

Course Outline

Department & Faculty: Advanced Informatics School (UTM AIS)	Page : 1 of 3
Course Name and Code: Research Methodology (UANP 0010/EANP 1013)	Semester: 1
Total Contact Hours: 42 hours	Academic Session: 2017/2018

Name of Lecturer : Assc. Prof Dr. Nor Zairah Ab Rahim

Synopsis : This course introduces students to the fundamentals of research methodology which include a general introduction to postgraduate research, its methodologies and organization. It is designed to support postgraduate students in developing their research proposal and to guide students through a range of issues and considerations which should inform their general approach to research. Students will learn a range of research tools, and will be equipped to plan and organize their research, as well as to communicate their findings.

LEARNING OUTCOMES

At the end of the course, students should be able to:

No.	Course Learning Outcomes	Assessment Methods
1.	Identify the research problem. Write the problem statement, research objectives, research questions, and research hypotheses.	Class Assignment I Discussion
2.	Reflect on and critically evaluate their chosen research topic and relevant literature. Apply library information search skills.	Discussion
3.	Select the research approach and design. Select/Develop research instruments.	Class Assignment II Discussion
4.	Address copyright, confidentiality, and other ethical issues. Plan and manage their postgraduate research.	Class Assignment III Discussion
5.	Communicate with peers about their research.	Research Proposal Report and Presentation

STUDENT LEARNING TIME

Teaching and Learning Activities	Student Learning Time (hours)
1. Face-to-Face Learning	
a. Lecturer-Centered Learning	
i. Lecture	20
b. Student-Centered Learning (SCL)	
i. Student-centered learning activities – Active Learning, Project Based Learning	22
2. Self-Directed Learning	
a. Non-face-to-face learning or student-centered learning (SCL)	33

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b. Self study/revision/project work	40
c. Presentation	3
3. Formal Assessment	
a. Continuous Assessment	2
b. Final Exam	0
Total (SLT)	120

TEACHING METHODOLOGY

Lectures, Independent study (self-learning, library search, reading, report writing), Whole-classroom discussion, Group discussion.

SCHEDULE

TOPIC

LECTURER

SCHEDULE	TOPIC	LECTURER
Meeting 1: 24/9/2017 Sunday	Introduction, Problem Formulation, Research Questions, Research Objectives, and Research Hypotheses	
Meeting 2: 31/9/2017 Saturday	Literature Review	
Meeting 3: 1/10/2017 Sunday	Research Methodology and Design	
Meeting 4: 14/10/2017 Sunday	Data Collection Procedures	
Meeting 5: 28/10/2017 Saturday	Research Proposal/Thesis Preparation Research Management	
Meeting 6: 4/11/2017 Sunday	Research Proposal Presentation	

REFERENCES:

1. Brubaker, D.L. and Thomas, R. M. (2008). *Theses and Dissertations. 2nd ed. A Guide to Planning, Research, and Writing.* Thousand Oaks, CA. Corwin Press.
2. Barbour, R. S. (2008). *Introducing Qualitative Research. A Student's Guide to the Craft of Doing Qualitative Research.* Thousand Oaks, CA. SAGE Publications.
3. Creswell, J. W. (2005). *Educational Research: Planning, Conducting and Evaluating Quantitative and Qualitative Research.* New York: Merrill Prentice Hall.
4. Creswell, J. W. (2007). *Qualitative Inquiry and Research Design: Choosing Among Five Approaches.* (2nd ed.). Thousand Oaks, CA: SAGE Publications.
5. Greene, J. C. (2007). *Mixed Methods in Social Inquiry.* San Francisco: Jossey-Bass.
6. Johnson, B. and Christensen, L. (2010). *Educational Research: Quantitative, Qualitative and Mixed Approaches.* Thousands Oak, CA: SAGE Publications Inc.

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GRADING:

No.	Components	%
1.	Assignment (I + II + III)	30
1.	Research Proposal	40
2.	Presentation	30

To obtain a **passing grade**, a student must fulfill the following conditions:

1. Get a minimum total course mark of 60; **AND**
2. Attend 80% of meetings inclusive of medical leave. Thus, a student can only be absent once within the semester, otherwise it would be advisable for the student to withdraw from the course. A medical certificate must be submitted **within one week** of the date of absence.