

**NIKOLA VAPTSAROV NAVAL ACADEMY**

Bulgaria, Varna 9002, 73 Vasil Drumev Str.

**II. CURRICULUM № 548-24**

Master's Degree Space Engineering and Technology

1 -year Degree Programme ( Full-time)

№	Subjects Наименование на дисциплина	Class Hours			Out of Class Hours	Total	Assessment		ECTS Credits
		Total	Lecture	Prctice			Final exam	Ongoing assessment	
<b>1st semester</b>									
1	Mission Analysis and Design <b>Анализ и проектиране на космически мисии</b>	45	12	33	105	150	X		5,0
2	Introduction to the Space Environment <b>Въведение в космическата среда</b>	45	10	35	105	150	X		5,0
3	Spacecraft System Design <b>Системно проектиране на космически апарати</b>	45	18	27	105	150	X		5,0
4	Embedded Systems for Space Applications <b>Вградени системи за космически приложения</b>	45	10	35	105	150	X		5,0
5	Spacecraft Communications <b>Комуникационни системи за космически апарати</b>	45	15	30	105	150	X		5,0
6	Elective from A Module <b>Избираема дисциплина от модул "А"</b>	45	0	45	105	150		X	5,0
<b>Total of 1st semester</b>		<b>270</b>	<b>65</b>	<b>205</b>	<b>630</b>	<b>900</b>	<b>5</b>	<b>1</b>	<b>30,0</b>
<b>2nd semester</b>									
7	Numerical simulations for Space Applications <b>Числени симулации за космически приложения</b>	45	15	30	105	150	X		5,0
8	Satellite Integration and Qualification <b>Интегриране и квалификация на сателити</b>	45	15	30	105	150	X		5,0
9	Specialized Course – by Subsystem <b>Специализиран курс по сателитни подсистеми</b>	90	30	60	150	240	X		8,0
10	Space 4.0 <b>Космос 4.0</b>	30	10	20	60	90	X		3,0
11	Course Project - Satellite Digital Twin <b>Курсов проект "Сателитен симулатор"</b>	30	0	30	90	120	X		4,0
12	Course Project - Satellite Integration and Operations <b>Курсов проект "Сателитна интеграция и операции"</b>	45	0	45	105	150	X		5,0
<b>Total of 2nd semester</b>		<b>285</b>	<b>70</b>	<b>215</b>	<b>615</b>	<b>900</b>	<b>6</b>	<b>0</b>	<b>30,0</b>
13	Extra Optional Subject B Module <b>Факултативна дисциплина от модул "Б"</b>	20	0	20	20	40			
	<b>THESIS DEFENSE</b> <b>Защита на дипломна работа</b>				450	450	X		15,0
<b>TOTAL FOR THE CURRICULUM</b>		<b>575</b>	<b>135</b>	<b>440</b>	<b>1715</b>	<b>2290</b>	<b>12</b>	<b>1</b>	<b>75,0</b>