

FACULTY OF EDUCATIONAL SCIENCES AND TECHNOLOGY

RESEARCH METHODOLOGY COURSE

General Instructions for Students (Semester 2, Session 2025/2026)

PhD & Master of Philosophy Students: Students enrolled in the PhD or Master of Philosophy (full research) programs under the Faculty of Educational Sciences and Technology (FEST) are required to register for the following course:

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

Mixed-Mode Students: Students enrolled in the mixed-mode research program under FEST 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 **April 1, 2026 (Wednesady, 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 FEST 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 <https://festapps.utm.my/RM/rslogin01.asp> 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	29 JUN 2026
2.	Summary of Research Design	20	
3.	Research Data Simulation	20	
4.	Research Ideas Outline	30	
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:

<https://festapps.utm.my/RM/rslogin01.asp>

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): **UPTP6013**

Mixed Mode Master: **MHPU1014**

SECTION & CLASS	DATE	TIME	MODULE & LECTURER
WEDNESDAY	[W3] 1 APRIL 2026	4.00 PM	COURSE BRIEFING AP Ts. DR SHARIFAH OSMAN https://utm.webex.com/join/sharifah.o/
SECTION 01 (MONDAY CLASS) MEDIUM: ENGLISH	[W4] 6 APRIL 2026	4.00 PM - 7.00 PM	MODULE 1 AP DR NORNAZIRA SUHAIROM https://utm.webex.com/meet/p-nazira
	[W6] 20 APRIL 2026		MODULE 2: QUANTITATIVE RESEARCH DR NORULHUDA ISMAIL https://utm.webex.com/join/p-norulhuda/
	[W7] 27 APRIL 2026		MODULE 2: QUANTITATIVE RESEARCH DR NORULHUDA ISMAIL https://utm.webex.com/join/p-norulhuda/
	[W9] 11 MAY 2026		MODULE 2: QUALITATIVE RESEARCH AP Ts DR SHARIFAH OSMAN https://utm.webex.com/join/sharifah.o/
	[W10] 18 MAY 2026		MODULE 2: QUALITATIVE RESEARCH AP Ts DR SHARIFAH OSMAN https://utm.webex.com/join/sharifah.o/
	[W13] 8 JUN 2026		MODULE 2: MIXED-METHODS RESEARCH DR IBNATUL JALILAH YUSOF https://utm.webex.com/meet/ibnajalilah
	[W14] 15 JUN 2026		MODULE 3: ACADEMIC WRITING DR MUHAMMAD ABD HADI BUNYAMIN https://utm.webex.com/meet/mabhadi

Full research (Master of Philosophy and PhD): **UPTP6013**

Mixed Mode Master: **MHPU1014**

SECTION & CLASS	DATE	TIME	MODULE & LECTURER
WEDNESDAY	[W3] 1 APRIL 2026	4.00 PM	COURSE BRIEFING AP Ts. DR SHARIFAH OSMAN https://utm.webex.com/join/sharifah.o/
SECTION 02 (TUESDAY CLASS) MEDIUM: ENGLISH	[W4] 7 APRIL 2026	4.00 PM - 7.00 PM	MODULE 1 AP DR NORNAZIRA SUHAIROM https://utm.webex.com/meet/p-nazira
	[W6] 21 APRIL 2026		MODULE 2: QUANTITATIVE RESEARCH DR NAJUA SYUHADA AHMAD ALHASSORA https://utm.webex.com/meet/najuasyuhada
	[W7] 28 APRIL 2026		MODULE 2: QUANTITATIVE RESEARCH DR NAJUA SYUHADA AHMAD ALHASSORA https://utm.webex.com/meet/najuasyuhada
	[W9] 12 MAY 2026		MODULE 2: QUALITATIVE RESEARCH AP DR NARINA ABU SAMAH https://utm.webex.com/join/narina/
	[W10] 19 MAY 2026		MODULE 2: QUALITATIVE RESEARCH AP DR NARINA ABU SAMAH https://utm.webex.com/join/narina/
	[W13] 9 JUN 2026		MODULE 2: MIXED-METHODS RESEARCH AP DR MOHD SAFARIN NORDIN https://utm.webex.com/join/p-safarin/
	[W14] 16 JUN 2026		MODULE 3: ACADEMIC WRITING DR MUHAMMAD ABD HADI BUNYAMIN https://utm.webex.com/meet/mabhadi

Full research (Master of Philosophy and PhD): **UPTP6013**

Mixed Mode Master: **MHPU1014**

SECTION & CLASS	DATE	TIME	MODULE & LECTURER
WEDNESDAY	[W3] 1 APRIL 2026	4.00 PM	COURSE BRIEFING AP Ts. DR SHARIFAH OSMAN https://utm.webex.com/join/sharifah.o/
SECTION 03 (WEDNESDAY CLASS) MEDIUM: MALAY	[W4] 8 APRIL 2026	4.00 PM - 7.00 PM	MODULE 1 DR SITI NISRIN MOHD ANIS https://utm.webex.com/meet/nisrin
	[W6] 22 APRIL 2026		MODULE 2: QUANTITATIVE RESEARCH AP DR ABDUL HALIM ABDULLAH https://utm.webex.com/meet/p-halim
	[W7] 29 APRIL 2026		MODULE 2: QUANTITATIVE RESEARCH AP DR ABDUL HALIM ABDULLAH https://utm.webex.com/meet/p-halim
	[W9] 13 MAY 2026		MODULE 2: QUALITATIVE RESEARCH AP DR HJ ZAINUDIN HASSAN https://utm.webex.com/join/p-zainudin/
	[W10] 20 MAY 2026		MODULE 2: QUALITATIVE RESEARCH AP DR HJ ZAINUDIN HASSAN https://utm.webex.com/join/p-zainudin/
	[W13] 10 JUN 2026		MODULE 2: MIXED-METHODS RESEARCH AP DR MOHD SAFARIN NORDIN https://utm.webex.com/join/p-safarin/
	[W14] 17 JUN 2026		MODULE 3: ACADEMIC WRITING PM DR CORRIENNA ABDUL TALIB https://utm.webex.com/meet/DrCorrienna