

Applied Physics
BA Program
Curriculum

N	Components	Number of ECTS	Number of hours	lecture	Among them					Distribution of Credits over Semesters							
					Lab	Practice / lab	Work in groups	Practice	Individual study	I term.	II term.	III term	IV term	V term	VI term.	VII etm	VIII term
1	2	3	4	5	6	7	8	9	10	11	1	1	1	15	1	1	1
											2	3	4		6	7	8
	History of Georgia	3	75	15			1			3							
1	Intro to Philosophy	2	50	15			1			2							
2	Academic Writing	3	75	5			2			3							
3	Psychology	2	50	15			5			2							
4	English A1/B1.1.1	5	125				4			5							
5	English A2/B1.1.2	5	125				4				5						
6	English B1.1.1/B1.2.1	5	125				4					5					
7	English B1.1.2/B1.2.2	5	125				4						5				
8	Intro to Mathematics	5	125	30			3			5							
9	Intro to Mathematical Analysis	5	125	30			3				5						
10	Mathematical Analysis	5	125	15			3					5					
11	Algebra	5	125	15			3				5						
12	Geometry	5	125	15			3				5						
13	Theory of Probability and Mathematical Statistics	2	50	15			1					2					
14	Basics of Chemistry	5	125	15	1		1				5						
15	Basics of Biology	3	75	15			1					3					

16	Basics of Programming	5	125	30	30					5							
17	Computer Modeling of Physical Processes	5	125	15	30							5					
18	Intro to Physics	5	125	30				30		5							
19	Basics of Modern Physics	5	125	30				30			5						
20	Astronomy	5	125	30				15			5						
21	Climatography	5	125	30				15				5					
22	Basics of Applied Geophysics	5	125	30				15				5					
23	Basics of Applied Biophysics	5	125	30				30					5				
24	Physical Basics of Ecology	5	125	15				30						5			
25	Radiation Safety and Dosimetry	5	125	15				30								5	
26	Mechanics	5	125	15	20			30			5						
27	Molecular Physics	5	125	15	15			30				5					
28	Electricity and magnetism	5	125	15	20			30					5				
29	Optics	5	125	15	20			30						5			
30	Nuclear Physics	5	125	15	10			30								5	
31	Radio-Electronic Measurements	5	125	15	15			15					5				
32	Electronic techniques	5	125	15	15			15						5			
33	Applied Radio-physics	5	125	15	30			15								5	
34	Internship (Meteorological, Ecological, Medical Services, Abastumani Observatory) (მეტეოროლოგიური ო,	5	125								45						5
	Elective Courses of the Major (10 ECTS)																
35	Elective Major Subject 1	5	125									5					
36	Elective Major Subject 2	5	125										5				
	BA paper or Course in	10	250														160

	Fundamental Physics -																	0
	Minor or Free Components 60 ECTS	60	550	150	150	20	5	20	5	950	0	0	0	0	15	15	15	15
	Total	240	600	239	725	106	5	0	55	360	30	30	30	30	30	30	30	30