



UNIVERSITI TEKNOLOGI MARA

SRT606: RESEARCH METHODOLOGY IN SPORT AND BEHAVIOURAL SCIENCES

Course Name (English)	RESEARCH METHODOLOGY IN SPORT AND BEHAVIOURAL SCIENCES APPROVED
Course Code	SRT606
MQF Credit	4
Course Description	This course introduces students to the research processes in the field of sports sciences, sports management, recreation and leisure. Students will be exposed to various research methods including qualitative, quantitative, survey and experimental methods. They will be guided in data collection procedure and methods of sampling as well as data analysis. The course will also guide student in applying format and principles to prepare their research proposal and research report.
Transferable Skills	Knowledge in Specific Area Practical Skills Thinking and Scientific Skills Communication Skills Values, Ethics and professionalism Information Management and Life Long Learning
Teaching Methodologies	Lectures, Blended Learning, Practical Classes, Discussion, Presentation, Small Group Sessions , Journal/Article Critique
CLO	CLO1 Integrate work ethics and professionalism in conducting research in the field of sports science, sport management and exercise. CLO2 Assess issues and problems and provide solutions in the areas of research for sport science, sport management, and exercise. CLO3 Accommodate information management and life-long learning skills in the areas of research for sport science, sport management, and exercise.
Pre-Requisite Courses	No course recommendations
Topics	
1. 1. The meaning of research 1.1) 1.1 What is research? 1.2) 1.2 Purposes of research 1.3) 1.3 Ethics in research 1.4) 1.4 Type of research	
2. 2. Understanding the research process 2.1) 2.1 Identify Problem and select a topic 2.2) 2.2 Review the literature 2.3) 2.3 Devise a conceptual framework 2.4) 2.4 Formulate research hypothesis/question 2.5) 2.5 Decide on the design of the study 2.6) 2.6 Conduct research/Gather data 2.7) 2.7 Analyze and interpret data 2.8) 2.8 Report findings	
3. 3. Developing research proposal: Research Proposal Format 3.1) 3.1 Introduction and Statement of the Problem 3.2) 3.2 Review of literature 3.3) 3.3 Design, Instrumentation and Procedures 3.4) 3.4 Appendices (Time Schedule, Selected Bibliography)	

4. 4. Developing research proposal: Introduction

- 4.1) 4.1 Statement of the Problem
- 4.2) 4.2 Purpose and objectives of study
- 4.3) 4.3 Hypotheses
- 4.4) 4.4 Significance of Study
- 4.5) 4.5 Limitations and delimitations
- 4.6) 4.6 Definitions of terms

5. 5. Developing research proposal: Review of literature

- 5.1) 5.1 State the problem statement
- 5.2) 5.2 Consult secondary sources
- 5.3) 5.3 Determine descriptors (keywords)
- 5.4) 5.4 Search for primary sources
- 5.5) 5.5 Read and record the literature
- 5.6) 5.6 Write the literature review

6. 6. Developing research proposal: Design, Instrumentation and Procedure

- 6.1) 6.1 Experimental Research Methods
- 6.2) 6.2 Non-Experimental Research Methods
- 6.3) 6.3 Sampling Procedures
- 6.4) a) Population and Sample
- 6.5) b) Probability and Non-probability sampling strategies
- 6.6) c) Estimating sample size
- 6.7) 6.4 Procedures in data collection
- 6.8) a) Preliminary procedures (e.g. inclusion criteria)
- 6.9) b) Operational procedures (e.g. treatment procedures)
- 6.10) 6.5 Data Analysis Procedures
- 6.11) a) Descriptive statistics
- 6.12) b) Inferential statistics (parametric and non-parametric)
- 6.13) c) Significance level

7. 7. Results-Data Reporting

- 7.1) 7.1 Descriptive Statistics Reporting
- 7.2) a) Distributions of scores
- 7.3) b) Measures of central tendency
- 7.4) c) Measures of variability
- 7.5) 7.2 Inferential Statistics Reporting
- 7.6) a) Hypothesis testing
- 7.7) b) Selecting of relevant inferential statistics
- 7.8) 7.3 Non-parametric tests
- 7.9) a) Basic requirement for using parametric test
- 7.10) b) Types of non-parametric tests

8. 8. Writing research report

- 8.1) 8.1 Title and abstract
- 8.2) 8.2 The Introduction section
- 8.3) 8.3 The Literature Review section
- 8.4) 8.4 The Methodology section
- 8.5) 8.5 The Results section
- 8.6) 8.6 The Discussion, Conclusion and Recommendations section
- 8.7) 8.7 References/Bibliography and appendices

Assessment Breakdown		%	
Continuous Assessment		100.00%	

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Individual Project	Ethics Form	10%	CLO1
	Individual Project	Proposal (Format)	10%	CLO3
	Individual Project	Proposal	40%	CLO2
	Presentation	Proposal	5%	CLO3
	Presentation	Proposal	15%	CLO2
	Test	Online	20%	CLO2

Reading List	Recommended Text	<ul style="list-style-type: none"> Ted Baumgartner, Larry Hensley 2012, <i>Conducting & Reading Research In Kinesiology</i>, 5th ed. Ed., McGraw-Hill Education [ISBN: 0-07-802255-X]
	Reference Book Resources	<ul style="list-style-type: none"> Thomas, J.R., Nelson, J.K. & Silverman, S.J. 2011, <i>Research methods in physical activity</i>, 6th ed. Ed., Human Kinetics Champapign, IL. [ISBN: 0-7360-8939-X] Kris E. Berg, Richard Wayne Latin 2004, <i>Essentials of Research Methods in Health, Physical Education, Exercise Science, and Recreation</i>, 3rd ed. Ed., Lippincott Williams & Wilkins [ISBN: 0-7817-3802-4] Bowling, A. 2002, <i>Research methods in health</i>, 2nd ed. Ed., Open University Press Philadelphia, PA Ntoumanis, N. 2001, <i>A step-by-step guide to SPSS for sport and exercise studies.</i>, Routledge London. Qualitative research methods for social sciences (4th ed.). 2001, Berg, B.L., 4th ed. Ed., Allyn & Bacon. Needham Heights, MA Polgar, S. & Thomas, S.A. 2001, <i>Introduction to research in the health sciences</i>, 4th ed. Ed., Harcourt London
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	