

# SCHOOL OF EDUCATION

## RESEARCH METHODOLOGY COURSE

General Instructions for Students (Semester 2, Session 2024/2025)

**PhD & Master of Philosophy Students:** Students enrolled in the PhD or Master of Philosophy (full research) programs under the School of Education (SOE) are required to register for the following course:

- **UHPP 6013: Research Methodology**  
(Refer to the Course & Class Schedule below)

**Mixed-Mode Students:** Students enrolled in the mixed-mode research program under the School of Education (SOE) are required to register for the following course:

- **MHPU 1014: Research Methodology and Data Analysis in Education**  
(Refer to the Course & Class Schedule below)

1. A **briefing** on the course details will be held on **27th March 2025 (Thursday, 4:00 p.m. Malaysia time)**.
2. You may log into the **E-Learning Course platform** to access and review the learning materials at <https://elearning.utm.my>.
3. The course will be conducted in the following modes:
  - **Asynchronous Sessions:** These involve structured, self-directed learning activities using the reading materials, videos, and other resources available on the e-learning platform. Section lecturers will also provide additional structured activities.
  - **Synchronous Sessions:** These live sessions will be conducted via platforms such as WebEx, Zoom, Google Meet, or similar. The link to each synchronous session will be provided before the semester begins and will also be available on the e-learning platform. Please check the e-learning platform and SOE announcements regularly for updates and activity schedules.
4. There will be **7 synchronous sessions** for each section, starting from **Week 4** (refer to the Section & Class Schedule below). These sessions will cover **3 modules**:

### **Module 1: Doing Critical Review & Analysis**

#### **Synopsis:**

The aim of this module is to develop students' knowledge and understanding of social science research and **research ethics awareness**. Students will be introduced to the processes involved in identifying and determining researchable social science issues through a literature review. From this review and analysis, students will learn how to transform these issues into researchable problems, including formulating research objectives and research questions. Additionally, students will develop skills in formulating the focus of the study, including creating conceptual and theoretical frameworks.

The specific topics covered will include:

- Literature survey and review activities
- Problem formulation
- Research objectives and research questions
- Conceptual framework and theoretical framework

Research ethics awareness is introduced to students to ensure the research is done according to international research ethics guidelines.

#### Research Ethics Awareness (Clinical, Non-Clinical and Animal)

- Ethics and Integrity in Research
- Ethical Principles & History of Ethical Principle - Helsinki Declaration
- Scope of clinical research
- Good Clinical Practices (GCP)
- Responsibility and Accountability of Researchers
- Care and Protection of Research Participants: Safeguarding the vulnerable population, confidentiality & data handling/protection
- Legal context of ethical application (law, regulation, policy, conflict of interest)

### **Module 2: Framing Research Issues and Deciding on Research Methodology**

#### **Synopsis:**

This module introduces students to the process of selecting an appropriate research design to address their research objectives and questions. Building on Module 1, students will learn the importance of aligning research problems with the appropriate design, recognising this alignment as critical to the entire research process. In this module, students will explore the rationale behind choosing specific designs to address particular research problems.

Three primary research approaches—**quantitative**, **qualitative**, and **mixed-methods**—will be discussed in detail to help students identify the philosophical frameworks guiding the use of various procedures, methods, and techniques in their research. Each approach will be examined from multiple perspectives, including:

- Research design
- Population and sampling
- Research instrumentation
- Data analysis and interpretation

Research ethics application is introduced to students to ensure the research is done according to international research ethic guidelines.

#### Research Ethics Application (Clinical and Non-Clinical)

- Research involving human participants
  - Minor and vulnerable participants
- Participants' Rights
  - Informed Consent/Assent
  - Privacy and Confidentiality
- Collecting and Managing Research Data
- Data collection (involvement of sensitive data)
- Storage and transmitting research data

### **Module 3: Academic Writing**

#### **Synopsis:**

In this module, students will be challenged to apply their writing skills and style to develop their research ideas. As a continuation of the previous modules, this module will focus on the practical aspects of academic writing, guiding students to work on their research ideas while adhering to critical research principles such as avoiding plagiarism and upholding ethical standards. This module also aims to help students refine their understanding of research, particularly as they begin working on their actual research proposals and, more importantly, as they prepare for publication.

