Politehnica University of Timisoara
Faculty:

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
20	70	10

level	c1c2c3	a1a2
M	353	19

CURRICULUM
Academic year 2019 - 2020
1st YEAR

	SEMESTER 1										SEMESTER 2									
1	Strategic Management										Cost of Quality and Economic Analysis									
	M353.19.01.S1	5	E	28	0	0	28		DS	56	M353.19.02.A1	5	E	28	0	0	14		DA	35
2	Advanced Statistics										Six Sigma for Process Improvement									
	M353.19.01.A2	5	D	14	0	28	0		DA	42	M353.19.02.A2	5	E	28	0	0	28		DA	56
3	Methods and Tools for Quality Engineering										Process Management and Leadership									
	M353.19.01.A3	5	E	28	14	0	0		DA	42	M353.19.02.S3	4	E	28	0	14	0		DS	35
4	Optional discipline 1										Optional discipline 2									
	M353.19.01.A4-ij	5	E	28	0	0	28		DA	56	M353.19.02.A4-ij	5	D	28	0	28	0		DA	49
5	Profesional Practice 1										Etics and academic integrity									
	M353.19.01.S5	10	C					168	DS		M353.19.02.C5	4	D	14	7	0	0		DC	21
6											Profesional Practice 2									
											M353.19.02.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)	

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. Develope analyzes to improve projects, processes, engineering and management systems.
C5. Determine and evaluate the critical success factors of competitiveness indicators for organizations.
CT1. Develope 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,
Prof.univ.dr.ing.Viorel-Aurel ŞERBAN

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

OPTIONAL COURSES NAMES
Academic year 2019 - 2020
1st YEAR

	SEMESTER 1										SEMESTER 2									
01	**Optional discipline 1.1. Lean Manufacturing (*)**										**Optional discipline 2.1. Occupational Health and Safety (*)**									
	M353.19.01.A4-01	5	E	28	0	0	28		DA	56	M353.19.02.A4-01	5	D	28	0	28	0		DA	49
02	Optional discipline 1.2. Innovation Engineering and Management										Optional discipline 2 .2. Ergonomics and Stress Management									
	M353.19.01.A4-02	5	E	28	0	0	28		DA	56	M353.19.02.A4-02	5	D	28	0	28	0		DA	49
03																				
04																				
05																				
06																				

Legenda

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

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

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

CF=the cathegory 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

(*) - optional courses names activated during the academic year 2019 / 2020

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