

Course Specification

Name of Institution

Prince of Songkla University

Prince of Songkla University Hatyai Campus Faculty of Nursing

[✓] *Course/Module Specification*

Section 1: General Information

1. Course/Module title and code

642-513 Module: Research and Innovation in Nursing: Concepts to Application

2. Number of credits

5((4)-2-9)

3. Program and categories of course/ Module

[✓] *Master of Nursing Science in Adult and Gerontological Nursing (International Program)*

Graduate

[✓] *Core courses* [] *Elective Core courses*

[] *Specific courses* [] *Elective courses*

[] *Thesis* [] *Minor Thesis*

4. Teaching and Learning management

[✓] *Managed by Faculty of Nursing*

5. Course/Module coordinator(s) and lecturer(s)/Advisor/supervisor

[✓] *Course/Module coordinator*

1. Asst. Prof. Dr. Charuwan Kritpracha

2. Asst. Prof. Dr. Hathairat Sangchan

[✓] *Lecturers*

1. Asst. Prof. Dr. Charuwan Kritpracha

2. Asst. Prof. Dr. Hathairat Sangchan

3. Asst. Prof. Dr. Luppana Kitrungrrote

4. Assoc. Prof. Dr. Waraporn Kongsuwan

5. Assoc. Prof. Dr. Kantaporn Yodchai

6. Asst. Prof. Dr. Ratjai Vachprasit

7. Asst. Prof. Dr. Chantra Promnoi

8. Asst. Prof. Dr. Jintana Damkliang

9. Dr. Duangsuda Siripituphum

6. Semester/Year of study

Year of study 1 Semester 1 Academic Year 2023

7. Related Courses

☒ No

☐ Yes

8. Date of issues

Date 8 Month May Year 2023

Waraporn
20 June 2023

Section 2: Course/Module/ Field Experience Expected Learning Outcomes

1. Course/Module Learning Outcomes

PLOs	Course/Module CLOs	Teaching Strategy/methods	Measurement and Evaluation Strategies/methods
PLO 6.1 Search and analyze the reliability of information, information for use in development of research, innovation, and practice in nursing	CLO1 Use digital and information technology in searching and appraising existing nursing research studies	<ul style="list-style-type: none"> - Discussion - Self-study from video: Conducting literature review - Practice searching existing research studies using digital and information technology (Group activity and individual work) 	<ul style="list-style-type: none"> - Exercise: Searching relevant evidence for a literature review (Individual work) - Exercise: Using statistical software in data analysis (Individual work) - Observe the use of statistical software in data analysis
		<ul style="list-style-type: none"> - Practice using computer software to analyze and interpret data (Group activity and individual work) - Analyze and interpret statistical data (Group activity and individual work) 	<ul style="list-style-type: none"> - Observe the use of application software in the presentation of selected quantitative research critique, research proposal/innovation (Formative assessment)
		<ul style="list-style-type: none"> - Present the critique of selected quantitative research (Group work), research proposal (Individual work) using application software 	
PLO 2.2 Assess and apply knowledge, empirical evidence to design nursing research for adult and elderly clients	CLO 2 Analyze and summarize literature review related to research question	<ul style="list-style-type: none"> - Discussion - Assign exercise to review literature related to research question (Group activity and individual work) 	<ul style="list-style-type: none"> - Exercise: Literature review (Individual work)
PLO 2.1 Explain the concept of research process, statistics, and innovation in nursing	CLO 3 Explain the significance and process of conducting research, analysis using statistics,	<ul style="list-style-type: none"> - Discussion - Group activity using online application to delineate significance and process of conducting 	<ul style="list-style-type: none"> - Short answer questions (Individual work) <p>Wanpon 20 June 2023</p>

