



## UNIVERSITI TEKNOLOGI MARA

### ALS701: RESEARCH METHODOLOGY

<b>Course Name (English)</b>	RESEARCH METHODOLOGY <b>APPROVED</b>
<b>Course Code</b>	ALS701
<b>MQF Credit</b>	3
<b>Course Description</b>	This course is designed to give a practical and hands-on introduction to the use of qualitative and quantitative methods and conduct meaningful inquiry in applied language research. The course focuses on the essential elements of qualitative, quantitative research and mixed methods and types of research designs. Attention will be given to qualitative and quantitative research design and procedures for data collection, data processing and analysis. Because of the scope of the course is quite broad, it will not be possible to cover all of the details of all of the research methods that are currently being used. Nevertheless, at the end of the course, the students demonstrate their knowledge and skills required when conducting meaningful inquiry in applied language research.
<b>Transferable Skills</b>	- Demonstrate ability to identify and articulate self skills, knowledge and understanding confidently and in a variety of contexts (Reflective Learner) - Demonstrate ability to manage personal performance to meet expectations and demonstrate drive, determination, and accountability (Resourceful and Responsible) - Demonstrate ability to communicate clearly and confidently, and listen critically (Effective Communicator) - Demonstrate maturity of thoughts when responding to multiple inputs and contexts (Balanced graduate - Intellectual-Spiritual -Emotional)
<b>Teaching Methodologies</b>	Lectures, Case Study, Problem Based Learning (PBL), Discussion, Presentation, Journal/Article Critique
<b>CLO</b>	CLO1 Demonstrate communication skills and team work in written or oral in applied language research (A3) CLO2 Analyze a problem (set of data) using appropriate data analysis technique in applied language research (C4) CLO3 Demonstrate information management and retrieval skills in applied language research (A3)
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	
<b>1. Introduction to Research</b> 1.1) Overview of what is research 1.2) Types of Research, 1.3) The research process	
<b>2. Concepts in Research Process</b> 2.1) Writing a good problem statement 2.2) Research Questions; 2.3) Characteristics of Good Research Questions; 2.4) Research Objective, 2.5) Research Questions, 2.6) Significance of Study , 2.7) Limitation 2.8) Findings 2.9) Conclusion 2.10) Discussion	

<p><b>3. Locating and Reviewing of Literature</b></p> <p>3.1) From lit review students</p> <p>3.2) have aspects of the research questions other researchers have worked on and missed.</p> <p>3.3) could identify research instruments (already used by other researchers)</p> <p>3.4) should be able to identify the framework for data analysis to give the research structure</p>
<p><b>4. Writing a research proposal. for a small scale research project</b></p> <p>4.1) Applying the concepts in research (problem statement, research objective, research questions, significance of study, limitations, review of literature) in writing a proposal for a small scale research project.</p>
<p><b>5. Understand the methodology in research</b></p> <p>5.1) Know the characteristics of qualitative, quantitative and mixed- method research,</p> <p>5.2) Know operational definitions(variables/framework) Variables and Hypotheses;</p> <p>5.3) Know sampling and sampling procedures,</p> <p>5.4) research instruments and instrumentation (What are data, Examples of Data Collection Instruments);</p>
<p><b>6. Presentation of Case Analysis 1</b></p> <p>6.1) Applying the above concepts in research when analyzing research-based articles</p>
<p><b>7. Qualitative, Quantitative Approach and Mixed Methods</b></p> <p>7.1) Designing Instrumentation</p> <p>7.2) The Importance of Valid Instrumentation -Understand how to collect data</p> <p>7.3) Understand reliability and validity in data collection method</p> <p>7.4) Ethics and Research</p>
<p><b>8. Case Analysis -Hands on practice -Analyze a set of data by using appropriate data analysis technique (qualitative)</b></p> <p>8.1) Constant Comparative Method</p> <p>8.2) Using Software in Qualitative</p>
<p><b>9. Case Analysis -Hands on practice -Analyze a set of data by using appropriate data analysis technique (quantitative)</b></p> <p>9.1) Descriptive Statistics</p> <p>9.2) Inferential Statistics- SPSS</p>
<p><b>10. Analysis and Interpretation of: qualitative data</b></p> <p>10.1) Analyzing a problem (set of data) using appropriate data analysis technique in qualitative -content analysis, constant comparative method</p>
<p><b>11. Analysis and Interpretation of: quantitative data</b></p> <p>11.1) Analyzing a problem (set of data) and interpreting the data; Descriptive statistics or Inferential statistics</p>
<p><b>12. Drafting Research Project Paper</b></p> <p>12.1) Applying the following subtopics</p> <p>12.2) Concepts In Research</p> <p>12.3) Research Problem</p> <p>12.4) Research Objective; Research Questions</p> <p>12.5) Reviewing the Literature</p> <p>12.6) Research Methods</p>
<p><b>13. Presentation of Small Scale Research Project</b></p> <p>13.1) Applying the following subtopics</p> <p>13.2) Concepts in Research</p> <p>13.3) Research Problem</p> <p>13.4) Research Objective; Research QEstions</p> <p>13.5) Reviewing the Literataure</p> <p>13.6) Research Methods</p> <p>13.7) Findings</p> <p>13.8) Conclusions</p> <p>13.9) Discussion</p>
<p><b>14. Writing and producing a small scale research project</b></p> <p>14.1) Applying the following subtopics in producing a small scale research project</p> <p>14.2) Concepts in Research</p> <p>14.3) The Research Problem</p> <p>14.4) Research Questions; Research Objectives</p> <p>14.5) Locating and Reviewing the Literature</p> <p>14.6) -Qualitative Research Designs and Methods</p> <p>14.7) Research techniques</p> <p>14.8) Operational definitions(variables/framework) Variables and Hypotheses;</p> <p>14.9) Sampling and sampling procedures, research instruments and instrumentation (What are data, Examples of Data Collection Instruments);</p> <p>14.10) Designing Instrumentation The Importance of Valid Instrumentation</p> <p>14.11) Collecting data</p> <p>14.12) Reliability and validity in data collection method</p> <p>14.13) Ethics and Research</p> <p>14.14) Finidngs</p> <p>14.15) Conclusion</p> <p>14.16) Discussion</p>



