

Doctor of Philosophy Program in Medical Science
Faculty of Associated Medical Sciences, Khon Kaen University, Thailand

Program overview:	The program provides the in-depth knowledge on medical sciences and advanced technologies as well as the opportunity to conduct an ethically advanced research in areas of interests.																													
Aims:	<ul style="list-style-type: none"> - To develop and/or enhance students' skills in conducting advanced research, critical thinking and creativity in order to be an effective and knowledgeable health professional as well as a productive and versatile researcher or lecturer - To develop and/or increase awareness of professional and research ethics. - To develop and/or improve the ability to communicate and share experience with other health professionals. 																													
Program structure	<p>Two main types of programs are provided; i.e. type 1 (non-course work) and type 2 (with course work), each of which is divided into 2 subtypes. Program structure and credits required are as follows;</p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr> <th rowspan="2">Program structure</th> <th colspan="4">Credit</th> </tr> <tr> <th>Type 1.1</th> <th>Type 1.2</th> <th>Type 2.1</th> <th>Type 2.2</th> </tr> </thead> <tbody> <tr> <td>Compulsory Courses</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">8</td> <td style="text-align: center;">13</td> </tr> <tr> <td>Elective Courses</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">4</td> <td style="text-align: center;">11</td> </tr> <tr> <td>Dissertation</td> <td style="text-align: center;">48</td> <td style="text-align: center;">72</td> <td style="text-align: center;">36</td> <td style="text-align: center;">48</td> </tr> <tr> <td>Total</td> <td style="text-align: center;">48</td> <td style="text-align: center;">72</td> <td style="text-align: center;">48</td> <td style="text-align: center;">72</td> </tr> </tbody> </table> <p>For type 1 (non-course work) program:</p> <ul style="list-style-type: none"> - Students are requested to register 4 seminar courses (I to IV) organized by the program committee. - Students may take some course works without credits on his/her own requirement or as requested by the advisory committee. 	Program structure	Credit				Type 1.1	Type 1.2	Type 2.1	Type 2.2	Compulsory Courses	-	-	8	13	Elective Courses	-	-	4	11	Dissertation	48	72	36	48	Total	48	72	48	72
Program structure	Credit																													
	Type 1.1	Type 1.2	Type 2.1	Type 2.2																										
Compulsory Courses	-	-	8	13																										
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Dissertation	48	72	36	48																										
Total	48	72	48	72																										
Applicant qualifications:	<p>Type 1.1 and 2.1 Applicants must have a Master's degree in a field of sciences or related disciplines including medicine, dentistry, and/or other degrees approved by the program committee.</p> <p>Type 1.2 and 2.2 Applicants must have a Bachelor's degree in a field of sciences or related disciplines including medicine, dentistry, and/or other degrees approved by the program committee.</p>																													
Duration of study	3 years for types 1.1 & 2.1, and 4-5 years for types 1.2 & 2.2																													
Scholarships:	Scholarships are available for students from both Thailand and ASEAN countries. Sources of funding include Khon Kaen University, Centre for Research and Development of Medical Diagnostic Laboratories (CMDL), Faculty of Associated Medical Sciences, Thailand Research Fund and other organizations and agencies.																													

List of courses

1. Compulsory course:

Type 2.1

AM437712 Research Practicum in Medical Science 2(1-3-4)

AM437763 Advanced Molecular Biology in Medical Science 2(2-0-4)

AM437991	Seminar I	1(1-0-3)
AM437992	Seminar II	1(1-0-3)
AM437993	Seminar III	1(1-0-3)
AM437994	Seminar IV	1(1-0-3)

Type 2.2

AM427502	Clinical Biochemistry and Medical Molecular Biology	2(2-0-4)
AM427503	Molecular Biology and Related Techniques in Medical Sciences	3(2-3-5)
AM437712	Research Practicum in Medical Science	2(1-3-4)
AM437763	Advanced Molecular Biology in Medical Science	2(2-0-4)
AM437991	Seminar I	1(1-0-3)
AM437992	Seminar II	1(1-0-3)
AM437993	Seminar III	1(1-0-3)
AM437994	Seminar IV	1(1-0-3)