PLOs	Course/Module CLOs	Teaching Strategy/methods	Measurement and Evaluation Strategies/methods
	and developing innovation in nursing	research, analysis using statistics, and developing innovation in nursing - Assign task of short answer questions	
PLO 2.3 Conduct research studies systematically and present research results for dissemination at the national or international level	CLO 4 Design quantitative study CLO 4.1 Identify a quantitative research design congruent with the research question	- Discussion - Propose research title, background and significance of the problem, research questions, research objectives, hypotheses - Analyze quantitative research design from scenario provided (Group activity) - Self-study from VDO: Quantitative research design - Assign exercise to design quantitative research on selected topic (Individual work)	- Exercise: research title, background and significance of the problem, research questions, research objectives, hypotheses (Individual work) - Exercise: Conceptual framework and operational definition (Individual work) - Exercise: Quantitative research design and validity (Individual work)
	CLO 4.2 Identify population and sample in quantitative research	- Discussion - Analyze determining population and sample from scenario provided (Group activity) - Assign exercise to Identify population and sample in quantitative research (Individual work)	Exercise: Identify population and sample in quantitative research (Individual work)
	CLO 4.3 Analyze quality of research instruments used in quantitative research	- Discussion - Analyze assessment the measurement properties used in scenario provided (Group activity)	- Exercise: Quality of research instruments (Individual work)

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20 June 2023

PLOs	Course/Module CLOs	Teaching Strategy/methods	Measurement and Evaluation Strategies/methods
		- Assign exercise of quality of research instruments (Individual work)	
	CLO 4.4 Depict data collection in quantitative research	- Discussion - Analyze data collection from scenario provided (Group activity – Assign exercise of data collection (Individual work)	- Exercise : Data collection (Individual work)
	CLO 4.5 Analyze data using computer software and interpret quantitative data	- Discussion - Practice using statistical software in data analysis (Group activity)	- Exercise: Data analysis (Individual work) - Examination
		- Practice interpretation and reporting the statistical data analysis (Group activity) - Assign exercise of data analysis (Individual work)	
	CLO 5 Design qualitative research, identify population and sample, analyze quality of research instruments, data collection, analyze and interpret qualitative data	- Discussion - Analyze qualitative research design from scenario provided (Group activity) - Self-study from VDO: Conducting qualitative research - Assign exercise of qualitative research (Individual work)	- Exercise: Qualitative research (Individual work)
	CLO 6 Explain principles of innovation, process of innovation development, developing innovation based on nursing research, and value creation of nursing research and innovation	- Discussion - Analyze development of the innovation from scenario provided (Group activity) - Assign exercise of innovation development (Individual work)	- Exercise: innovation development (Individual work)

Wangporn
20 June 2023

PLOs	Course/Module CLOs	Teaching Strategy/methods	Measurement and Evaluation Strategies/methods
PLO 2.3 Conduct research studies systematically and present research results for dissemination at the national or international level	CLO 7 Discuss dissemination and utilization of nursing research	<ul style="list-style-type: none"> - Discussion - Exercise: Critical appraisal - Self-study from video: How to critique a research article - Critique a quantitative research article (Group work) - Presentation of critiquing a quantitative research article (Group work) - Report of critiquing a quantitative research article (Group work) 	<ul style="list-style-type: none"> - Critical appraisal of research studies - Presentation: Critique a quantitative research article (critique presentation assessment form: Group work) - Report: Critique a quantitative research article (Report assessment form: Group work)
	CLO 8 Write and present research proposal	<ul style="list-style-type: none"> - Developing a research proposal under an advisor's supervision (Individual work) - Self study from video: How to develop a nursing research proposal - Presentation of nursing research proposal (Individual work) 	<ul style="list-style-type: none"> - Presentation of research proposal (Presentation assessment form: Individual work) - Report of research proposal (Report assessment form: Individual work) - Progress of self-study (Progress of self-study assessment form: Individual work)
PLO 1.1 Demonstrate academic ethical behavior, ethics in research /innovation	CLO 9 Demonstrate ethics in developing research proposal	<ul style="list-style-type: none"> - Discussion of ethical considerations in conducting a research study - Assign task of writing informed consent (Individual work) - Assign task to check similarities of the contents in students' nursing research proposal 	<ul style="list-style-type: none"> - Exercise: Writing informed consent (Individual work) - Similarity index of the contents in students' nursing research proposal using the Copyleaks program: No more than 20% (Formative assessment)

