

**Macao Polytechnic University**  
**Faculty of Health Sciences and Sports**  
**Master of Science in Nursing**

**Module Outline**

Academic Year 2022 / 2023 Semester 1

<b>Learning Module</b>	Research Methods and Ethics		<b>Class Code</b>	NURS6121
<b>Pre-requisite(s)</b>	Nil			
<b>Medium of Instruction</b>	Chinese / English		<b>Credit</b>	3
<b>Lecture Hours</b>	45 hrs	<b>Lab/Practice Hours</b>	0 hrs	<b>Total Hours</b> 45 hrs
<b>Instructor</b>	Xin Wang (Amy, Subject Teacher) Ming LIU (Karry)		<b>E-mail</b>	<a href="mailto:amywang@mpu.edu.mo">amywang@mpu.edu.mo</a> <a href="mailto:karryliu@mpu.edu.mo">karryliu@mpu.edu.mo</a>
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**Description**

This 45-hour course is designed to assist students in master and apply scientific research methods. The contents include the key principles of research methods, research process and principle of ethical issues, quantitative researches, qualitative researches, mixed research methods and nursing research management etc. In the end of the course, the students can apply the knowledge they learnt for solving the nursing practical problems, designing nursing researches, conducting literature reviews, and writing research proposals.

**Learning Outcomes**

After completing the learning module, students will be able to:

1. Master the key principle of research,
2. Master the principles of ethical issues,
3. Design a research method to explore the practical problems, new technologies or scientific evidence in clinical usages.
4. Solve a practical problem.
5. Write a research proposal.

## **Content**

1. Research topic selection.
2. Ethical principles and related issues.
3. Sampling and sample size calculations.
4. Theoretical/conceptual framework
5. Validity and reliability
6. Study designs in quantitative researches
7. Measurement preparation
8. Statistics (t-test, ANOVA, Chi-square)
9. Statistics (Regression and correlation)
10. Proposal presentation
11. Statistics ( SPSS application)
12. Qualitative research methodology

## **Teaching Method**

Lectures, role play, videos, group discussions

## **Attendance**

Attendance requirements are governed by the “Academic Regulations Governing Master’s Degree Programmes” of Macao Polytechnic University. Students who do not meet the attendance requirements for the module shall be awarded an ‘F’ grade.

## **Assessment**

This learning module is graded on a 100 point scale, with 100 being the highest possible score and 50 the pass score.

	<b>Item</b>	<b>Description</b>	<b>Percentage</b>
1.	Attendance	Attendance will be checked 15 minutes after the class	10%
2.	Quizzes	Statistic test (submit results)	35%
3.	Assessment in classroom activities	Discussion involvement.	15%
4.	Group project and presentation	Group-study about the qualitative research and presentation	40%
		<b>Total Percentage:</b>	<b>100 %</b>

## **Teaching Method**

Power Point, Video, Books and Notes

## **Reference**

1. 《護理研究》. 李崢、劉宇主編。2018, 北京：人民衛生出版。
2. 護理質性研究存在問題與誤區. 劉明, 袁浩斌, 2009.
3. 護理質性研究的特點和論文寫作的注意事項. 嶽 鵬, 2015.
4. 護理質性研究文獻計量學分析. 瞿佳, 翁雪玲, 高玲玲, 2018.
5. Colaizzi 七個步驟在現象學研究資料分析中的應用. 劉明, 2021.
6. Lived experiences of clinical preceptors: A phenomenological study. Ming Liu, Yin Lei, et al., 2010.
7. 《SPSS 統計分析基礎教程》. 張文彤主編. 2017, 北京：高等教育出版社
8. Nursing Research -Methods and Critical Appraisal for Evidence-Based Practice, 9<sup>th</sup> Edition by Geri LoBiondo-Wood, PhD, RN, FAAN, Judith Haber, PhD, RN, FAAN **Publisher:** Mosby; 9 edition (August 9, 2017) **ISBN-10:** 9780323431316 **ISBN-13:** 978-0323431316
9. Study Guide for Nursing Research - Methods and Critical Appraisal for Evidence-Based Practice by Geri LoBiondo-Wood, PhD, RN, FAAN, Judith Haber, PhD, RN, FAAN, Carey Berry, Jennifer Yost

## Appendix 1

### Plan of Class

Session	Date	Time	Teacher	Topic
1	27-9-2022 Tue	18:30-21:30	Amy	Research topic selection
2	29-9-2022 Thur	18:30-21:30	Amy	Ethical principles and related issues
3	11-10-2022 Tue	18:30-21:30	Amy	Validity and reliability
4	13-10-2022 Thur	18:30-21:30	Karry	Measurement preparation and Qualitative research Methods-1
5	18-10-2022 Tue	18:30-21:30	Karry	Qualitative research methodology-2
7	20-10-2022 Thur	18:30-21:30	Amy	Study designs in quantitative researches-1
6	25-10-2022 Tue	18:30-21:30	Amy	Study designs in quantitative researches-2
9	27-10-2022 Thur	18:30-21:30	Amy	Study designs in quantitative researches-3
8	1-11-2022 Tue	18:30-21:30	Amy	Statistics (data management and t-test)
10	3-11-2022 Thur	18:30-21:30	Amy	Statistics (Chi-square and ANOVA )
11	15-11-2022 Tue	18:30-21:30	Amy	Statistics (Regression and correlation-1 )
12	19-11-2022 Sat	09:00-11:00*	Karry	Group presentation: Qualitative research-1
13	19-11-2022 Sat	11:00-13:00*	Karry	Group presentation: Qualitative research-2
14	19-11-2022 Sat	14:30-17:30	Karry	Theoretical/conceptual framework
15	22-11-2022 Tue	18:30-21:30	Amy	Statistics (Regression and correlation-2 and Nonparametric Statistical Methods)
16	24-11-2022 Thur	18:30-20:30*	Amy	Statistics (SPSS test)

\* 2 Hours

Total 45 Hours