

Doctor of Philosophy (Genetic Engineering and Bioinformatics)

Curriculum. A, 1.1

The credits required for the course of not less than 48 credits.

1. Major	No less than 6 credits (not counting the credits).		
	- 01554697 Seminar	1,1,1,1	(4 credits, not counting)
	<u>Major force</u>	<u>2 credits</u>	<u>(not counting the credits)</u>
	- 01554691 Research Methods in Genetic Engineering and Bioinformatics	2(2-0-4)	(2 credits, not counting)
2. Thesis	No less than 48 credits. (Credits)		
	- 01554699 Thesis	1-48	(48 credits, count)

Curriculum. A, 1.2

The credits required for the course of not less than 72 credits.

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	- 01554697 Seminar	1,1,1,1,1,1	(6 credits do not count the credits)
	<u>Major force</u>	<u>4 credits</u>	<u>(Not counting credits)</u>
	- 01554691 Advanced Research Methods in Genetic Engineering and Bioinformatics	2(2-0-4)	(Not counting credits)
	- 01554591 Research Methods in Genetic Engineering and Bioinformatics	2(1-2-3)	(Not counting credits)
2. Thesis	Not less than 72 credits (count credits)		

Curriculum. B, 2.1

The credits required for the course of not less than 48 credits.

1. Major	No less than 12 credits (count credits)		
	- 01554697 Seminar	1,1,1,1	(4 credits count credits)
	<u>Major force</u>	<u>2 หน่วยกิต</u>	<u>(count credits)</u>
	- 01554591 Research Methods in Genetic Engineering and Bioinformatics	2(2-0-4)	(count credits)
	<u>Elective.</u>	<u>No less than 6 credits</u>	
	- 01554571 Bioinformatics	2(1-2-3)	(count credits)
	- 01554572 Genomes and	3(3-0-6)	(count credits)
	- 01554573 Epitopes Design Bioinformatics	2(1-2-3)	(count credits)

	- 01554671 Advanced Technologies in Gentic Engineering and Bioinformatics	3(3-0-6)	(count credits)
	- 01554672 Advanced Protein Bioinformatics	2(1-3-4)	(count credits)
	- 01554673 Advanced Genetic Engineering and Bioinformatics in Epitopes Analysis	2(2-0-4)	(count credits)
	- 01554674 Advanced Genetic	2(2-0-4)	(count credits)
	- 01554696 Selected Topics	1-3	(count credits)
	- 01554698 Special Problems	1-3	(count credits)
2. Thesis	No less than 36 credits.	(count credits)	
<u>Curriculum. B, 2.2</u>			
The credits required for the course of not less than 48 credits.			
1. Major	No less than 24 credits (count credits)		
	- 01554697 Seminar	1,1,1,1 ,1,1	(6 credits count credits)
	<u>Major force</u>	<u>10 credits</u>	<u>(count credits)</u>
	- 01554572 Genomes and Functions	3(3-0-6)	(count credits)
	- 01554591 Research Methods in	2(1-2-3)	(count credits)
	- 01554671 Advanced	3(3-0-4)	(count credits)
	- 01554691 Advanced Research	2(2-0-4)	(count credits)
	<u>Elective.</u>	<u>No less than 8 credits</u>	<u>(count credits)</u>
	- 01554571 Bioinformatics		(count credits)
	- 01554573 Epitopes Design		(count credits)
	- 01554574 Advanced Plant		(count credits)
	- 01554576 Bioinformatics for NGS		(count credits)
	- 01554672 Advanced Protein		(count credits)
	- 01554673 Advanced Genetic		(count credits)
	- 01554674 Advanced Genetic		(count credits)
	- 01554696 Selected Topics		(count credits)
	- 01554698 Special Problems		(count credits)
2. Thesis	No less than 48 credits.	(count credits)	

Note for elective courses students can choose course with the number after Russ five first 01554xxx no less than 5 credits from courses above. And choose the course in the field of genetic engineering and bioinformatics or another branch with a code number three end since 600 number no less than 3 credits. Student can choose the course or another both at home and abroad is the concentration does not exceed 3 credits.