	LEAN MANUFACTURING										
1	Course Title:	LEAN MANUFACTURING									
2	Course Code:	YLUS221									
3	Type of Course:	Optional									
4	Level of Course:	Short Cycle									
5	Year of Study:	2									
6	Semester:	3									
7	ECTS Credits Allocated:	3.00									
8	Theoretical (hour/week):	1.00									
9	Practice (hour/week):	2.00									
10	Laboratory (hour/week):	0									
11	Prerequisites:	None									
12	Language:	Turkish									
13	Mode of Delivery:	Face to face									
14	Course Coordinator:	Dr. Ögr. Üyesi İdil YİĞİT									
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği diğer elemanlar									
16	Contact information of the Course Coordinator:	betul@uludag.edu.tr + 90 (224) 294 20 88 Uludag University, Faculty of Engineering-Architecture, Department of Industrial, Gorukle Campus, Bursa 16059, Turkey									
17	Website:										
18	Objective of the Course:	Lean production and management, as a general meaning, aims to increase overall system performance by eliminating wastes. The entire system should be redesigned according to the definition of customer value. The aim of this course is to present methods and tools designed for these concepts									
19	Contribution of the Course to Professional Development:	This course provides students to gain skills about how to design and operate a lean production environment									
20	Learning Outcomes:										
		1	Being able to gain knowledge about the concept of Lean Thinking, and make the definition of waste.								
		2	Being able to gain the knowledge and the application of lean manufacturing techniques.								
		3	Being able to evaluate the results of the lean manufacturing implementations.								
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		5									
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		10									
21	Course Content:										
		Co	ourse Content:								
Week	k Theoretical Practice										

1	Instructor Introduction; Course Overv Lean manufacturing concepts	view								
2	Production strategies Comparison of Lean Production with Production Systems Lean Thinking, Fundamentals of Lea Thinking and Development Principles of Lean Thinking									
3	Value, Value Stream, Flow, Pull, and Perfection	l								
4	Value Stream Mapping Current State Mapping									
5	Future State Mapping									
6	Continuous Flow									
7	Production leveling, Heijunka									
8	U-shaped line Layouts and Design									
9	Pull, Just-in-Time Production System Kanban Systems, Kanban Rules, Se the Number of Kanbans		:							
10	Pull, Just-in-Time Production System Kanban Systems, Kanban Rules, Ca the number of Kanban									
11	Perfection: KAIZEN, Continuous Improvement									
	Portaction: 55 Pulas			. .		l				
Activit	es			Number	Duration (hour)	Load (hour)				
Th p pre	Reffection: TPM – Total Productive			14	2.00	28.00				
Practic	als/Labs			0	0.00	0.00				
S @12 stu	dyexathoookep Breateronences and/or Other		1	Diesign and Analy	/sis of Dean Production	54)2s049ms,				
Homew	vorks			1	10.00	10.00				
Project	6		Y	our Corporation, V	Vomacio James P. and	lo.0e s, Daniel				
Field S				0	0.00	0.00				
Midterr		NUMBE	1		5.00	5.00				
Others				0	0.00	0.00				
MindaleEn	native m	1	3	иоо	5.00	5.00				
Total W	/ork Load					90.00				
Horalew	vookklepardje330 hr	1	2	0.00		3.00				
ECTS (Credit of the Course					3.00				
Total 3				00.00		•				
	ution of Term (Year) Learning Activities s Grade	es to	5	50.00						
Contrib	ution of Final Exam to Success Grade	Э	5	50.00						
Total			1	100.00						
Measu Course	· · · · · ·	sed in the	th	Measurement and evaluation are performed according to the Rules & Regulations of Bursa Uludağ University on Undergraduate Education.						
24	ECTS / WORK LOAD TABLE									

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	0	0	2	0	0	0	0	0	4	0	0	0	0	0	0	0
ÖK2	0	0	0	2	3	3	0	0	2	0	0	0	0	0	0	0
ÖK3	0	0	0	2	3	3	0	0	3	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low		3 Medium			4 High				5 Very High				