

**CLASS SCHEDULE FOR  
RESEARCH METHODOLOGY AND DATA ANALYSIS (UHPP0010, MPPU 1060/1074) SESSION 2019/2020 – 2**

MODULE	DATE	SLOT 1	SLOT 2	SLOT 3	SLOT 4
		8.30-10.30am	11.00am-1.00pm	2.00-4.00pm	4.00 – 5.00pm
<b>MODULE 1 QUANTITATIVE RESEARCH METHODOLOGY</b>	Sunday (23/2/2020)	<p><b><u>Overview of Research Methodology</u></b> (Paradigm/philosophy and general structure of conducting research) (PM Dr. Zainudin Abu Bakar)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Problem Background, Objectives &amp; Literature Review, Citation, Ethics &amp; Plagiarism</u></b>  (PM Dr. Zainudin Abu Bakar)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Overview of Quantitative Research Methodology</u></b> (General issues of quantitative research, problems, design, sampling, instruments, analysis) (Prof Dr. Mohamed Bilal Ali &amp; Dr Mohd Rustam Mohd Rameli)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Learning Summary</u></b> (PM Dr. Zainudin Abu Bakar, Prof Dr. Mohamed Bilal Ali &amp; Dr Mohd Rustam Mohd Rameli)</p> <ul style="list-style-type: none"> <li>- Mind Map</li> <li>- Short summary</li> <li>- Chart</li> </ul> <p><b>Venue : SEMINAR ROOM ✓</b></p>
	Monday (24/2/2020)	<p><b><u>Quantitative Research Design 1</u></b> Experimental Research Design  (Prof Dr. Mohamed Bilal Ali &amp; Dr Mohd Rustam Mohd Rameli)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Quantitative Research Design 2</u></b> Non-Experimental Research Design  (Prof Dr. Mohamed Bilal Ali &amp; Dr Mohd Rustam Mohd Rameli)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Quantitative Data Collection</u></b></p> <ul style="list-style-type: none"> <li>• <b>Instrumentation</b> : Definition, Meta Data Analysis, Scaling and Calibration, item reliability, and instrument development</li> <li>• <b>Data Collection</b></li> </ul> <p>(Dr. Adibah binti Abd. Latif &amp; Dr Hadijah Jafri)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Learning Summary</u></b> (Prof Dr. Mohamed Bilal Ali &amp; Dr Mohd Rustam Mohd Rameli, Dr Adibah Abd Latif, Dr Hadijah Jafri)</p> <p>Mind Map</p> <ul style="list-style-type: none"> <li>- Short summary</li> <li>- Chart</li> </ul> <p><b>Venue : SEMINAR ROOM ✓</b></p>
	Tuesday (25/2/2020)	<p><b><u>Quantitative Population and Sampling</u></b></p> <ul style="list-style-type: none"> <li>• Types : Random sampling, systematic sampling, stratified sampling, quota sampling,</li> <li>• Technique of choosing sample</li> <li>• Determining sample size</li> </ul> <p>(Dr Adibah binti Abdul Latif &amp; Dr Hadijah Jafri)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Quantitative Data Analysis 1: Parametric Tests-continue (Lab based):</u></b> T-test, ANOVA, Correlation, Regression, Multiple Regression) Software : SPSS a) <b>Masters Group</b> – Dr. Norah Md Noor, Dr. Norasykin Mohd Zaid b) <b>PhD Group</b> – Prof Dr Zaleha Ismail &amp; Dr Norazreena Abu Samah</p> <p><b>Venue : C14-227- MASTER C14-416- PhD STUDENTS (Computer Lab)</b></p>	<p><b><u>Quantitative Data Analysis 2: Nonparametric Tests (Lab based):</u></b> Mann Whitney U, Wilcoxon, Kruskal-Wallis, Friedman, Chi Square Software : SPSS a) <b>Masters Group</b> – Dr. Norah Md Noor, Dr. Norasykin Mohd Zaid b) <b>PhD Group</b> – Prof Dr Zaleha Ismail, &amp; Dr Norazreena Abu Samah</p> <p><b>Venue : C14-227- MASTER STUDENTS C14-416- PhD STUDENTS (Computer Lab)</b></p>	<p><b><u>Learning Summary</u></b> (Prof Dr Zaleha Ismail, Dr. Adibah binti Abd. Latif, Dr Norazreena Abu Samah, Dr. Norasykin Mohd Zaid, Dr Hadijah Jafri, Dr. Norah Md. Noor)</p> <ul style="list-style-type: none"> <li>- Mind Map</li> <li>- Short summary</li> <li>- Chart</li> </ul> <p><b>Venue : C14-227- MASTER C14-416- PhD STUDENTS</b></p>

