

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:	Med	chatronics						
Level of Study programme: Type of Study programme:	☐ 1st level professional higher education							
	\boxtimes	Profession	nal Bachelor					
		Profession	nal Master					
		Academic	Master					
	□ PhD level							
	☐ Compulsory course (Part A)							
	☐ Professional specialization courses (Part B, compulsory)							
	Professional specialization optional courses (Part B, optional)							
		Elective c	ourses (Part			T		
Course Workload:	(Credits	ECTS	Academic hours	Contact hours	Independent work hours		
Course Workload.		2	3	80	32	48		
	Alvis Sokolovs							
		turer, Dr.sc.	ing.					
Course Author/ Tutor:			colovs@va.lv	7				
	Consultation: according to the schedule for each semester							
Study Form:		time studie						
Study year, semester:		3 rd year 6 th semester						
Language:		Latvian, English						
Prerequisites for the Course:	Latvian, English							
Trorequisites for the course.	The aim of the course is to introduce LEAN principles in manufacturing, to demonstrate							
	the use of various tools for production and service planning. Within the framework of							
Course Summary:	each lecture, the following individual work assignments are defined - literature analysis,							
course summary.	internet resource exploration and analysis, video content, amound and necessary							
	materials (literature, internet resources, video materials) for completion of each lecture.							
Assessment:	Exa		tare, internet	resources, viaco i	naterials) for completion	or each rectare.		
Tissessificate.	-		must he nrer	ared and delivered	within the time set by	the lecturer		
	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:	100	dive dissessi	ione is requir	co for all costs.				
Requirements for Credits.	CD1	C* 1 1	Cal	•				
			of the course					
			uai work sen	ninars and worksho	ops,			
		m 80%	hida br. 41-	andomia 1	mah athias Mid II	nivomoity, of A1: 1		
	Students must abide by the academic and research ethics, Vidzeme University of Applied Sciences Ethics Regulations, incl.:							
	 study papers must be independently developed; 							
	 study papers must be independently developed; the study work should reference all statements, ideas and data used that have been 							
Abiding by the Academic Ethics	authored by someone else;							
	_				ald be used in the acqu			
	research ethics must be respected, empirical data must be collected independently							
	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							
					gulations and the study			
	taken, unless the punishment is exmatriculation.							
Learning Outcomes; the			arning Outco	omes	The evaluation met	hods and criteria		
evaluation methods and		owledge						
criteria	Pro	duction prod	cesses, levels	of organization,	Practical work, indiv	idual work, test.		



	1.0					
	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	D 4: 1 1 : 1: 1 1 1 4 4				
	work.	Practical work, individual work, test.				
	Modeling of production processes	Practical work, individual work, test.				
Course Compulsory literature:	 J.Vārna. Ražošanas organizēšana. Apgāds "Valters un Rapa", 2004.g. Rūrāne M. Uzņēmējdarbības pamati. R.: Turības mācību centrs, 1997. Andra Zvirbule-Bērziņa. Plānošana un ražošanas procesa organizēšanas pamatprincipi. Biznesa augstskola Turība, 2004.g. M. Schenk, S. Wirth, E. Muller, Factory planning manual, Situation-driven production 					
Course additional literature:	facitlity planning, Springer, 2010 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 unite the Merits of Push and Pull, Springer, 2012					
Course confirmation date:	08.12.2022					
Date of course description						
update:						

Study Course Plan:

		Acade	mic 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	