

**TECHNICAL UNIVERSITY OF GABROVO**  
**FACULTY OF ECONOMICS**

Endorsed with Academic Council resolution  
Record № 6/12.03.2019



## CURRICULUM

Master degree course: **INDUSTRIAL MANAGEMENT – INNOVATION AND BUSINESS EXPANSION (IN ENGLISH)**

For students with diplomas in the professional field 5.13 General Engineering – 180 credits

Higher education area: **TECHNICAL SCIENCES**

Professional trend: **GENERAL ENGINEERING /code 5.13/**

Professional qualification: **MASTER IN INDUSTRIAL MANAGEMENT - INNOVATION AND BUSINESS EXPANSION**

Form of training: **FULL-TIME**

Duration of training: **4 /FOUR/ SEMESTERS**

№	Subject Taught	Form of assessment		Course work	Workload in number of academic hours				Weekly distribution (L+SC+LC)	Type of subject	ECTS credits
		E	CA		Lectures (L)	Sem. Classes (SC)	Lab. Classes (LC)	Total			
1	2	3	4	5	6	7	8	9	10	11	12
<b>First semester</b>											
1	Strategic Management	E		CW	30	30	0	60	2+2+0	CS	5/2,4
2	Industrial and Logistics Management	E		CW	30	15	0	45	2+1+0	CS	5/1,8
3	Controlling	E			30	30	0	60	2+2+0	CS	5/2,4
4	Financial Management	E			30	30	0	60	2+2+0	CS	5/2,4
5	Computer technologies in management	E			30	0	30	60	2+0+2	CS	5/2,4
6.1	Business English		CA		0	45	0	45	0+3+0	ES	5/1,8
6.2	Business Bulgarian										
<b>Total 1<sup>st</sup> semester</b>		<b>5E</b>	<b>1CA</b>	<b>2CW</b>	<b>150</b>	<b>150</b>	<b>30</b>	<b>330</b>	<b>10+10+2=22</b>		<b>30/13,2</b>

1	2	3	4	5	6	7	8	9	10	11	12
	<b>Second semester</b>										
7	Materials and Material sciences	E		CW	30	0	30	60	2+0+2	CS	5/2,4
8	Machine engineering	E			30	0	30	60	2+0+2	CS	5/2,4
9	Electrical machinery and apparatus	E			30	0	30	60	2+0+2	CS	4/2,4
10	CAM and CNC manufacturing systems	E			30	0	30	60	2+0+2	CS	4/2,4
11	Engineering	E			30	15	0	45	2+1+0	CS	5/1,8
12.1	Business English		CA		0	45	0	45	0+3+0	ES	5/1,8
12.2	Business Bulgarian										
13	Industrial Engineering project		CA							CS	2/0
	<i>Developing and implementing innovative solutions- practice</i>	<i>(E)</i>						<i>(60)</i>		<i>(CS)</i>	<i>(2/0)</i>
	<b>Total 2<sup>nd</sup> semester</b>	<b>5E</b>	<b>2CA</b>	<b>1CW</b>	<b>150</b>	<b>60</b>	<b>120</b>	<b>330</b>	<b>10+4+8=22</b>		<b>30/13,2</b>
	<b>Third semester</b>										
14	Project management	E			30	30	0	60	2+2+0	CS	5/2,4
15	Marketing research and analysis	E		CW	30	30	0	60	2+2+0	CS	5/2,4
16.1	Automation of the engineering labor	E			30	0	15	45	2+0+1	ES	5/1,8
16.2	Optimization of objects in machine building										
17.1	Logistics		CA	CW	30	15	0	45	2+1+0	ES	4/1,8
17.2	Planning and forecasting										
17.3	Process Cost Calculation and Target Costing										
18.1	National and International accounting	E			30	15	0	45	2+1+0	ES	4/1,8
18.2	Annual financial statement										
19.1	Information systems in management	E			30	0	30	60	2+0+2	ES	5/2,4
19.2	Engineering databases										
20	Developing and implementing innovative solutions – project		CA							CS	2/0
	<i>Business English</i>		<i>(CA)</i>		<i>(0)</i>	<i>(45)</i>	<i>(0)</i>	<i>(45)</i>	<i>(0+3+0)</i>	<i>(OS)</i>	<i>(5/1,8)</i>
	<i>Business Bulgarian</i>										
	<b>Total 3<sup>rd</sup> semester</b>	<b>5E</b>	<b>2CA</b>	<b>2CW</b>	<b>180</b>	<b>90</b>	<b>45</b>	<b>315</b>	<b>12+6+3=21</b>		<b>30/12,6</b>
	<b>Fourth semester</b>										
21	International Management	E			24	12	0	36	2+1+0	CS	3/1,4
22	Risk management	E		CW	24	12	0	36	2+1+0	CS	3/1,4

1	2	3	4	5	6	7	8	9	10	11	12
23	Business expansion	E		CW	30	15	0	45	2+1+0	CS	4/1,8
24	Innovation management	E			24	12	0	36	2+1+0	CS	3/1,4
	<i>Intercultural Competence</i>	(E)			(30)	(15)	(0)	(45)	(2+1+0)	(OS)	(4/1,8)
25	Pre-graduation apprenticeship	E						(60)		CS	2/0
	Master Thesis										15/0
	<b>Total 4<sup>th</sup> semester</b>	<b>5E</b>		<b>2CW</b>	<b>102</b>	<b>51</b>	<b>0</b>	<b>153</b>	<b>8+4+0=12</b>		<b>30/6,0</b>
	<b>Total for the degree course</b>	<b>20E</b>	<b>5CA</b>	<b>7CW</b>	<b>582</b>	<b>351</b>	<b>195</b>	<b>1128</b>			<b>120/45,0</b>


**ABBREVIATIONS USED:**

CS - Compulsory subject  
 ES - Elective subject  
 OS - Optional subjects  
 CW - Course work  
 E – exam  
 CA – Current assessment  
 L - Lectures  
 SC - Seminar Classes  
 LC - Laboratory Classes

SUBJECTS		WORKLOAD		ECTS credits
TYPE	NUMBER	HOURS	%	NUMBER
CS	19	858	76,06	75
ES	6	270	23,94	28
OS	(2)	(90)		(9)
Master thesis				15
Practice	1	60		2
<b>TOTAL</b>	<b>25</b>	<b>1128</b>	<b>100</b>	<b>120</b>

The curriculum is endorsed with Department Council resolution, Department of Management, Record № 1/28.01.2019 and Faculty Council resolution, Faculty of Economics, Record № 1/29.01.2019.

Department Chair:   
 /Assoc. Prof. A. Nikolova/

Dean:   
 /Assoc. Prof. M. Koleva/