

Course Details									
Code				Aca	demic Year		Semester		
WIN302							Spring		
Title				Т	Α	L	ECTS		
Introduction to Factory Operat	ions			2	1	1	6		
	1								
Language	German								
Level	Undergraduat e	Undergraduat e Graduate					luate	uate	
Department / Program	Industrial Engineering								
Forms of Teaching and Learning	Formal								
Course Type	Compulsory		\checkmark		Elective				
Objectives	The students are able to apply the methods they have learned and the in-depth specialist knowledge from the field of factory operations in a case-based manner. You can independently solve tasks from the practice of factory operations through systematic action.								
Content	 Technology in value creation, Division of labor and organization, Production philosophies, Work and qualifications, Functions and processes of the factory, Material flow and layout planning, Means of description, Production Planning and Control, Life cycle engineering, Structure, Basic elements and function of simulation tools, 								
Prerequisites	-								
Coordinator	Dr. Öğr. Üyesi Daı	mla Durak L	Şar						
Lecturer(s)	Prof. DrIng. Günther Seliger								
Assistant(s)	Arş. Gör. Ahmet Yükseltürk								
Work Placement	ent -								



Recommended or Required Reading								
Books / Lecture Notes	Scripts available in electronic form							
	AnyLogic Software							
Other Sources	The Big Book of Simulation Modeling. Multimethod Modeling with AnyLogic, Andrei Borshchev, 2014							
Additional Course Material								
Documents	-							
Assignments	-							
Exams	1 Midterm, 1 Final Exam							
Course Composition								
Mathematics und Basic Sciences			%					
Engineering	1	00	%					
Engineering Design			%					
Social Sciences			%					
Educational Sciences			%					
Natural Sciences			%					
Health Sciences			%					
Expert Knowledge	%							
Assessment								
Activity	Count Percentage (%)							
Midterm Exam		1	40					
Quiz								
Assignments								
Attendance								
Recitations/ Lab								
Projects								
Final Exam		60						
		100						
ECTS Points and Work Load								
Activity	Count	Duration	Work Load (Hours)					
Lectures	15		56					
Self-Study								
Assignments								
Presentation / Seminar Preparation								
Midterm Exam								



Recitations		15		112					
Laboratory									
Projects									
Final Exam		1	2	2					
			Total Work Load	168					
ECTS Points (Total Work Load / Hour) 6									
Learning Outcomes									
1	Acquiring knowledge for an analysis and evaluation of value creation processes in the factory and supply chain								
2	Acquiring knowledge for an analysis of value creation and factory organization								
3 Acquiring knowledge for planning and management tasks									
4	4 Acquiring knowledge for the use of simulation tools								
5	5								
6									
7									
8									
9									
10									
11									
12									
13	13								
14									
Weekly Cont	ent								
1	Terms of fac	tory operation							
2	Basics Introduction to Factory Operations (EFAB)								
3	Sustainable industrial value creation								
4	Product and process in the factory								
5	Resources in the factory Organization in the factory								
6	Man in the factory								
7	Cooperation and competition								
8	Technology assessment								
9	Production p	philosophies							
10	Factory planning								
11	Production control								



12	Means of description										
13	Optimization tools										
14	Exam preparation										
15											
	P1	P2	P3	P4	P5	P6	Р 7	Р 8	Р9	P10	P11
1	3	4	5	3	3	5	4	5	4	5	5
2	4	4	5	4	4	5	5	5	5	4	4
3	3	3	3	4	4	5	5	5	5	4	4
Contribution Level 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High											
https://obs.tau.edu.tr/oibs/bologna/progLearnOutcomes.aspx?lang=en&curSunit=196											
Compiled by:	illed by: Arş. Gör. Ebru Subutay										
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