PLOs	Course/Module CLOs	Teaching Strategy/methods	Measurement and Evaluation Strategies/methods
		using the Copyleaks program (Individual work) - Assign student to participate in human subject protection training program (Individual work)	(Individual work) - Certificate of human subject protection training program (Formative assessment)

2. Measurement tools and weight distribution

Course/Module CLOs	Measurement strategies/methods	Weighted score 100 percent	
CLO1 Use digital and information technology in searching and analyzing existing nursing research studies	Exercise: Searching relevant evidence for a literature review (Individual work)	0.5	2.5
	Exercise: Using statistical software in data analysis (Individual work)	2	
CLO 2 Analyze and summarize literature review related to research question	Exercise: Conducting and appraising a literature review (Individual work)	2.5	
CLO 3 Explain the significance and process of conducting research, analysis using statistics, and developing innovation in nursing	- Short answer questions (Individual work)	2.5	
CLO 4 Design quantitative study CLO 4.1 Identify a quantitative research design congruent with the research question CLO 4.2 Identify population and sample in quantitative research CLO 4.3 Analyze quality of research instrument used in quantitative research	Exercise: research title, background and significance of the problem, research questions, research objectives, hypotheses (Individual work)	2.5	45
	Exercise: Conceptual framework and operational definition (Individual work)	2.5	
	Exercise: Quantitative research design and validity (Individual work)	5	
	Exercise: Identify population and sample in quantitative research (Individual work)	2	

Course/Module CLOs	Measurement strategies/methods	Weighted score 100 percent	
CLO 4.4 Depict data collection in quantitative research CLO 4.5 Analyze data using computer software and interpret quantitative data	Exercise: Quality of research instruments (Individual work) Exercise: Data collection (Individual work) Exercise: Data analysis (Individual work) Examination	2 2 14 15	
CLO 5 Design qualitative research, identify population and sample, analyze quality of research instruments, data collection, analyze and interpret qualitative data	Exercise: Qualitative research (Individual work)	5	
CLO 6 Explain principles of innovation, process of innovation development, developing innovation based on nursing research, and value creation of nursing research and innovation	Exercise: Innovation in nursing (Group work)	5	
CLO 7 Discuss dissemination and utilization of nursing research	- Exercise: Critical appraisal (Group work) - Presentation: Critique a quantitative research article (critique presentation assessment form: Group work) - Report: Critique a quantitative research article (Report assessment form: Group work)	2.5 5 5	12.5
CLO 8 Write and present research proposal	- Presentation of research proposal (Presentation assessment form: Individual work) (Presentation 1 and presentation 2 5% for each presentation) - Report of research proposal (Report assessment form: Individual work) - Progress of self-study (Progress of self-study assessment form: Individual work)	10 10 2.5	22.5
CLO 9 Demonstrate ethics in developing research proposal	- Exercise: Writing informed consent (Individual work)	2.5	

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20 June 2023

3. Grading System

Score	Grade
≥ 90.00	A
85.00-89.99	B+
80.00-84.99	B
75.00-79.99	C+
70.00-74.99	C
65.00-69.99	D+
60.00-64.99	D
55.00-59.99	E
Incomplete*	I

*Students fail to complete their work within the specified time or miss an exam. Under certain circumstances, the grades must be revised to grade level within the first 6 weeks of the next semester in which the student is enrolled. Otherwise, the university will immediately change the I symbol to an E grade level.

4. Appeal procedure

Comply with Prince of Songkla University's regulations on graduate studies B.E. 2563 and in case students have questions; students can request to check the results of this course only during 1 semester/or after the semester you are enrolled.

5. Course/Module description

Process of nursing research; design and methodology of quantitative and qualitative research to develop innovation, principles of statistics, data analysis and interpretation, using digital and information technology; evidence-based utilization; creating value added in nursing research and innovation; utilization and dissemination of nursing research and innovation; development of research concept proposal; academic, research and innovation integrity

6. Number of hours

[✓] Teaching) (Theory) 90 (Practice) 30 with seminar & class presentation and Self-study 135

Consultation after class) 2 hours/student/week

Students can consult course coordinators in an extra time after class by appointment via email. In addition, students can meet any course coordinator as in the available schedule in the table below:

Course/Module coordinator	Week	Date	Time
Asst. Prof. Dr. Charuwan Kritpracha	1-6	Monday	16.30-18.30 pm.
Asst. Prof. Dr. Hathairat Sangchan	7-12	Monday	16.30-18.30 pm.

