

## CURRICULUM

### 2<sup>nd</sup> Year of study

No	SUBJECTS	Subject cod	3rd Semester (14 weeks)						4th Semester (14 weeks)					
			C	S	L/P	PI	Examination Form	ECTS	C	S	L/P	PI	Examination Form	ECTS
<b>A. COMPULSORY SUBJECTS (O)</b>														
1	Material Strength	MNTODO301	2		2	2	E	4						
2	Electrotechnics	MNTFO302	2		2	2	E	4						
3	Means of Communication	MNTODO303	2		2	2	E	4						
4	Geology	MNTODO304	2		2	2	C	4						
5	Geodesic Astronomy	MNTFO305	2		2	2	C	5						
6	Mineralogy and Petrology	MNTODO306	2		2	2	E	5						
7	Foreign Languages III	MNTOCO307		2		2	C	4						
8	<b>Physical Education III</b>	MNTOCO308		1			A/R	1						
9	Surveying	MNTODO409							2		2	2	E	5
10	Theory and Practice of Urbanism	MNTODO410							2		1	2	C	3
11	Prospecting and Exploration	MNTODO411							3		2	2	E	4
12	Rock Mechanics	MNTODO412							2		2	2	E	4
13	Mathematical Cartography	MNTODO413							2		2	2	E	4
14	Bases of Ground Measurements	MNTODO414							2		1	2	C	3
15	<b>Physical Education IV</b>	MNTOCO415								1			A/R	1
18	Training	MNTODO418									120		C	4
<b>TOTAL O:</b>			<b>12</b>	<b>3</b>	<b>12</b>	<b>14</b>	<b>4E+4C</b>	<b>30</b>	<b>13</b>	<b>1</b>	<b>10</b>	<b>12</b>	<b>4E+4C</b>	<b>27</b>
			<b>27</b>						<b>24</b>					
<b>B. OPTIONAL SUBJECTS (choice) (A)</b>														

16	Underground Hydraulics	MNTODA416							2		1	2	E	3
17	Fluid Mechanics	MNTODA417												
<b>TOTAL A:</b>									<b>2</b>		<b>1</b>			
<b>TOTAL O + A:</b>			<b>12</b>	<b>3</b>	<b>12</b>	<b>14</b>	<b>4E+4C</b>	<b>30</b>	<b>15</b>	<b>1</b>	<b>11</b>	<b>14</b>	<b>5E+4C</b>	<b>30</b>
			<b>27</b>						<b>27</b>					

Physical Education - credits over total of 60

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## CURRICULUM

### 3<sup>rd</sup> Year of study

No	SUBJECTS	Subject cod	5th Semester (14 weeks)						6th Semester (14 weeks)					
			C	S	L/P	PI	Examination Form	ECTS	C	S	L/P	PI	Examination Form	ECTS
<b>A. COMPULSORY SUBJECTS (O)</b>														
1	Underground Mining Constructions	MNTODO501	2		2	2	E	5						
2	Geodesic Tools and Measurement Methods	MNTOSO502	3		2	2	C	5						
3	Mining Surveying	MNTOSO503	3		3	3	E	6			2	2	C	2
4	Mining Technologies I	MNTODO504	2		1	2	E	4						
5	Theory of Measurement Errors	MNTOSO505	3		2	3	E	6						
6	Mining Technologies II	MNTODO606							2		1	2	C	3
7	Geodesy I	MNTOSO607							2		2	2	E	5
8	Computer Graphics	MNTOSO608							2		3	3	E	5
9	Photogrammetry and Teledetection	MNTOSO609							3		2	3	E	3
10	Engineering Surveying I	MNTOSO610							2		2	2	E	5
15	Speciality Training	MNTOSO615									120		C	4
<b>TOTAL O:</b>			<b>13</b>		<b>10</b>	<b>12</b>	<b>4E+1C</b>	<b>26</b>	<b>11</b>		<b>12</b>	<b>12</b>	<b>4E+3C</b>	<b>27</b>
			<b>23</b>						<b>23</b>					
<b>B. OPTIONAL SUBJECTS (choice) (A)</b>														
11	Drawing and drafting maps	MNTODO511												
12	Computer-Assisted Graphics for Surveying and Cadastre	MNTODO512	1		2	2	C	4						
13	Deposit Geometry	MNTOSO613							1		2	2	C	3
14	Topographical Appropriate Evidence	MNTOSO614												
<b>TOTAL A:</b>			<b>1</b>		<b>2</b>	<b>2</b>	<b>1C</b>	<b>4</b>	<b>1</b>		<b>2</b>	<b>2</b>	<b>1C</b>	<b>3</b>

