COURSE DESCRIPTION CARD

				-		-		chnology	
Field of study	Faculty of Engineering Man Management						Degree level and programme type	first degree/ second degree	
Specialisation/ diploma path	- Study						Study profile	-	
Course name	Proc	ductio	n and	servi	ice ma	nager	nent	Course code	IS-FM-00075S
								Course type	elective
Forms and number of	L	С	LC	Ρ	SW	FW	S	Semester	summer
hours of educational activities	15	15						No. of ECTS credits	6
Entry requirements							-		
Course objectives	Familiarize students with the major theoretical and practical issues related to the management of manufacturing and the service provision. Presentation of the structures and concepts for the management of production processes and service processes. Presentation of the basic methods and techniques used in the management of this area.								
Course content	servi Indus Class desig desig we u Plan comp sche types Assu	Servitization. The three sectors of economy: agriculture, manufacturing and services. Changing trends and their causes. The fourth industrial revolution, Industry 4.0. Production process, service process. Types of production systems. Classification of service operations. Product designing. Process of product designing, QFD (Quality Function Deployment Method) as a tool supporting designing process – discussion. Blueprints in services. What is a blueprint? Why we use blueprints in services? How to prepare it? MRP I – Material Requirements Planning system. The differences between MRP I and MRP II, the role of computer software, Master Production Schedule, BOM – bill of materials, schedules for materials. Lean Management. The origins of Lean Management, types of wastes. Tools and techniques in LM. 5S technique. Just in Time system. Assumptions of JiT as original Japanese approach, kanban system, determinations of number of kanban cards, calculation of kanban cards.							
Teaching methods	lecture, team working, discussion, Q&A, small projects								
Assessment method	written test, evaluation of homework reports							oorts	
Symbol of learning outcome		Learning outcomes Reference to the field of study							
								l understands	
L01	m							n the sphere of f services	Z_W01, Z_W10

	the importance of the latest management concepts related			
LO2	to production and services	Z_W01		
	Skills: the graduate is able to			
LO3	identify and analyze the basic problems of production	Z_U05,	Z U11	
	management and services			
LO4	apply selected methods and techniques	Z_U01, Z_U04		
	Social competence: the graduate is ready to			
LO5	demonstrate the ability of decision-making in the sphere of realization of production and service provision	Z_K03		
LO6	work in a team	Z_K02, Z_K03		
Symbol of learning outcome	Methods of assessing the learning outcomes	Type of tuition during which the outcome is assessed		
L01	evaluating the student's tests			
LO2	evaluating the student's reports and performance in classes	L, C		
LO3	evaluating the student's reports and performance in classes, evaluating the student's tests	L, C		
LO4	evaluating the student's reports	L, C		
LO5	evaluating the student's reports	С		
LO6	evaluating the student's performance in classes	С		
	Student workload (in hours)	No. of	hours	
	lecture attendance	1	5	
	participation in classes	1	5	
	preparation for classes	60 50		
Calculation	work on projects, reports, etc.			
	preparation for and participation in exams/tests	10		
	TOTAL:	150h		
	Quantitative indicators	HOURS	No. of ECTS credits	
Student worklo	oad – activities that require direct teacher participation	30h	1	
	Student workload – practical activities	125h	5	
Basic references	 Chase, R.B., Aquilano, N.J. & Jacobs, F.R., Production an Management. Manufacturing and Services, Irwin, McGraw-H 2. Bicheno, J., The New Lean Toolbox. Toward Fast, Flexibl Books. Muhlemann, A.P., Oakland, J.S., Lockyer K.G., Productio Management, Prentice Hall. 	lill. e Flow, PIC	SIE	
Supplementary references	1. Liker, J.K., The Toyota Way: 14 Management Principles Greatest Manufacturer, McGraw-Hill Professional.	from the Wo	orld's	
Organisational unit conducting the course	Department of Production Management	Date of issuing the programme		
Author of the programme	Assoc. Prof. Wiesław Urban, DSc, PhD, Eng.	February 22, 2022		
	ses I.C. – Jahoratory classes P. – project SW – specializ			

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW - field work, S – seminar