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20 June 2023

7. Materials/Support

7.1 Requirement reading book

- Boswell, C., & Cannon, S. (2020). *Introduction to nursing research: Incorporating evidence-based Practice* (5th ed.). Jones & Bartlett Learning. (WY20.5 I61 2020)
- Cohen, J. (1988). *Statistical power analysis for the behavioral sciences* (2nd ed.). Lawrence Erlbaum Associates.
- Gray, J. R., & Grove, S. K. (2022). *Burns & Grove the practice of nursing research: Appraisal, synthesis, and generation of evidence*. Elsevier. (WY20.5G779b2021)
- Holloway, I., & Galvin, K. (2017). *Qualitative research in nursing and healthcare* (4th ed.). Wiley-Blackwell. (WY20.5 H745q 2017)
- Kellar, S. P. & Krlvin, E. A. (2013). *Munro's Statistical methods for health care research* (6th ed.). Lippincott Williams & Wilkins. (WA950 K29m 2013)
- Polit, D. F., & Beck, C. T. (2021). *Nursing research: Generating and assessing evidence for nursing practice* (11th ed.). Wolters Kluwer. (WY20.5 P769n 2021)
- Polit, D. F., & Beck, C. T. (2018). *Essentials of nursing research: Appraising evidence for nursing practice* (9th ed.). Lippincott Wolters Kluwer. (WY20.5 P769e 2018)

7.2 Suggested Books and Other Resources

7.2.1 Suggested Books

- Creswell, J. W. (2014). *Research design: qualitative, quantitative, and mixed methods approaches* (4th ed.). SAGE. (H62 C74 2014)
- Gray, J. R., Grove, S. K., & Sutherland, S. (2017). *Burns and Grove's the practice of nursing research: Appraisal, synthesis, and generation of evidence* (8th ed.). Elsevier. (WY20.5 G779b 2017)
- Privitera, G. J. (2012). *Statistics for the behavioral sciences*. SAGE. (HA29 P961s 2012)
- Tabachnick, B. G., & Fidell, L. S. (2013). *Using multivariate statistics* (6th ed.). Pearson/Allyn & Bacon. (QA278 T112u 2013)
- Waltz, C. F., Strickland, O. L., & Lenz, E. R. (2017). *Measurement in nursing and health research* (5th ed.). Springer. (WY20.5 W242m 2017)

7.2.2 Electronic databases or websites:

EBSCO host

Basic Search: EBSCOhost

ProQuest e-book

lib.med.psu.ac.th/eservice/ebook/indexProQuest.php

ProQuest Nursing

Basic Search - Nursing & Allied Health Premium - ProQuest

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20 June 2023

Section 3: Plan

[✓] Course/Module Specification plan

Date/Month Year/ Time	Items/content	Teaching & Learning activities/teaching materials	Evaluation	Lecturers
Week 1 July 4, 2023 08.30-09.00 (0.5 hour)	Course orientation	- Discussion - LMS2@PSU	- Participation	- Asst. Prof. Dr. Charuwan Kritpracha - Asst. Prof. Dr. Hathairat Sangchan
Week 1 July 4, 2023 09.00-11.00 (2 hours)	1. Paradigms and research methods in nursing: Trends and future directions in nursing research 2. Concepts and steps in nursing research (quantitative research, qualitative research, mixed methods research, research and development)	- Discussion - Group activity using online application to delineate significance of research - LMS2@PSU	- Short answer question (Individual work) - Participation	Asst. Prof. Dr. Luppana Kitrungrote
Week 1 July 4, 2023 11.00-12.00 13.00-16.00 (4 hours)	3. Research title, research questions, research objectives, variables (Definitions, types, levels of measurement) hypotheses, scope of research, significance of research study	- Discussion - LMS2@PSU	- Exercise: Research title, research questions, research objectives (Individual work)	Asst. Prof. Dr. Charuwan Kritpracha
Week 2 July 11, 2023 09.00-10.00 (1 hour)	1 st Meeting with the advisor (research title, background and significance of the problem, research questions, research objectives, hypotheses)	- Self-study from video: How to develop a nursing research proposal - Develop a nursing research proposal (GS 01-35 form) - Self-study under the advisor's supervision	Progress of self- study (Individual work)	- Advisors - Asst. Prof. Dr. Charuwan Kritpracha - Asst. Prof. Dr. Hathairat Sangchan
Week 2 July 11, 2023 10.00-12.00 13.00-17.00 (6 hours)	4. Literature review and utilizing evidence in developing research - Purposes of literature review - Strategies to search and gather relevant evidence for a literature review	- Discussion - LMS2@PSU - Self-study from video: Conducting literature review - Practice searching existing research	Exercise: Conducting and appraising a literature review (Individual work)	Asst. Prof. Dr. Ratjai Vachprasit