**CLASS SCHEDULE FOR  
RESEARCH METHODOLOGY AND DATA ANALYSIS (MPU/PPU0020, MPPU 1060/1074) SESSION 2019/2020 – 2**

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		8.30-10.30am	11.00am-1.00pm	2.00-4.00pm	4.00 – 5.00pm
<b>MODUE 2 QUALITATIVE RESEARCH METHODOLOGY</b>	Sunday (1/3/2020)	<p><b><u>Qualitative Research Methodology</u></b> (General issues of qualitative research, problems, design, sampling, instruments, analysis) (PM Dr. Baharin Abu)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Qualitative Research Design 1: Action Research &amp; Case Study</u></b> (PM Dr. Baharin Abu)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Qualitative Research Design 2: Ethnographic &amp; Narrative</u></b>  (PM Dr. Narina Abu Samah)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Learning Summary</u></b> (PM Dr Baharin Abu, PM Dr. Narina Abu Samah)</p> <ul style="list-style-type: none"> <li>- Mind Map</li> <li>- Short summary</li> <li>- Chart</li> </ul> <p><b>Venue : SEMINAR ROOM ✓</b></p>
	Monday (2/3/2020)	<p><b><u>Qualitative Research Design 3: Grounded Theory &amp; Phenomenology</u></b>  (PM Dr. Narina Abu Samah)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Population &amp; Sampling in Qualitative Research 1</u></b> (non random vs purposive sampling – maximal variation, extreme case, typical, critical, opportunistic, snowball, confirming &amp; disconfirming)  (Dr Sharifah Osman)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Population &amp; Sampling in Qualitative Research 2</u></b> (non random vs purposive sampling – maximal variation, extreme case, typical, critical, opportunistic, snowball, confirming &amp; disconfirming)  (Dr Sharifah Osman)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Learning Summary</u></b> (PM Dr. Narina Abu Samah &amp; Dr Sharifah Osman)</p> <ul style="list-style-type: none"> <li>- Short summary</li> <li>- Chart</li> <li>- Mind Map</li> </ul> <p><b>Venue : SEMINAR ROOM ✓</b></p>
	Tuesday (3/3/2020)	<p><b><u>Instrumentation &amp; Data Collection in Qualitative Research</u></b> (open ended, interview protocol, observation protocol – authenticity, triangulation &amp; trustworthiness)  (PM Dr. Sanitah binti Mohd Yusof &amp; Mdm Marlina Ali)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Qualitative Data Analysis and Interpretation 1</u></b> (data organisation, transcribing, content analysis, manual vs software – coding &amp; open coding, description, themes) (PM Dr. Sanitah binti Mohd Yusof &amp; Mdm Marlina Ali)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Qualitative Data Analysis and Interpretation 2</u></b> <b>NViVo (Lab based)</b></p> <ul style="list-style-type: none"> <li><b>a) Masters Group – Mdm. Marlina binti Ali</b></li> <li><b>b) PhD Group – PM. Dr. Mohd Nihra Haruzuan Mohd Said</b></li> </ul> <p><b>Venue : C14-227- MASTER STUDENTS C14-416- PhD STUDENTS (Computer Lab)</b></p>	<p><b><u>Learning Summary</u></b> (PM Dr Sanitah Mohd Yusof, Mdm. Marlina Ali, PM. Dr Mohd Nihra Haruzuan Mohd Said, Dr Sharifah Osman)</p> <ul style="list-style-type: none"> <li>- Mind Map</li> <li>- Short summary</li> <li>- Chart</li> </ul> <p><b>Venue: SEMINAR ROOM ✓</b></p>

