

## Course specification

### RARD 588: Research Methodology

Institute Name: Mahidol University

Campus/Faculty/Department: Faculty of Medicine, Ramathibodi Hospital, Department of Diagnostic and Therapeutic Radiology

#### Section 1: General information

1. Course number and name

Course number: RARD 588

Course name: Research Methodology

2. Credit: 1(1-0-2)

3. Curriculum and type of course

3.1 Curriculum: Research methodology

3.2 Type of course: Core course

4. Instructors

4.1 Course Coordinator: Lect. Dr.Putthiporn Charoenphun (PC)

4.2 Instructors:

Asst. Prof.Dr.Sawwanee Asavaphatiboon (SA)

Lect. Dr.Puangpen Tangboonduangjit (PT)

Lect. Dr.Krisanat Chuamsaamarkkee (KC)

Asst. Prof.Dr.Supakajee Saengruangorn (SS)

5. Semester/Year: 2<sup>nd</sup> Semester, 1<sup>st</sup> year student

6. Pre-requisite: None

7. Co-requisite: None

8. Classroom: To be announced

9. Revision Date:20<sup>th</sup> November 2019 By: Committee

#### Section 2: Purpose and Objective

1. Course Learning Outcome

1.1 Be able to understand and apply research concepts, techniques and process.

1.2 Be able to interpret published research evidence in order to obtain the research problem/issue for further investigation.

1.3 Be able to conduct the research study using suitable methodologies.



## Section 5: Lesson plan and assessment

### 1. Lesson plan

<b>Time</b>	<b>Topic</b>	<b>Instructor</b>	<b>Method</b>	<b>Assessment</b>
2 h	Introduction to research and research ethics, literature survey	PC/ SS	- Lecture - Group discussion	- Q&A, feedback
2 h	Presenting a scientific issue, oral presentation, management and presentation skills, poster presentation	PC/ SS	- Lecture - Group discussion	- Q&A, feedback
2 h	Writing research proposal	PC/ SS	- Lecture - Written research proposal	- Rubric report
9 h	Present designed project	All staff member	- Presentation - Group discussion	- Rubric presentation - Participation

### 2. Measurement and evaluation of student achievement

2.1 Written research proposal	40%
2.2 Presentation	40%
2.3 Class participation	20%

## Section 6: Assessment and improvement of the course operation

1. Strategy to assess the effectiveness of the course by the students
  - Assessment of the course by student
2. Strategy to assess the instruction
  - Assessment of student's learning records
  - Assessment of instructor's teaching by student
3. Improvement of instruction
  - Consider the students' learning records
  - Consider the students' assessment of instructor's teaching
  - Consider the program committee's comment
4. Verification of student achievement in the subject
  - By program committee and faculty-level academic committee
5. Review and action plan to improve the effectiveness of the course
  - Using the results from 1-4 as inputs to the instruction improvement