Date/Month Year/ Time	Items/content	Teaching & Learning activities/teaching materials	Evaluation	Lecturers
	<ul style="list-style-type: none"> - Types of literature review - Processes of literature review - Appraising and grading the Evidence - Generating evidence-based table for literature review 	studies using digital and information technology <ul style="list-style-type: none"> - Conducting and appraising a literature review 		
Week 3 July 18, 2023 09.00-12.00 (3 hours)	5. Theoretical and conceptual frameworks in nursing research <ul style="list-style-type: none"> - Characteristics of theories, models, and frameworks - Conceptual models and theories used in nursing research - Using a theory or framework in research 	<ul style="list-style-type: none"> - Discussion - LMS2@PSU - Writing conceptual framework - Writing operational definition 	Exercise: Conceptual framework and operational definition (Individual work)	- Asst. Prof. Dr. Hathairat Sangchan
	<ul style="list-style-type: none"> - Writing conceptual framework - Writing operational definition 			
Week 3 July 18, 2023 13.00-15.00 (2 hours)	6. Quantitative research design 6.1 Non-experimental research designs	<ul style="list-style-type: none"> - Discussion - LMS2@PSU - Analyze non-experimental research designs from scenario provided (Group activity) 	Exercise: Non-experimental research designs (Individual work)	Asst. Prof. Dr. Charuwan Kritpracha
Week 3 July 18, 2023 15.00-17.00 (2 hours)	6.2 Experimental research designs	<ul style="list-style-type: none"> - Discussion - LMS2@PSU - Analyze experimental research designs from scenario provided (Group activity) 	Exercise: Non-experimental research designs (Individual work)	- Asst. Prof. Dr. Hathairat Sangchan
Week 4 July 25, 2023 9.00-11.00 (2 hours)	- Validity in quantitative research	<ul style="list-style-type: none"> - Discussion - LMS2@PSU - Analyze validity in quantitative research from scenario provided (Group activity) 	- Exercise: validity in quantitative research (Individual work)	Asst. Prof. Dr. Charuwan Kritpracha