			3						3					
TOTAL O + A:			14		12	14	4E+2C	30	12		14	14	4E+4C	30
			26		26									
<b>C. FACULTATIVE SUBJECTS (FREE CHOSEN) (L)</b>														
16	Economic Assessment of Projects in Constructions	MNTODL516	2	1			C	3						
17	Seismic Engineering	MNTODL517	2		1		E	3						
18	Foundations	MNTODL618							2		1		E	3
19	Hidrology and hidrogeology	MNTODL619							2		2		C	4

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## CURRICULUM

### 4<sup>th</sup> Year of Study

No	SUBJECTS	Subject cod	7th Semester (14 weeks)						8th Semester (10 + 4 weeks)					
			C	S	L/P	PI	Examination Form	ECTS	C	S	L/P	PI	Examination Form	ECTS
<b>A. COMPULSORY SUBJECTS (O)</b>														
1	Geodesy II	MNTOSO701	2		2+2P	3	E	6						
2	Engineering Surveying II	MNTOSO702	2		2+2P	3	E	6						
3	Geographical Information Systems GIS	MNTOSO703	2		2	2	E	5						
4	Cadastre I	MNTOSO704	2		2	2	E	5						
5	The Automation of Survey - Geodesic Operations	MNTOSO805	2		2	2	C	4						
6	Satellite Geodesy	MNTOSO806							2		2	2	E	3
7	Cadastre II	MNTOSO807							2		2P	2	E	3
8	Area Management and Systematization	MNTOSO808							2		1	2	E	3
9	Area and Construction Control	MNTOSO809							2		2	2	E	3
10	Cadaster Legislation	MNTOSO810							2	1		2	C	2
11	Immobile Assets Evaluation	MNTOSO811							2		2	2	E	3
16	Research internship for the elaboration of the graduation paper	MNTODO816									92		C	5
17	Elaboration of Graduation Projects	MNTODO817									2		C	5
<b>TOTAL O:</b>			<b>10</b>	<b>0</b>	<b>14</b>	<b>12</b>	<b>4E+1C</b>	<b>26</b>	<b>12</b>	<b>1</b>	<b>9</b>	<b>12</b>	<b>5E+2C</b>	<b>27</b>
			<b>24</b>						<b>22</b>					
<b>B. OPTIONAL SUBJECTS (choice) (A)</b>														
12	Mining Sites and Mine Yard	MNTODA712												
13	Civile Constructions	MNTODA713	2		1	2	C	4						
14	Human Resources Management	MNTODA814							2	1		2	C	3

15	Psychosociology	MNTODA815													
<b>TOTAL A:</b>			2		1		2	1C	4	2	1		2	1C	3
			3								3				
<b>TOTAL O + A:</b>			12		14		14	4E+2C	30	14	2	10	14	5E+3C	30
			27								25				
<b>C. FACULTATIVE SUBJECTS (FREE CHOSEN) (L)</b>															
18	Constructions Safety	MNTODL718	2		1			C	3						
19	Architectural Elements	MNTODL719	2		1			C	3						
20	Tunnels	MNTODL720	2		2			C	4						
21	Hydrotechnical Management and Constructions	MNTODL821								2		2		E	5

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