2. Elective course:

AM427504	AM427504 Critical Appraisal of Medical Sciences Research Articles	2(2-0-4)
AM427302	AM427302 Integration of Laboratory Results for Thalassemia Diagnosis	1(1-0-3)
AM427301	AM427301 Molecular Pathogenesis and Analysis of Thalassemia	2(1-3-4)
AM137206	AM137206 Molecular Bacterial Genetics	2(2-0-4)
AM427420	AM427420 Molecular Genetics of Major Histocompatibility Complex	2(2-0-4)

Note: In addition to these elective courses, students may enroll other courses approved by thesis advisor.

3. Dissertation

Each student selects a major advisor prior to conducting a research. A dissertation committee is appointed to assist the student in planning and conducting the study. Every semester, student must report thesis progress to the committee.

Example of study plan

		Credit			
		Type 1.1	Type 1.2	Type 2.1	Type 2.2
Year 1/Semester 1					
MD567712	Cells and Molecular Biology	-	-	-	3
AM427502	Clinical Biochemistry and Medical Molecular Biology	-	-	-	2
AM437712	Research Practicum in Medical Science	-	-	2	2
AM437996	Dissertation	9	-	-	-
AM437997	Dissertation	-	9	-	-
AM437998	Dissertation	-	-	3	-
XXX XXX	Elective course	-	-	4	2
Total credits registered		9	9	9	9
Cumulative credits		9	9	9	9

Year 1/Semester 2

AM427503	Molecular Biology Techniques in Medical Sciences	-	-	-	3
AM437991	Seminar I	-	-	1	1
AM437996	Dissertation	9	-	-	-
AM437997	Dissertation	-	9	-	-
AM437998	Dissertation	-	-	8	-
AM437999	Dissertation	-	-	-	3
XXX XXX	Elective course	-	-	-	2
Total credits registered		9	9	9	9
Cumulative credits		18	18	18	18
		Credit			
		Type1.1	Type1.2	Type2.1	Type2.2
Year 2/Semester 1					
AM437763	Advanced Molecular Biology in Medical Science	-	-	2	2
AM437992	Seminar II	-	-	1	1
AM437996	Dissertation	9	-	-	-
AM437997	Dissertation	-	9	-	-
AM437998	Dissertation	-	-	6	-
AM437999	Dissertation	-	-	-	4
XXX XXX	Elective course	-	-	-	2
Total credits registered		9	9	9	9
Cumulative credits		27	27	27	27
Year 2/Semester 2					
AM437993	Seminar III	-	-	1	1
AM437996	Dissertation	9	-	-	-
AM437997	Dissertation	-	9	-	-
AM437998	Dissertation	-	-	8	-
AM437999	Dissertation	-	-	-	6
XXX XXX	Elective course	-	-	-	2
Total credits registered		9	9	9	9
Cumulative credits		36	36	36	36
Year 3/Semester 1					
AM437994	AM437994 Seminar IV	-	-	1	1
AM437996	Dissertation	9	-	-	-
AM437997	Dissertation	-	9	-	-
AM437998	Dissertation	-	-	8	-
AM437999	Dissertation	-	-	-	8
Total credits registered		9	9	9	9
Cumulative credits		45	45	45	45
Year 3/Semester 2					
AM437996	Dissertation	3	-	-	-
AM437997	Dissertation	-	9	-	-
AM437998	Dissertation	-	-	3	-
AM437999	Dissertation	-	-	-	9
Total credits registered		3	9	3	9
Cumulative credits		48	54	48	54
Year 4/Semester 1					
AM437996	Dissertation	-	-	-	-

AM437997	Dissertation	-	9	-	-
AM437998	Dissertation	-	-	-	-
AM437999	Dissertation	-	-	-	9
Total credits registered		-	9	-	9
Cumulative credits		-	63	-	63
Year 4/Semester 2					
AM437996	Dissertation	-	-	-	-
AM437997	Dissertation	-	9	-	-
AM437998	Dissertation	-	-	-	-
AM437999	Dissertation	-	-	-	9
Total credits registered		-	9	-	9
Cumulative credits		-	72	-	72

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