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26 June 2023

Date/Month Year/ Time	Items/content	Teaching & Learning activities/teaching materials	Evaluation	Lecturers
Week 4 July 25, 2023 11.00-12.00 (1 hour)	2 nd Meeting with the advisor (literature review, research framework, definition of term, Scope of research, significance of research, and research design)	- Self-study from video: How to develop a nursing research proposal - Develop a nursing research proposal (GS 01-35 form) - Self-study under the advisor's supervision	Progress of self- study (Individual work)	- Advisors - Asst. Prof. Dr. Charuwan Kritpracha - Asst. Prof. Dr. Hathairat Sangchan
Week 4 July 25, 2023 13.00-17.00 (4 hours)	7. Population and sample - Concept of sampling (populations, samples and sampling) - Sampling design - Sample size	- Discussion - LMS2@PSU - Analyze determining population and sample from scenario provided (Group activity)	Exercise: Identify population and sample in quantitative research (Individual work)	Asst. Prof. Dr. Chantra Promnoi
Week 5 August 8, 2023 9.00-12.00 13.00-15.00 (5 hours)	8. Instrument and data collection - Definition and advantages of measurement - Error of measurement - Types of measures - Developing research instruments - Examining measurement properties (validity and reliability) - Data collection	- Discussion - LMS2@PSU - Analyze assessment the measurement properties used in scenario provided (Group activity)	- Exercise: Quality of research instruments and data collection (Individual work)	Asst. Prof. Dr. Ratjai Vachprasit
Week 6 August 15, 2023 9.00-10.00 (1 hour)	Presentation time 1 (research title, background and significance of the problem, research questions, research objectives, hypotheses, outline of literature review, research framework, definition of term, Scope of research, significance of research, and references)	- Presentation - Draft report (formative assessment)	- Formative assessment - Presentation assessment (Individual work)	- Advisors - Asst. Prof. Dr. Charuwan Kritpracha - Asst. Prof. Dr. Hathairat Sangchan
Week 6 August 15, 2023 10.00-12.00 13.00-15.00 (4 hours)	9. Concept and principle of statistical analysis in nursing research -Probability - Concept and principle of	- Discussion - LMS2@PSU	- Exercise: Probability, hypothesis testing, assumptions	Asst. Prof. Dr. Luppana Kitrungrote <i>Wangpon 20 June 2023</i>

Date/Month Year/ Time	Items/content	Teaching & Learning activities/teaching materials	Evaluation	Lecturers
	hypothesis testing - Assumptions for statistical tests		testing (Individual work) - Examination	
Week 6 August 15, 2023 15.00-17.00 Week 7 August 8, 2023 9.00-11.00 (4 hours)	10. Use of computer software for statistical analysis - Data Entry - Data Screening - Data management	- Discussion - LMS2@PSU - Practice of using statistical software in data analysis	- Observe the use of statistical software in data analysis (Formative assessment) - Exercise: Using statistical software in data analysis (Individual work)	Asst. Prof. Dr. Ratjai Vachprasit
Week 7 August 22, 2023 11.00-12.00 13.00-15.00 (3 hours)	11. Quantitative data analysis 11.1 Descriptive statistics Frequency distribution - Frequency distribution - Measures of central tendency - Measures of dispersion	- Discussion - LMS2@PSU - Practice of data analysis using descriptive statistics, reading and interpreting output	- Observe the use of statistical software in data analysis (Formative assessment) - Exercise: Using descriptive statistics in data analysis, interpretation and reporting the results (Individual work)	Asst. Prof. Dr. Charuwan Kritpracha
Week 8 August 29, 2023 8.00-11.00 (3 hours)	11.2 Correlational statistics	- Discussion - LMS2@PSU - Practice of data analysis using correlational statistics, reading and interpreting output	- Observe the use of statistical software in data analysis (Formative assessment) - Exercise: Using descriptive statistics in data analysis, interpretation and reporting the	Asst. Prof. Dr. Charuwan Kritpracha <i>Wanpen 20 Aug 2023</i>

Date/Month Year/ Time	Items/content	Teaching & Learning activities/teaching materials	Evaluation	Lecturers
			results (Individual work) - Examination	
Week 8 August 29, 2023 11.00-12.00 13.00-16.00 (4 hours)	11.3 Regression statistics	- Discussion - LMS2@PSU - Practice of data analysis using regression statistics, reading and interpreting output	- Observe the use of statistical software in data analysis (Formative assessment) - Exercise: Using regression statistics in data analysis, interpretation and reporting the results (Individual work)	Asst. Prof. Dr. Charuwan Kritpracha / Dr. Chuleeporn Prompahakul
Week 9 September 5, 2023 09.00-12.00 (3 hours)	Examination 1: Topic 9, 11.2	Examination	Examination	- Asst. Prof. Dr. Charuwan Kritpracha - Asst. Prof. Dr. Hathairat Sangchan
Week 10 September 12, 2023 9.00-12.00 (3 hours)	12. Statistical analysis for experimental study 12.1 t-test (independent t-test, paired t-test)	- Discussion - LMS2@PSU - Practice of data analysis using t-test, reading and interpreting output	- Observe the use of statistical software in data analysis (Formative assessment) - Exercise: Using regression statistics in data analysis, interpretation and reporting the results (Individual work) - Examination	Dr. Duangsuda Siripituphum / Assoc.Prof.Dr. Wipa Sae Sia <i>Wangpon 20 June 2023</i>
Week 10 September 12, 2023	12.2 Analysis of variance analysis (ANOVA)	- Discussion - LMS2@PSU	- Observe the use of statistical software in data	Asst. Prof. Dr. Ratjai Vachprasit