<b>Assessment Breakdown</b>	<b>%</b>
Continuous Assessment	100.00%

<b>Details of Continuous Assessment</b>	<b>Assessment Type</b>	<b>Assessment Description</b>	<b>% of Total Mark</b>	<b>CLO</b>
	Case Study	Case Analysis 2: Data set will be given to carry out some initial analysis of the data. The aims are for students to interpret carefully the output of the data (quantitative) and translate the output into some words and simple summary tables or to find emerging themes and categories from qualitative data • MQF 6 LOD - Problem solving	20%	CLO2
	Case Study	Case Analysis 1 =20% Students are allowed and encouraged to work together in pairs/groups to discuss issues raised in the case analysis. The task involves critiques of research studies that have appeared in educational journals. Guidelines will be given to follow in preparing the critiques MQF 5 LOD - Verbal Communication and Teamwork	20%	CLO1
	Individual Project	The task requires students to conduct a small scale project in applied language research using either qualitative or quantitative or mixed methods • MQF 7 LOD - Information Management and Retrieval	60%	CLO3

<b>Reading List</b>	<b>Recommended Text</b>	<ul style="list-style-type: none"> <li>• Creswell, J. 2014, <i>Research Design: Qualitative, Quantitative and Mixed Methods Approaches</i>, 4th edition Ed., SAGE Publications Los Angeles</li> <li>• Johnson, H. and Christensen, L. . . ; 2014, <i>Educational Research: Quantitative, Qualitative and Mixed Approaches.</i>, Fifth edition Ed., Sage Publications Thousand Oaks, CA</li> <li>• Zainudin Awang 2017, <i>Research Methodology and Data Analysis.</i>, 2nd edition Ed., UiTM Press Selangor, Malaysia</li> </ul>
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<b>Article/Paper List</b>	This Course does not have any article/paper resources
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<b>Other References</b>	<ul style="list-style-type: none"> <li>• Book Brown, J. . 2017, <i>Designing and Proposing Your Research Project</i> , United States of America, American Psychological Association, Washington D.C:</li> <li>• Book Bryman, A 2016, <i>Social Research Methods. Oxford</i>; , Oxford University Press, Oxford</li> <li>• Book Daniel, B.K . : 2017, <i>Higher Education Research Methodology: A Step-by-Step Guide to the Research Process</i> , Taylor Francis, London, United Kingdom</li> <li>• Book Paltridge, B. &amp; Pakhiti, A. 2015, <i>Research Methods in Applied Linguistics: A Practical Resource (Research Methods in Linguistics)</i> , Bloomsbury Academic, USA</li> <li>• Book Saldana, J. 2014, <i>Thinking Qualitatively</i>, Sage Publications,, Thousand Oaks: United States of America</li> </ul>
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