

Field of study: **Engineering and Management**
Programme of study: **Quality and Competitiveness Engineering and Management (in English)**

Form of education: **with frequency**
Length of study: **2 years**

Fundamental domain of study (DFI): **Engineering Sciences**
Branch of science (RSI): **Mechanical Engineering, Mecatronics, Industrial Engineering and Management**
Domain of study of master (DSU_M): **Engineering and Management**

Cod DFI	Cod RSI	Cod DSU_M	level	c1c2c3	a1a2
20	70	10	M	353	20

CURRICULUM
Academic year 2020 - 2021
1st YEAR

SEMESTER 1											SEMESTER 2																													
1	Strategic Management										Cost of Quality and Economic Analysis																													
	M353.20.01.S1	5	E	28	0	0	28		DS	56	M353.20.02.A1	5	E	28	0	0	14		DA	35																				
2	Advanced Statistics										Six Sigma for Process Improvement																													
	M353.20.01.A2	5	D	14	0	28	0		DA	42	M353.20.02.A2	6	E	28	0	0	28		DA	56																				
3	Methods and Tools for Quality Engineering										Process Management and Leadership																													
	M353.20.01.A3	5	E	28	14	0	0		DA	42	M353.20.02.S3	4	E	28	0	14	0		DS	35																				
4	Optional discipline 1										Optional discipline 2																													
	M353.20.01.A4-ij	5	E	28	0	0	28		DA	56	M353.20.02.A4-ij	6	D	28	0	28	0		DA	49																				
5	Professional Practice 1										Etics and academic integrity																													
	M353.20.01.S5	10	C						168	DS	M353.20.02.C5	2	D	14	7	0	0		DC	21																				
6											Professional Practice 2																													
											M353.20.02.S6	7	C						147	DS																				
7																																								
total / semester	VAi: 196										VPI: 196										VAi: 217										VPI: 196									
	VA (VAi+VAp): 364										VCA (VA+VPI): 560										VA (VAi+VAp): 364										VCA (VA+VPI): 560									
	credits: 30										evaluations: 3E, 1D, 1C										credits: 30										evaluations: 3E, 2D, 1C									
total / week	VAi: 14										VPI: 14										VAi: 16										VPI: 14									
	VA (VAi+VAp): 26										VCA (VA+VPI): 40										VA (VAi+VAp): 26										VCA (VA+VPI): 40									
	distribution: 7 1 2 4 12										(c, s, l, p, VAp)										distribution: 9 1 3 3 11										(c, s, l, p, VAp)									

Academic year 2020 - 2021
2nd YEAR

SEMESTER 3											SEMESTER 4																													
1	Total Productive Maintenance										Professional practice for preparation of dissertation thesis																													
	M353.20.03.S1	6	E	28	0	0	28		DS	56	M353.20.04.S1	10	C						168	DS																				
2	Project Management										Preparation of dissertation thesis																													
	M353.20.03.A2	6	E	28	0	0	28		DA	56	M353.20.04.S2	10	D						196	DS																				
3	Competitiveness and Risk Management										Defending of dissertation thesis																													
	M353.20.03.A3	5	D	14	0	28	0		DA	42	M353.20.04.S3	10	E							DS																				
4	Optional discipline 3																																							
	M353.20.03.A4-ij	5	E	28	0	14	0		DA	42																														
5	Professional Practice 3																																							
	M353.20.03.S5	8	C						168	DS																														
6																																								
7																																								
total / semester	VAi: 196										VPI: 196										VAi: 0										VPI: 0									
	VA (VAi+VAp): 364										VCA (VA+VPI): 560										VA (VAi+VAp): 364										VCA (VA+VPI): 364									
	credits: 30										evaluations: 3E, 1D, 1C										credits: 30										evaluations: 1E, 1D, 1C									
total / week	VAi: 14										VPI: 14										VAi: 0										VPI: 0									
	VA (VAi+VAp): 26										VCA (VA+VPI): 40										VA (VAi+VAp): 26										VCA (VA+VPI): 26									
	distribution: 7 0 3 4 12										(c, s, l, p, VAp)										distribution: 0 0 0 0 26										(c, s, l, p, VAp)									

Competences:

- C1. Knowledge and correct and appropriate application of the theoretical and practical notions, initial and advanced, specific to the domain and specialization.
- C2. Use of statistical calculation and tools specific to quality and competitiveness to analyze, process and interpret information in engineering and management systems.
- C3. Solve engineering and managerial problems that are specific to quality and competitiveness in a creative, efficient, and effective way.
- C4. Develop analyzes to improve projects, processes, engineering and management systems.
- C5. Determine and evaluate the critical success factors of competitiveness indicators for organizations.
- CT1. Develop analytical, synthetic, comparative and critical thinking, adaptability and communication ability in various situations and conditions.
- CT2. Identify roles and responsibilities in an interdisciplinary team and apply team-building and collaborative techniques within the team, demonstrate the spirit of initiative, of innovative capabilities in physical and virtual environments.
- CT3. Identify opportunities for continuous training and efficient use, for personal and professional development, of information and training sources, both in Romanian and in an international language.

RECTOR,
Conf.univ.dr.ing.Florin DRAGAN

DECAN,
Prof.univ.ing.dr.ec. Marian MOCAN

OPTIONAL COURSES NAMES
Academic year 2020 - 2021
1st YEAR

SEMESTER 1											SEMESTER 2										
01	Optional discipline 1.1. Lean Manufacturing*										Optional discipline 2.1. Occupational Health and Safety*										
	M353.20.01.A4-01	5	E	28	0	28	0		DA	56	M353.20.02.A4-01	6	D	28	0	28	0		DA	49	
02	Optional discipline 1.2. Innovation Engineering and Management										Optional discipline 2.2. Ergonomics and Stress Management										
	M353.20.01.A4-02	5	E	28	0	0	28		DA	56	M353.20.02.A4-02	6	D	28	0	28	0		DA	49	
03																					
04																					
05																					
06																					

OPTIONAL COURSES NAMES
Academic year 2020 - 2021
2nd YEAR

SEMESTER 3											SEMESTER 4											
01	Optional discipline 3.1 Supply Chain Management*																					
	M353.20.03.A4-01	5	E	28	0	14	0		DA	42												
02	Optional discipline 3.2 Transportation and Logistics Management																					
	M353.20.03.A4-02	5	E	28	0	14	0		DA	42												
03																						
04																						
05																						
06																						

Legenda

Title of discipline										
Code	nc	FE	c	s	l	p	VAp	CF	VPI	

Code = code of discipline
nc = no. of the subject transferable credits
FE = forma de evaluare
FE ∈ {E, D, C}
E=exam
D=distributive assessment
C=colloquy
c=no. of course hours/semester
s=no. of seminar hours
l=no. of laboratory hours
p=no. of project hours
VAp = no. of hours needed for partially assisted activities

(*) - optional courses names activated during the academic year 2020 / 2021

Example										
Advanced measuring technologies										
M170.17.01.V1	8	E	28	0	28	0	49	DCAV	50	

CF=the category the discipline belongs to
CF={DA, DCAV, DS, DC}
DA - thoroughgoing study discipline
DCAV - advanced knowledge discipline
DS - synthesis discipline
DC - complementary discipline
VPI=no. of unattended hours during a 14 weeks semester plus 4 weeks of examination session
VAI- no. of hours needed for entirely assisted activities=c+s+l+p
VA - no. of hours needed for entirely assisted activities and partially assisted activities=VAi+Vap
VCA - cumulated no. of hours for all activities= VA+VPI

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