Date/Month Year/ Time	Items/content	Teaching & Learning activities/teaching materials	Evaluation	Lecturers
13.00-16.00 (3 hours)		- Practice of data analysis using ANOVA, reading and interpreting output	analysis (Formative assessment) - Exercise: Using ANOVA in data analysis, interpretation and reporting the results (Individual work) - Examination	
Week 11 September 19, 2023	13. Non-parametric statistics 13.1 Assumptions for non-parametric techniques	- Discussion - LMS2@PSU - Practice of data analysis using non-parametric statistics, reading and interpreting output	- Observe the use of statistical software in data analysis (Formative assessment) - Exercise: Using non-parametric statistics in data analysis, interpretation and reporting the results (Individual work)	Asst. Prof. Dr. Jintana Damkliang
09.00-12.00 13.00-14.00 (4 hours)	13.2 Non-parametric alternative for correlation 13.3 Non-parametric alternative for group comparisons			
Week 12 September 26, 2023 09.00-12.00 (3 hours)	Examination 2: Topic 12.1, 12.2	Examination	Examination	- Asst. Prof. Dr. Charuwan Kritpracha - Asst. Prof. Dr. Hathairat Sangchan
Week 13 October 3, 2023 09.00-12.00 13.00-16.00 (6 hours)	17. Qualitative research methodology - Qualitative research: Philosophy, significance, types/designs - Trustworthiness and integrity in qualitative research - Sampling and data collection - Analysis of qualitative data	- Discussion - LMS2@PSU	Exercise: Qualitative research (Individual work)	Assoc. Prof. Dr. Waraporn Kongsuwan / Dr. Tussanee Khaw

Waraporn
20 June 2023

Date/Month Year/ Time	Items/content	Teaching & Learning activities/teaching materials	Evaluation	Lecturers
Week 14 October 10, 2023 8.00-10.00 (2 hours)	15. Research and development (R & D) - Definition, conceptual framework, components, and methodology of R & D - The strengths and weaknesses of R & D	- Discussion - LMS2@PSU	Short answer questions (Individual work)	Asst. Prof. Dr. Luppana Kitrungrote
Week 14 October 10, 2023 10.00-12.00 13.00-14.00 (3 hours)	14. Research dissemination and utilization - Definition and impact of research dissemination and utilization - Processes of research dissemination and utilization, and related factors - Implementing evidence-based practice - Critical appraisal guidelines for quantitative studies	- Discussion - LMS2@PSU - Practice appraising a published article	- Short answer questions - Exercise: Critical appraisal (Group work)	Asst. Prof. Dr. Luppana Kitrungrote
Week 14 October 10, 2023 14.00-16.00 (2 hours)	- Critiquing a research article	- Discussion - LMS2@PSU - Self-study from video: How to critique a research article - Critique a quantitative research article (Group work)	- Progress of the critique (Formative assessment)	- Asst. Prof. Dr. Charuwan Kritpracha/Dr. Chuleeporn Prompahakul - Asst. Prof. Dr. Hathairat Sangchan
Week 15 October 17, 2023 9.00-11.00 (2 hours)	Presentation: Critique a quantitative research article Report: Critique a quantitative research article (Submit October 24, 2023)	- Self-study from video: How to critique a research article - Presentation of Critiquing a quantitative research article (Group work) - Report of Critiquing a quantitative research article (Group work)	- Presentation of critiquing a quantitative research article (Group work) - Presentation of critiquing a quantitative research article (Group work) - Check similarities of the	- Advisors - Asst. Prof. Dr. Charuwan Kritpracha/ Dr. Chuleeporn Prompahakul - Asst. Prof. Dr. Hathairat Sangchan Wangpon 20 June 2023

