

## UNIVERSITI TEKNOLOGI MARA

## ASM601: RESEARCH METHODS

Course Name	RESEARCH METHODS APPROVED					
(English) Course Code	ASM601					
MQF Credit	MQF Credit 3					
	5					
Course Description	This course aims to equip students with the necessary research skills to conduct research in the field of Office Systems and Management. Students will be exposed to research methodologies appropriate to their discipline as well as those most commonly used in other disciplines. Throughout this course, the students will make extensive use of library resources.					
Transferable Skills	The ability to develop English writing skills, probing and problem solving skills. The use of library resources skills are enhanced.					
Teaching Methodologies	Lectures, Lab Work, Case Study, Presentation, Small Group Sessions					
CLO	CLO1 Explain the purpose for conducting research CLO2 Identify a problem and write a research proposal. CLO3 Design a review of literature related to the proposed project. CLO4 Analyze data using appropriate statistical tools.					
Pre-Requisite Courses	No course recommendations					
Topics						
1. INTRODUCTION TO RESEARCH PROPOSAL   1.1) Title page   1.2) Abstract   1.3) Table of Contents   1.4) List of Tables   1.5) List of Figures   1.6) Chapter 1: Introduction   1.7) Chapter 2: Literature Review   1.8) Chapter 3: Methodology   1.9) References   1.10) Appendices						
2. CHAPTER 1: THE ROLE AND IMPORTANCE OF RESEARCH 2.1) Definition, purpose and the importance of research. 2.2) Characteristic of Research 2.3) The Steps in Research Process 2.4) Types of research 2.5) Descriptive (emphasized) 2.6) Historical 2.7) Correlational 2.8) Experimental 2.9) Applied (Action Research) 2.10) Exploratory 2.11) Quasi Experimental 2.12) Basic vs Applied Research						

3. CHAPTER 2: THE RESEARCH PROCESS: COMING TO TERMS
3.1) Types of Variables
3.2) Dependent
3.3) Independent 3.4) Control
3.5) Extraneous
3.6) Moderator
3.7) Types of Hypothesis
3.8) Null Hypothesis
3.9) Research Hypothesis 3.10) Directional Hypothesis
3.11) Non-Directional Hypothesis
3.12) Samples and Population
3.13) The Concept of Significance
4. CHAPTER 3A: SELECTING A PROBLEM AND REVIEWING THE RESEARCH
4.1) Selecting a Problem
4.2) Defining Your Interest
<ul><li>4.3) From Idea to Research Question to Hypothesis</li><li>4.4) Reviewing the Literature (Types of Sources)</li></ul>
4.5) Reading and Evaluating Research
4.6) Using Electronic Tools in Your Research Activities
4.7) Using journals
4.8) Using abstracts 4.9) Using indexes
4.10) Using CD-ROMs
4.11) On-line
4.12) Writing the Literature Review
4.13) Basic Principles of Ethical Research
4.14) Ensuring High Ethical Standards 4.15)
4.16)
4.17) CHAPTER 3B: THE IMPORTANCE OF PRACTISING ETHICS IN RESEARCH
4.18) Basic Principles of Ethical Research
4.19) Ensuring High Ethical Standards
5. CHAPTER 4: SAMPLING AND GENERALIZABILITY
5.1) Populations and Samples
5.2) Probability Sampling Strategies 5.3) Simple Random Sampling
5.4) Systematic Sampling
5.5) Stratified Sampling
5.6) Cluster Sampling
5.7) Nonprobability Sampling Strategies 5.8) Convenience Sampling
5.9) Quota Sampling
5.10) Estimating Sample Size and Sampling Error
6. CHAPTER 5: MEASUREMENT, RELIABILITY, AND VALIDITY
6.1) Levels of Measurement
6.2) Nominal
6.3) Ordinal 6.4) Interval
6.5) Ratio
6.6) Reliability
6.7) Validity
7. CHAPTER 1: INTRODUCTION TO SPSS
7.1) Preparation of the Data
7.2) Instrument Development 7.3) Observation
7.4) Interview
7.5) Survey
7.6) Preparation of the Questionnaire with Cover Letter
<ul><li>7.7) Alignment of Questionnaire Based on Research Objectives</li><li>7.8) Getting Ready with Data Collection</li></ul>
7.9) The Data Collection Process
8. CHAPTER 2: PREPARATION OF THE DATA
8.1) Defining Variable
8.2) Entering Data
8.3) Choosing Appropriate Graph
8.4) Bar Chart
19 EV Dia Chart
8.5) Pie Chart 8.6) Line Graph

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9. CHAPTER 3: DATA SCREENING AND TRANSFORMATION   9.1) DATA SCREENING   9.2) Checking for Errors   9.3) Assessing for Normality   9.4) Graphical   9.5) Histogram   9.6) Boxplot   9.7) Stem and leaf plot   9.8) Normal probability plot   9.9) Detrended normal plot   9.10) Statistical   9.11) Kolmogorov Smirnov with Shapiro Wilk Statistics   9.12) Skewness   9.13) Kurtosis
10. CHAPTER 3: DATA SCREENING AND TRANSFORMATION 10.1) DATA TRANSFORMATION 10.2) Recode 10.3) Negatively worded scale items 10.4) Collapsing continuous to categorical variable 10.5) Compute 10.6) Total score 10.7) Mean sore
11. CHAPTER 4: DESCRIPTIVE STATISTICS   11.1) Frequency Distribution   11.2) Measures of Central Tendency and Variability   11.3)   11.4) AND   11.5)   11.6) Distribution of Scores   11.7) Measures of Central Tendency   11.8) Mean   11.9) Mode   11.10) Median   11.11) Measures of Dispersion   11.12) Standard Deviation   11.13) Range   11.14) Variance   11.15) The Normal Curve (Bell-Shaped Curve)
<b>12. CHAPTER 4: DESCRIPTIVE STATISTICS</b> 12.1) CHOOSING THE RIGHT STATISTICS   12.2) Continuous vs Categorical Variable   12.3) Concept of Answering Research Objectives Through Data Analysis   12.4) Data Analysis   12.5) Relationship   12.6) Comparison Analysis
<b>13. RELIABILITY ANALYSIS: INTERNAL CONSISTENCY</b> 13.1) Examples from Journals on Reliability Cronbach Alpha values
<b>14. RELIABILITY ANALYSIS: INTERNAL CONSISTENCY</b> 14.1) Examples from Journals on Reliability Cronbach Alpha values

Assessment Breakdown	%
Continuous Assessment	60.00%
Final Assessment	40.00%

Details of						
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO		
	Case Study	Case study	20%	CLO3		
	Lab Exercise	SPSS test	10%	CLO4		
	Written Report	Research Proposal	30%	CLO2		
Reading List	Recommended TextSalkind, Neil J. 2012, Exploring Research, 8th Ed., All, Pearson New Jersey Coakes, Sheridan J. 2013, SPSS Version 20.0 For Windows: 					
Article/Paper List	This Course does not have any article/paper resources					
Other References	This Course does not have any other resources					