Të dhëna bazike të lëndës					
University/Fakulty	Faculty of Manage	ment			
Title of subject:	Development of Pr	roduct and Manufac	turing Operations		
Level of study:	II				
Status of subject:	Elective				
Number of hours per week:	4				
ECTS value:	5				
Location:					
Teacher of the subject:	Prof. Ass. Dr.Ferit	Idrizi			
Contact:	ferit.idrizi@ushaf.net; ferit.idrizi@uni-pr.edu				
Description of subject:	This course is designed in such a way as to enable students to create basic knowledge about the relationship between technical and commercial aspects of products. Good knowledge of product specifications and their incorporation and its erlier phase of design will increases the competitive advantages in the market.				
Purpose of subject:  Student Learning Outcomes:	The objective of the course is to acquaint students with the real approach and the challenges of modern economy related to product and production. Also the defination of the product according to technical specifications and implementation of customer requirements as well as cost implications and product production. Building the idea for designing the manufacturing process based on manufacturing operations. Familiarization with decision models and application of optimization elements of the production line.  After finishing the course the student should be able:  To have knoliges about the product specific requarements  Identify commercial and technical requirements related to the product  To know how to prioritize operations in the technological process				
	To be able to design the production line based on the				
	manufacturing processes of the product				
	To design and optimize the flow and layouts.				
	To be able to calcul the line capacity and line balansing				
	ntribution in the lo				
·		ults of gain of the st			
Activity	Hours	Days/weeks	Total		
Lectures	2	/15	30		
Exercises Theoretical	2	/15	20		
/Laboratory	2	/15	30		
Practical work					
Contacts with teacher/consultations Practice in field					
Testing's, seminars	2	2	4		
Homework	2	10	20		
Time of self study of student					
(in library or at home)	2	15	30		
Final preparation for exam	1	10	10		

Time spent in evaluation				
(tests, questionnaire, final				
exam)				
Projects, presentations, etc.	2	1	2	
Total			126	
Metodologjia e mësimdhënies:	Regular teaching, lecturing with presentations in groups, exercises with tasks and examples, seminar tasks and works, tests, homework. All the methods to be dealt with will be followed by an adequate example through basic software (excel and access) and specialized in design of production lines.			
Evaluation:	Attendance: Midterm exam: Final Exam: Seminar: : Total:	10% 30 % 30 % 30 %		
Literature	10000	10070		
Basic literature:	<ul> <li>Ferit Idrizi, Zhvillimi i produkteve dhe proceseve teknologjike, skriptë, 2017</li> <li>Michell P. Groover, Automation, poduction system and computerintegrated Manufacturint, Pearson, 2016</li> <li>Cooper, R. G. 2001. Wining at new products. Persus Publishing. Cambridge,</li> </ul>			
Literatura shtesë:	<ul> <li>S. Alnil Kumar, Operation Management, 2009</li> <li>LEE J. KRAJEWSKI, LARRY P. RITZMAN, MANOJ K. MALHOTRA, Operations Management PROCESSES AND SUPPLY CHAINS, Pearson, 10th ed.</li> </ul>			
Described Learning Plan:				
Weeks	Lecture			
First week:	Objective of the syllabus; Introduction to Product Development			
Second week:	Integral product development. A classic and modern approach to the product life cycle.			
Third week:	Technical and economic handling of product development			
Fourth week:	Qualitative Product Requirements.			
Fifth week:	Product Design and Decision Making			
Sixth week:	Prototyping			
Seventh week:	Geometric Modeling and CAD-CAM Systems. Product Model.			
Eighth week:	The process of technology as the framework of the manufacturing process			
Ninth week:	Structure of the pr			
Tenth week:	Designing the working station			
Eleventh week:	Design by Process			
Twelfth week:	Block Schedule Schemes			
Thirteenth Week:	Flow Analysis and Matrix Method			
Fourteenth Week:	Line capacity analysis.			
Fifteenth week:	Balancing the line.			

Academic Policies and Rules of Conduct:

Regular attendance, keeping calm and active engagement in dialogue during lectures and exercises is mandatory.