Date/Month Year/ Time	Items/content	Teaching & Learning activities/teaching materials	Evaluation	Lecturers
			contents using the Copyleaks program	
Week 16 October 24, 2023 8.00-9.00 (1 hour)	3 rd Meeting with the advisor (Research design, population and sample, Instruments, data collection, data analysis plan, and appendix)	- Self-study from video: How to develop a nursing research proposal - Develop a nursing research proposal (GS 01-35 form) - Self-study under the advisor's supervision	Progress of self- study (Individual work)	Advisors - Asst. Prof. Dr. Charuwan Kritpracha - Asst. Prof. Dr. Hathairat Sangchan
Week 16 October 24, 2023 09.00-12.00 13.00-16.00 (6 hours)	16. Principles of innovation and developing innovation process, design thinking, value creation, intellectual properties, diffusion of innovation	- Discussion - LMS2@PSU	Exercise: Innovation in nursing (Group work)	Assoc. Prof. Dr. Kantaporn Yodchai
Week 17 October 31, 2023 09.00-12.00 (3 hours)	18. Ethics in research and human subjects protection - Ethical principles in research - Procedures for protecting study participants - Conducting research in vulnerable participants - Writing informed consent - Ethical consideration for disseminating research findings	- Discussion - LMS2@PSU	Exercise: Writing informed consent (Individual work)	Asst. Prof. Dr. Chantra Promnoi
Week 17 October 31, 2023 13.00-15.00 (2 hours)	4 th Meeting with the advisor (final draft of research proposal, preparation of research proposal presentation)	- Self-study from video: How to develop a nursing research proposal - Develop a nursing research proposal (GS 01-35 form) - Self-study under the advisor's supervision	Progress of self- study (Individual work)	Advisors - Asst. Prof. Dr. Charuwan Kritpracha - Asst. Prof. Dr. Hathairat Sangchan
Week 18 November 7, 2023 9.00-10.00	Presentation of research proposal	- Present research proposal	- Presentation of research proposal	Advisors <i>Wanpon</i> <i>20 June 2023</i>

Date/Month Year/ Time	Items/content	Teaching & Learning activities/teaching materials	Evaluation	Lecturers
(2 hours)	(Submit report of research proposal on November 10, 2023)	- Write report of research proposal	(individual work) - Report of research proposal (individual work) - Check similarities of the contents using the Copyleaks program	- Asst. Prof. Dr. Charuwan Kritpracha - Asst. Prof. Dr. Hathairat Sangchan
Week 18 November 7, 2023 10.00-11.00 (1 hour)	Course evaluation	Discussion		- Asst. Prof. Dr. Charuwan Kritpracha - Asst. Prof. Dr. Hathairat Sangchan

Note: 1. Students are required to have 15 hours for self-directed learning

Consequences of Academic Misconduct (Plagiarism)

The report paper will be checked against the similarities of the content using the Turnitin program. Course coordinators have practice guidelines for students' academic misconduct (plagiarism) or unethical academic working decided by consensus of the graduate committees, Faculty of Nursing at the meeting (no. 10/2012) on October 11, 2012. When the subject is audited, regardless of whether the course was completed, there will be a final evaluation. The student will be warned if the reader reviews a student's submitted paper draft and detects plagiarism. You will receive "N" (Non-satisfactory). A second offense will result in a fail "E" for the course.

Feedback

According to the consensus of the graduate committee in the meeting (special no. 2/2021) on May 2, 2021, the Faculty of Nursing revised and updated regulations of giving graduate students feedback about their assignments/paper, practice course assignments, thesis/minor thesis as follows;

1. The lecturers must give feedback within 1-2 weeks after students have submitted their assignments/paper/thesis.

1.1 Theory courses must give feedback within 1-2 weeks.

1.2 Practice courses must give feedback as appropriate to the practice.

2. Students must submit the last assignments/paper before the due date to give time for it to be read and reviewed before giving feedback. Students will get feedback after presentation of their final assignments/paper in class.

Wongpan
20 June 2023