

NAME OF THE COURSE		Production Systems					
Code	PMT065	Year of study	I.				
Course teacher	Doc.dr.sc.Endri Garafulić	Credits (ECTS)	2,0				
Associate teachers		Type of instruction (number of hours)	L	S	E	F	
			15	15			
Status of the course		Percentage of application of e-learning					
COURSE DESCRIPTION							
Course objectives	Adopt basic knowledge about basic principles of the theory of the organization of production, and modern organizational structure. Students learn to design technological process in unit production in order to meet the requirements of modern market: product quality, product prices and delivery periods.						
Course enrolment requirements and entry competences required for the course	none						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After this course, students will be able to: 1. Explain the difference between classical and neoclassical theory organization. 2. Enumerate the basic theory of modern organization 3. External and internal factors that influence the choice of organizational structure 4. Explain the features of discrete and continuous flow of materials in the production process 5.Explain the strategy of introducing new products to the market 6. Analyze and evaluate approaches in production management. 7.Recommend production organizational forms 8.Construct Gantt diagram project						
Course content broken down in detail by weekly class schedule (syllabus)	Week 1 An introductory lecture. Basics of organization. Organization theories (classical, neoclassical, modern theories of organizations).Literature. Week 2 The types of organizational structures. Modern trends in design organizations: lean production, Simultaneous Engineering, fractal factory, virtual factory, business process reengineering. Week 3 Organization of business functions. Presentation of company organization Week 4 Objectives of the production process. Basic principles in production process design. Mutual relations of the basic factors of production. Problems of locations. The primary factors in the selection of macro and micro locations. Week 5 Types of material flow. The creation of spatial structures. Week 6 The basic principles of technological process designing. The order technological procedures. Week 7 Design products. The life cycle of the product. Week 8.-14. Preparation and presentation of seminars Week 15 Colloquium						
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)				
Student responsibilities	Lectures using audio-video devices. Preparation and presentation of seminars. Consultation.						
Screening student work (name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)	Class attendance	1	Research		Practical training		
	Experimental work		Report		(Other)		
	Essay		Seminar essay	1	(Other)		
	Tests		Oral exam		(Other)		
	Written exam		Project		(Other)		
Grading and evaluating student	Total scoring (100%): Exam or 1 colloquium - 50%, student seminar 50% Rating by percentage: 50% to 62% - sufficient (2) 63% to 75% - good (3) 76% to 88% - very						

work in class and at the final exam	good (4) 89% to 100% - excellent (5)		
Required literature (available in the library and via other media)	Title	Number of copies in the library	Availability via other media
	1. Dulčić Ž., P. I., R M., V. I., Proizvodni menedžment, FESB, Split, 1996.		
	2. Veža I., Projektiranje proizvodnih procesa, FESB, Split, 1994		
	3. Gačnik V., Projektiranje tehnoloskih procesa, Tehnička knjiga, Zagreb.		
Optional literature (at the time of submission of study programme proposal)	Fučko G., Interna skripta 2004		
Quality assurance methods that ensure the acquisition of exit competences	Conversation with the students. Students opinions about the quality of teaching through anonymous polls. The success of students at exam. Self-evaluation.		
Other (as the proposer wishes to add)			