

FACULTY OF ENGINEERING STUDY COURSE DESCRIPTION

Course Title:	Organization of production and services							
Course code (LAIS):	The course will be registered in the study administration system after accreditation							
Study programme:	Mechatronics							
	□ 1st level professional higher education							
	Professional Bachelor							
Level of Study programme:	Professional Master							
		Academi	e Master					
		PhD leve	1					
	Compulsory course (Part A)							
Type of Study programme:	 Professional specialization courses (Part B. compulsory) 							
	□ Professional specialization optional courses (Part B, optional)							
		□ Elective courses (Part C)						
		`redits	ECTS	Academic	Contact hours	Independent		
Course Workload:	hours hours work ho							
		2	3	80	32	48		
	Alvis Sokolovs							
Course Author/ Tutor:	Lecturer, Dr.sc.ing.							
	<u>e-mail</u> : alvis.sokolovs@va.lv							
	Consultation: according to the schedule for each semester							
Study Form:	Full time studies							
Study year, semester:	3 rd y	ear 6 th sem	ester					
Language:	Latv	ian, Englis	h					
Prerequisites for the Course:	-							
Course Summary:	the use of various tools for production and service planning. Within the framework of each lecture, the following individual work assignments are defined - literature analysis, internet resource exploration and analysis, video content, amound and necessary materials (literature, internet resources, video materials) for completion of each lecture.							
Assessment:	Exa	n						
	Practical works must be prepared and delivered within the time set by the lecturer.							
	100% attend seminars and workshops (missed classes can be completed individually).							
	Positive assessment is required for all tests.							
Requirements for Credits:								
	The	final mark	mark of the course consists of					
	20% for individual work seminars and workshops							
	Eva	n 80%	iuur work sen	initians and worksho	ps,			
	Students must shide by the condemic and research othics. Videome University of							
	Sciences Ethics Regulations, incl.:							
	 study papers must be independently developed; 							
	 the study work should reference all statements, ideas and data used that have been authored by someone else; 							
Abiding by the Academic	 appropriate data acquisition methods should be used in the acquisition of data, the research ethics must be respected, empirical data must be collected independently. 							
Ethics	and cannot be distorted or falsified;							
	- the examination must be carried out by the student independently, without the use of							
	supporting materials and/or consultations with other students, unless the lecturer states otherwise.							
	In the event of non-compliance with the academic and research ethics, punishment is imposed in accordance with the ViA Ethics Regulations and the study course must be re-							
Looming Outcomes the	take	n, unless th	e punishment	t is exmatriculation	The evolution met	hads and critaria		
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evaluation methods and		ductica	aaaaa 11	of onconiti	Dreatical 1- 1. 1	idual monte test		
cineria	Pro	auction pro	cesses, levels	or organization,	Fractical Work, indiv	iuuai work, test.		



	tools for process organization					
	LEAN principles, LEAN tools for production management	Practical work, individual work, test.				
	Production modeling	Practical work, individual work, test.				
	Skills					
	Use of at least 5 LEAN tools	Practical work, individual work, test.				
	Planning and organization of production processes	Practical work, individual work, test.				
	Competency					
	Planning and organization of operational	Practical work, individual work, test.				
	work.					
	Modeling of production processes	Practical work, individual work, test.				
Course Compulsory	1. J. Vārna. Ražošanas organizēšana. Apgāds "Valters un Rapa", 2004.g.					
	2. Rūrāne M. Uzņēmējdarbības pamati. R.: Turības mācību centrs, 1997.					
	5. Andra Zvirbule-Berzina. Planosana un razosanas procesa organizeŝanas					
interature.	4 M Schenk S Wirth F Muller Factory planning manual Situation-driven production					
	facitlity planning. Springer, 2010					
Course additional literature:	1. William J. Stevenson. Production / Operations Management, 6. Edition - Boston:					
	Irwin Mcgraw - Hill 1999.					
	2. Jay Heizer/Barry Render.Principles of Operations Management New Jersey:					
	Prentice Hall 2000.					
	3. C. Karrer, Engineering Production Control Strategies, A guide to Tailor Strategies that					
Course confirmation data	unite the Merits of Push and Pull, Springer, 2012					
Data of common description	08.12.2022					
Date of course description						
update:						

Study Course Plan:

		Academic hours		Study Form/
Date	Theme	Contact hours	Independent work hours	Organization of independent work of students and task description
The date is specified before the implementation of the course	Introduction - familiarization with the course content and procedure; definition of terms used in the course and formulation of tasks; division into groups	6	12	lecture, literature and video materials
	Analysis of production levels and processes	6	12	lecture, literature analysis; group work
	Modeling and planning of production processes	8	12	lecture, literature analysis, video materials; group work
	LEAN tools for production management	10	12	lecture, literature analysis, video materials; group work
	Final test	2		Exam
	Hours total:	32	48	