

# CURRICULUM

## Master's degree program in Aeronautical Engineering

ECTS Subject code T p AE No

- T – type of course: B for BEng, M for MEng;

- p- additional symbol for Plovdiv Branch;

- AE – specialty “Aeronautical Engineering” in Bulgarian;

- No – number of the subject;

Lectures (L), Tutorials (Tut.), Labs (Lab.), Auditorium Total (AT), Self-Study (SS), Exam (E),

Continuous Assessment (CA), Semester Project (SP), Semester Assignment (course work) (SA).

№	Code	SUBJECT	Semester Load						Assesment				ECTS credits
			L	Tut.	Lab.	AT	SS	Total	E	CA	SP	SA	
<b>SEMESTER I</b>													
1	<b>MpAE01</b>	Research methods in engineering	30	0	30	<b>60</b>	60	<b>120</b>		1			<b>4</b>
2	<b>MpAE02</b>	Aeromechanics	45	0	15	<b>60</b>	90	<b>150</b>		1			<b>5</b>
3	<b>MpAE03</b>	System engineering in aviation	45	0	15	<b>60</b>	90	<b>150</b>	1				<b>5</b>
4	<b>MpAE04</b>	Optional Subject – List № 1	45	0	15	<b>60</b>	90	<b>150</b>	1			1	<b>5</b>
5	<b>MpAE05</b>	Optional Subject – List № 2	45	0	15	<b>60</b>	90	<b>150</b>		1			<b>5</b>
6	<b>MpAE06</b>	Optional Subject – List № 3	30	0	30	<b>60</b>	60	<b>120</b>					<b>4</b>
7	<b>MpAE07</b>	Semester project on optional subject					60	<b>60</b>			1		<b>2</b>
<b>Total</b>			<b>240</b>	<b>0</b>	<b>120</b>	<b>360</b>	<b>540</b>	<b>900</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>30</b>
<b>SEMESTER II</b>													
8	<b>MpAE08</b>	Aircraft reliability	45	0	15	<b>60</b>	60	<b>120</b>	1				<b>4</b>
9	<b>MpAE09</b>	Airports	30	0	15	<b>45</b>	45	<b>90</b>		1			<b>3</b>
10	<b>MpAE10</b>	Aviation technologies	45	0	15	<b>60</b>	60	<b>120</b>		1			<b>4</b>
11	<b>MpAE11</b>	Optional Subject – List № 4	45	0	15	<b>60</b>	60	<b>120</b>	1			1	<b>4</b>
12	<b>MpAE12</b>	Diploma project	0	0	0	<b>0</b>	450	<b>450</b>	Defense of diploma thesis			<b>15</b>	
<b>Total</b>			<b>165</b>	<b>0</b>	<b>60</b>	<b>225</b>	<b>675</b>	<b>900</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>30</b>

### LIST OF THE OPTIONAL SUBJECTS

<b>List 1</b>		<b>ECTS = 5</b>
1	Aircraft Power Plants	<b>MpAE04.1</b>
2	Aircraft Structural Mechanics	<b>MpAE04.2</b>
<b>List 2</b>		<b>ECTS = 5</b>
1	Aircraft Computer Systems	<b>MpAE05.1</b>
2	Aircraft Design	<b>MpAE05.2</b>
<b>List 3</b>		<b>ECTS = 4</b>
1	Flight Management in Civil Aviation	<b>MpAE06.1</b>
2	Human Factor	<b>MpAE06.2</b>
<b>List 4</b>		<b>ECTS = 4</b>
1	Advanced Aircraft Structures	<b>MpAE11.1</b>
2	Aircraft Automatic Flight Control Systems	<b>MpAE11.2</b>

### LIST OF THE FACULTATIVE SUBJECTS

№	Code	SUBJECT	Semester Load						Assesment				ECTS credits	
			L	Tut.	Lab.	AT	SS	Total	E	CA	SP	SA		
<b>SEMESTER I</b>														
1	<b>FaMpAE01</b>	Aviation Law	30	30	0	<b>60</b>	60	<b>120</b>		1				<b>4</b>
<b>SEMESTER II</b>														
1	<b>FaMpAE02</b>	Aerospace technologies	30	30	0	<b>60</b>	60	<b>120</b>		1				<b>4</b>