Topics covered will include:

- Academic writing skills
- Developing research ideas
- Plagiarism
- Ethical considerations

Research ethics awareness is introduced to students to ensure the research is done according to international research ethics guidelines.

Research Ethics Awareness (Clinical, Non-Clinical and Animal)

- Ethics of using Artificial Intelligence AI in research
- The roles and functions of UTM-REC
- Three Rs, Five Freedom of Animal Welfare and Animal Act 1953

5. Completion of the modules will be confirmed **upon the submission** of all assigned tasks through the **Research Methodology (RM) web-based platform** at <http://fssh.utm.my/rm>, by the specified deadlines.
6. A total of **five (5) assignments** must be completed as part of the **pass requirement** for the course:

Num.	Assignment	%	Deadline
1.	Literature Review Matrix/Synthesis Matrix	20	TBA
2.	Summary of Research Design	20	
3.	Research Data Simulation	20	
4.	Research Ideas Outline	30	TBA
5.	Presentation Video on Research Ideas Outline	10	

7. All assignments must be submitted via the **RM web-based platform**.

Access the platform using the following link:

<http://fssh.utm.my/rm>

**Login credentials:**

- **User ID:** Matric Number
- **Password:** IC Number (for local students) or ISID (for international students)

## 8. Courses And Class Schedules

Full research (Master of Philosophy and PhD): **UHPP6013**

Mixed Mode Master: **MHPU1014**

SECTION & CLASS	DATE	TIME	MODULE & LECTURER
THURSDAY	[W2] 27 MAR 2025	4.00 PM	<b>COURSE BRIEFING</b> AP Ts. DR SHARIFAH OSMAN <a href="https://utm.webex.com/join/sharifah.o/">https://utm.webex.com/join/sharifah.o/</a>
<b>SECTION 06 (MONDAY CLASS)</b>  <b>MEDIUM: ENGLISH</b>	[W4] 7 APR 2025	4.00 PM - 7.00 PM	<b>MODULE 1</b> DR NUR HUSNA ABDUL WAHID <a href="https://utm.webex.com/join/husna/">https://utm.webex.com/join/husna/</a>
	[W5] 14 APR 2025		<b>MODULE 2: QUANTITATIVE RESEARCH</b> DR NORULHUDA ISMAIL <a href="https://utm.webex.com/join/p-norulhuda/">https://utm.webex.com/join/p-norulhuda/</a>
	[W6] 21 APR 2025		<b>MODULE 2: QUANTITATIVE RESEARCH</b> DR NORULHUDA ISMAIL <a href="https://utm.webex.com/join/p-norulhuda/">https://utm.webex.com/join/p-norulhuda/</a>
	[W7] 28 APR 2025		<b>MODULE 2: QUALITATIVE RESEARCH</b> AP Ts DR SHARIFAH OSMAN <a href="https://utm.webex.com/join/sharifah.o/">https://utm.webex.com/join/sharifah.o/</a>
	[W10] 19 MAY 2025		<b>MODULE 2: QUALITATIVE RESEARCH</b> AP Ts DR SHARIFAH OSMAN <a href="https://utm.webex.com/join/sharifah.o/">https://utm.webex.com/join/sharifah.o/</a>
	[W11] 26 MAY 2025		<b>MODULE 2: MIXED-METHODS RESEARCH</b> AP DR HASNAH MOHAMED <a href="https://utm.webex.com/meet/hasnah-m">https://utm.webex.com/meet/hasnah-m</a>
	[W13] 9 JUN 2025		<b>MODULE 3: ACADEMIC WRITING</b> PM DR CORRIENNA ABDUL TALIB <a href="https://utm.webex.com/meet/DrCorrienna">https://utm.webex.com/meet/DrCorrienna</a>

