

Course Syllabus (Draft)

Course Title Research Methodology in Health Sciences

Code 160704

Credits 3(2-2-5)

Type of course Required course (no credit counted)

Course Description

Approaches in conducting research in life sciences including topic setting, literature search and evaluation, proposal preparation, research planning and design, calculation and basic laboratory skills, laboratory safety, presentation and publicizing of research work, animal rights and ethical considerations

Course Objectives The objectives of this course are for students to:

- understand the terms and processes of conducting a research study
- have calculation and basic laboratory skills and concern laboratory safety issue
- realize the importance of animal rights and ethics in conducting research study
- know the principle of presentation and publicizing of research work
- be able to apply the obtained knowledge to writing a research proposal in their interested topics

Course Evaluation

By instructor of each topic; examination (in class or take home), quiz, assignment, class attention and/or performance 76 %

Term assignment: oral presentation of concept research proposal 24 %

Grading System S/U

≥ 70 % S

< 70 % U

Course Director

Dr. Dumrongsak Pekthong

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Course Instructors

From the Faculty of Pharmaceutical Sciences, Naresuan University

Associate Professor Dr. Kornkanok Ingkaninan	k_ingkaninan@yahoo.com
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From Medical Sciences Library, Naresuan University

Mrs Walulee Bhodhirungsiyakorn	Senior Librarian
	Tel 7866
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Class Schedule (Draft)

Day & Time: Lecture; Tuesday 13:00-15:00 Laboratory; Tuesday 15:00-17:00 Room: 2208

Week	Date	Lec (h)	Lab (h)	Topic/Brief Content	Instructor	Score
1	20 Aug 13 13:00-15:00	2		Sources of information (Introduction to Naresuan University library)	Walulee (Computer room)	3%
	20 Aug 13 15:00-17:00	2		Laboratory safety	Vipada	3%
2	27 Aug 13 13:00-17:00	2	2	Literature Review and Evaluation	Chuenjid	8%
3	3 Sep 13 13:00-15:00		2	Literature Review and Evaluation (Assignment)		
	3 Sep 13 15:00-17:00	2		Calculations used in experimental research	Tasana	12%
4	10 Sep 13 13:00-17:00	2	2	Calculations used in experimental research (cont.)		
5	17 Sep 13 13:00-15:00		2	Calculations used in experimental research (cont.)	Nantaka	12%
	17 Sep 13 15:00-17:00	2		Basic laboratory skills (<i>room 5203</i>)		
6	24 Sep 13 13:00-17:00	2	2	Basic laboratory skills (<i>room 5203</i>)	Dumrongsak	4%
7	1 Oct 13 13:00-15:00		2	Basic laboratory skills (<i>room 5203</i>)		
	1 Oct 13 15:00-17:00	2		In Vitro-In Vivo Extrapolation	7-11 Oct 13 (Midterm Exam)	
9	15 Oct 13 13:00-17:00	2	2	Introduction to research, Research design in Pharmaceutical sciences	Nanteetip	6%
10	22 Oct 13 13:00-17:00	2	2	Effective presentation (poster, oral, slide)	Rattima	8%
11	29 Oct 13 13:00-15:00		2	Effective presentation (poster, oral, slide) (Assignment)		
	29 Oct 13 15:00-17:00	2		Published or Perished	Manupat	8%
12	5 Nov 13 13:00-17:00		4	Published or Perished (Assignment)		
13	12 Nov 13 13:00-15:00	2		How to write a good research proposal	Kornkanok	4%
	12 Nov 13 15:00-17:00	2		Ethic in human and animal research	Nuttawut	8%

Week	Date	Lec (h)	Lab (h)	Topic/Brief Content	Instructor	Score
14	19 Nov 13 13:00-17:00		4	Ethic in human and animal research (Assignment)		
15	26 Nov 13 13:00-17:00	4		Term assignment: concept proposal presentation 1	Nanteetip, Kornkanok, Dumrongsak	12%
16	3 Dec 13 13:00-17:00		4	Term assignment: concept proposal presentation 2	Nanteetip, Kornkanok, Dumrongsak	12%
9-20 Dec 13 (Final Exam)						

Lecture 30 h, Laboratory 30 h