Study Plan (AIMS)





Name:	Year of Enrollment:			
Matricle Number:	Mentor:			

1 st Semester (winter semester)			30 CP
		СР	
			_
Compulsory	Introduction to AIMS	5	х
	Mathematics for Engineers A	8	Х
	Programming in Python and Python Lab	8	х
	Biophysical Chemistry	8	
	Modern Optical Methods and Imaging	8	
Compulsory Elective (16-20 CP)	Solar and Chemical Energy Conversion*	8	
	Physical Biology of the Cell	10	
	Chemometrics	6	
	Theoretical Spectroscopy	8	
	Machine Learning in Computational Chemistry	8	
	A) Sum of achieved CP for Special	isation	
Compulsory	Ethics and Epistemology	5	х

Foundations	
12. Semester	
26 CP (total)	
Specialisation	
Spectroscopy and	
Imaging	
13. Semester	
37 CP (total)	
Key Qualifications	
13. Semester	
12 CP (total)	

^{*}Frequency of courses: lectures: irregularly; practical course: every semester

2 nd Semester (summer semester)			30 CP
		СР	
Compulsory	Scientific Software Engineering – Lab	5	Х
Compulsory Elective	Machine Learning for Data Science Pattern Recognition	5 5	
Compuisory Elective	Computer Lab Pattern Recognition Deep Learning Lab Methods of Uncertainty Analysis and Quantification	5 5 5	
Basic Module (5 CP)	Molecular Spectroscopy	5	х
Compulsory Elective (16-20 CP)	Solar and Chemical Energy Conversion* Sophisticated Imaging B) Sum of achieved CP for Specialisati	8 10 on	
Compulsory Elective	Elective Modules	7	

20 01 (1014.1)
Advanced Machine Learning and Al 23. Semester 15 CP (total)
Specialisation Spectroscopy and Imaging 13. Semester 37 CP (total)
Key Qualifications 13. Semester
12 CP (total)

Foundations 1.-2. Semester

^{*}Frequency of courses: lectures: irregularly; practical course: every semester

	3 rd Semester (winter semester)	30 CP	
	-	СР	-
Compulsory Elective	Datham Danagiti'a		Advanced Machine
	Pattern Recognition	5	Learning and Al
	(offered in German in winter term) Computer Lab Pattern Recognition	5	23. Semester
	Computer Lab Fattern Necognition	3	15 CP (total)
	Biophysical Chemistry	8	
	Modern Optical Methods and Imaging	8	
	Solar and Chemical Energy Conversion*	8	
	Physical Biology of the Cell	10	
	Chemometrics	6	Specialisation
Compulsory Elective	Theoretical Spectroscopy	8	Spectroscopy and
(16-20 CP)	Machine Learning in Computational Chemistry	8	Imaging
(10 20 0.7)	C) Sum of achieved CP for Special	isation	13. Semester
	37 CP - (A + B + C) = CP Research	Lab (12-16 CP)	37 CP (total)
	Research Lab	12-16 X	
	planned CP Research Lab		
Compulsory Elective	Ethics and Epistemology	5 x	Key Qualifications
	Elective Modules	7	13. Semester 12 CP (total)

^{*}Frequency of courses: lectures: irregularly; practical course: every semester

	4 th Semester (summer semester)		30 CP	
		СР		
Compulsory	Master Thesis	30	X	Master Thesis 4. Semester
, ,				30 CP
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Date: _____ Signature Student: _____ Signature Mentor: _____