Full research (Master of Philosophy and PhD): **UHPP6013**

Mixed Mode Master: **MHPU1014**

SECTION & CLASS	DATE	TIME	MODULE & LECTURER
THURSDAY	[W2] 27 MAR 2025	4.00 PM	<b>COURSE BRIEFING</b> AP Ts. DR SHARIFAH OSMAN <a href="https://utm.webex.com/join/sharifah.o/">https://utm.webex.com/join/sharifah.o/</a>
<b>SECTION 07 (TUESDAY class)</b>  <b>MEDIUM: ENGLISH</b>	[W4] 8 APR 2025	4.00 PM - 7.00 PM	<b>MODULE 1</b> AP DR NORNAZIRA SUHAIROM <a href="https://utm.webex.com/meet/p-nazira">https://utm.webex.com/meet/p-nazira</a>
	[W5] 15 APR 2025		<b>MODULE 2: QUANTITATIVE RESEARCH</b> AP DR ADIBAH ABDUL LATIF <a href="https://utm.webex.com/join/p-adibah/">https://utm.webex.com/join/p-adibah/</a>
	[W6] 22 APR 2025		<b>MODULE 2: QUANTITATIVE RESEARCH</b> AP DR ADIBAH ABDUL LATIF <a href="https://utm.webex.com/join/p-adibah/">https://utm.webex.com/join/p-adibah/</a>
	[W7] 29 APR 2025		<b>MODULE 2: QUALITATIVE RESEARCH</b> AP DR NARINA ABU SAMAH <a href="https://utm.webex.com/join/narina/">https://utm.webex.com/join/narina/</a>
	[W10] 20 MAY 2025		<b>MODULE 2: QUALITATIVE RESEARCH</b> AP DR NARINA ABU SAMAH <a href="https://utm.webex.com/join/narina/">https://utm.webex.com/join/narina/</a>
	[W11] 27 MAY 2025		<b>MODULE 2: MIXED-METHODS RESEARCH</b> AP DR MOHD SAFARIN NORDIN <a href="https://utm.webex.com/join/p-safarin/">https://utm.webex.com/join/p-safarin/</a>
	[W13] 10 JUN 2025		<b>MODULE 3: ACADEMIC WRITING</b> PM DR CORRIENNA ABDUL TALIB <a href="https://utm.webex.com/meet/DrCorrienna">https://utm.webex.com/meet/DrCorrienna</a>

Full research (Master of Philosophy and PhD): **UHPP6013**

Mixed Mode Master: **MHPU1014**

SECTION & CLASS	DATE	TIME	MODULE & LECTURER
THURSDAY	[W2] 27 MAR 2025	4.00 PM	<b>COURSE BRIEFING</b> AP Ts. DR SHARIFAH OSMAN <a href="https://utm.webex.com/join/sharifah.o/">https://utm.webex.com/join/sharifah.o/</a>
<b>SECTION 08</b> <b>(WEDNESDAY class)</b>  <b>MEDIUM:</b> <b>MALAY</b>	[W4] 9 APR 2025	4.00 PM - 7.00 PM	<b>MODULE 1</b> AP DR ZAINUDIN ABU BAKAR <a href="https://utm.webex.com/meet/p-zain">https://utm.webex.com/meet/p-zain</a>
	[W5] 16 APR 2025		<b>MODULE 2: QUANTITATIVE RESEARCH</b> AP DR ABDUL HALIM ABDULLAH <a href="https://utm.webex.com/meet/p-halim">https://utm.webex.com/meet/p-halim</a>
	[W6] 23 APR 2025		<b>MODULE 2: QUANTITATIVE RESEARCH</b> AP DR ABDUL HALIM ABDULLAH <a href="https://utm.webex.com/meet/p-halim">https://utm.webex.com/meet/p-halim</a>
	[W7] 30 APR 2025		<b>MODULE 2: QUALITATIVE RESEARCH</b> AP DR HJ ZAINUDIN HASSAN <a href="https://utm.webex.com/join/p-zainudin/">https://utm.webex.com/join/p-zainudin/</a>
	[W10] 21 MAY 2025		<b>MODULE 2: QUALITATIVE RESEARCH</b> AP DR HJ ZAINUDIN HASSAN <a href="https://utm.webex.com/join/p-zainudin/">https://utm.webex.com/join/p-zainudin/</a>
	[W11] 28 MAY 2025		<b>MODULE 2: MIXED-METHODS RESEARCH</b> AP DR MOHD SAFARIN NORDIN <a href="https://utm.webex.com/join/p-safarin/">https://utm.webex.com/join/p-safarin/</a>
	[W13] 11 JUN 2025		<b>MODULE 3: ACADEMIC WRITING</b> AP DR ZAINAL ABIDIN ZAINUDDIN <a href="https://utm.webex.com/meet/p-zainal">https://utm.webex.com/meet/p-zainal</a>