicate effectively in speaking.	15%
e-Portfolio	Students will develop an e-portfolio that encompasses their work throughout the semester. This includes write-ups, collection and reflection of articles, reflection on tasks etc.	10%
Article Review	In their writing, students will exhibit their ability to read, understand and critically review an article to display their understanding and analysis of research methodology aspects such as identification of the research methodology employed. It is also an activity of their ability to communicate effectively in writing	15%
Quizzes	In their quizzes, students will demonstrate their ability to recall their knowledge and understanding of the various components involved in research methodology such as differences between qualitative and quantitative research methodologies, sampling and data collection and data analysis techniques.	25%
Research Proposal	In their writing and presentation of the research proposal students will display their ability to use information and knowledge gathered from the course to write a research proposal outlining the research problem, a concise literature review and a description of the research methodology employed. Students will also need to integrate theory into practice as well as reflect on professional practice and ethical issues in order to display a conceptual understanding of the area under investigation. It is also an evidence of their ability to communicate effectively in writing and speaking.	35%
	TOTAL	100%

Course Content

1. Introduction to Educational Research
 - i. Research as a scientific inquiry
 - ii. Nature of research
2. Defining the Research Problem
 - i. Research topic and research problem
 - ii. Research questions
 - iii. Variables and Hypothesis
3. Review of Literature
 - i. Value of a literature review
 - ii. Types of sources
 - iii. Steps involved in a literature review
 - iv. a literature review
4. Population and Sampling
 - i. Differences between population and sample
 - ii. Sampling techniques
 - iii. Validity and reliability
5. Types of Educational Research
 - i. Quantitative Research Methodologies
 - ii. Experimental research
 - iii. Correlational research
 - iv. Causal comparative research
 - v. Survey research
6. Qualitative Research methodologies
 - i. Case studies
 - ii. Ethnographic research
 - iii. Historical research
 - iv. Phenomenology
7. Mixed Method
 - Action Research
 - Development Research
8. Instrumentation
 - i. Questionnaires
 - ii. Tests
 - iii. Interviewing
 - iv. Observation
 - v. Document analysis
 - vi. Content analysis
 - vii. Reliability and validity
9. Analysis of Data
 - i. Quantitative data analysis
 - ii. Qualitative data analysis
10. Ethics in Research
 - i. Ethical principles in conducting research
 - ii. Issues in plagiarism
11. Writing a Research Proposal
 - i. Chapter 1 – The Study
 - ii. Chapter 2 – Review of related literature
 - iii. Chapter 3 – Research methodology
 - iv. Citations and References

Scheme of work

Week	TOPIC	Reference
1 5/7– 9/7	<ul style="list-style-type: none"> • Introduction to Course – EDU 702 • Introduction to Educational Research 	Read Assigned Readings: Fraenkel & Wallen Part 1 - Chpt. 1
2 12/7– 16/7	<ul style="list-style-type: none"> • Introduction to Writing a Research Proposal 	Read Assigned Readings: Fraenkel & Wallen, Part 4 - Chpt. 24
3 19/7– 23/7	<ul style="list-style-type: none"> • Defining the Research Problem • Literature Review 	Read Assigned Readings: Fraenkel & Wallen, Part 2 - Chpt. 2,3 & 5
4 26/7– 30/7	<ul style="list-style-type: none"> • Types of Educational Research Qualitative & Quantitative 	Read Assigned Readings Presentation 1
5 2/8 – 6/8 Seminar	<ul style="list-style-type: none"> • Research Design - Sampling 	Submission of 1st. outline of Research Proposal – Ch. 1 Presentation 2
6 9/8 – 13/8	<ul style="list-style-type: none"> • Instrumentation I – Questionnaires & 	Presentation 3 Quiz 1
7 16 /8 – 20/8 11/8 Fasting Begins	<ul style="list-style-type: none"> • Instrumentation II – Interviews, Checklists, Observations, etc. 	Presentation 4 Submission of Article Review
8 23/8 – 27/8 27/8– Nuzul Quran	<ul style="list-style-type: none"> • Data Analysis I – Qualitative Data 	Presentation 5 Submission of 1st. outline of Research Proposal – Ch. 1&2
9 30/8– 3/9 31/8 Merdeka	<ul style="list-style-type: none"> • Data Analysis II – Qualitative Data 	Read assigned materials
10 6/9 – 9/9	<ul style="list-style-type: none"> • Data Analysis I – Quantitative Data 	Read assigned materials Quiz 2
10/9 –	SEMESTER / EID BREAK	

19/9		
11 20/9 – 24/9	<ul style="list-style-type: none"> Data Analysis II – Quantitative Data 	Read assigned materials Submission of 1st. outline of Research Pro. – Ch. 1,2&3
12 27/9 – 1/10	<ul style="list-style-type: none"> Writing a Research Proposal & Research Ethics 	Read assigned materials
13 4/10– 8/10	<ul style="list-style-type: none"> Presentation of Research Proposal 	Presentation of Research Proposal
14 11/10 – 15/10	<ul style="list-style-type: none"> Presentation of Research Proposal 	Presentation of Research Proposal
15 16/10 – 24/10	Revision Week	
16 25/10 – 14/11	Final Examination	
15/11 – 26/12	Semester Break	