**CLASS SCHEDULE FOR  
RESEARCH METHODOLOGY AND DATA ANALYSIS (MPU/PPU0020, MPPU 1060/1074) SESSION 2019/2020 – 2**

MODULE	DATE	SLOT 1	SLOT 2	SLOT 3	SLOT 4
		8.30-10.30am	11.00am-1.00pm	2.00-4.00pm	4.00 – 5.00pm
<b>MODULE 3 MIXED METHOD RESEARCH METHODOLOGY</b>	Wednesday (4/3/2020)	<p><b><u>Mixed Method Research Methodology</u></b> (General issues of mixed method research, problems, design, sampling, instruments, analysis) (Dr. Nur Husna Abd Wahid &amp; Dr Nornazira Suhairom)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Mixed Method Data Analysis and Application</u></b> Data Analysis (descriptive, inferential, triangulation) (Dr. Nur Husna Abd Wahid &amp; Dr Nornazira Suhairom)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Proposal &amp; Final Report Writing</u></b> Writing Proposal, Thesis &amp; Dissertation (Quantitative Report, Qualitative Report, Mixed Method Report) (PM Dr. Zainudin Abu Bakar)</p> <p><b>Venue : SEMINAR ROOM ✓</b></p>	<p><b><u>Learning Summary</u></b> (PM Dr Zainudin Abu Bakar, Dr. Nur Husna Abd Wahid &amp; Dr Nornazira Suhairom)</p> <ul style="list-style-type: none"> <li>- Mind Map</li> <li>- Short summary</li> <li>- Chart</li> </ul> <p><b>Venue : SEMINAR ROOM ✓</b></p>

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MODULE	DATE	8.00a.m.-5.00p.m.
<b>BRIEF PROPOSAL PRESENTATION</b>	(25 & 26/3/2020)	<b>SCHEDULE (<a href="https://humanities.utm.my/education/pg/">https://humanities.utm.my/education/pg/</a>)</b>

**Specific Notes:**

1. Students are required to bring laptops for every sessions
2. Every students are required to do pre reading prior to the class
3. The materials for every slots and sessions can be viewed and downloaded from the E-Learning
4. Students are also required to make summary of their readings based on every topics for about 2-3 pages.
5. The summary will be checked & collected by the tutors of every slot at the beginning of the lesson.
6. For installing specific software (SPSS, NVIVO, etc.) please get assistance from the computer technicians at the Computer Centre at the CICT (opposite of N24 Lecture Hall)

**Mode of Delivery – Normal & Remote**

**i. Normal Mode**

- Students will attending course activities at the campus
- They will follow the slot times as provided in the course schedule
- At the end of the course they need to present a brief proposal as a fulfilment of the course

## **ii. Remote Mode**

- *Students will attending the course activities remotely*
- *Only those who have specific criteria as below can be considered for remote mode by the school by providing valid evidences/documents as a proof of application:*
  - a. *Those who live more than 150 km radius from UTM*
  - b. *Have a difficulties to get off-working permission from the office for attending the course*
  - c.
- *As a fulfilment of the remote mode the students need to engage in remote activities such as follows:*
  - a. *Prepare and submit 5 – 6 pages of summary for every topic of the course*
  - b. *Engage in the online material resources such as Moocs*
  - c. *Submit a brief proposal prior to the presentation day*
  - d. *Engage in on-line discussion with the assigned tutor (nominated by the school) once for every topic/slot*
- *At the end of the course they need to orally present a brief proposal as a fulfilment of the course*
- *The school have all the right to consider any decision regarding the application of the remote status by the students should any circumstances appeared*

## **MPU/PPU 0020, MPPU 1060/1074 RESEARCH METHODOLOGY AND DATA ANALYSIS**

### **Course Coordinator:**

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This course discusses the process of conducting research in education. More specific, the discussion will explore perspectives of research activities. Among topics that will be covered are the scientific methods, basic elements of research, research approaches and designs, population and sampling, instrumentation, data collection, data processing and analysis and report writing. Three major approaches namely quantitative, qualitative, and mixed-method will be explored by given examples and methods. Students will have the opportunity to make decisions on the practicality towards their research project or dissertation through a written proposal.