SIX SIGMA

1	Course Title:	SIX SIGMA
2	Course Code:	IIB7003
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	3
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	No
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. ERKAN IŞIGIÇOK
15	Course Lecturers:	Prof. Dr. Erkan IŞIĞIÇOK
16	Contact information of the Course Coordinator:	E-posta : eris@uludag.edu.tr Telefon: 0 224 29 41101 Adres: Uludağ Üniversitesi, İktisadi ve İdari Bilimler Fakültesi, Ekonometri Bölümü,16059, Görükle/Bursa.
17	Website:	
18	Objective of the Course:	The objective of the course is to convey essential knowledge and skills about how to use Six Sigma for the purpose of recruitment of industrial processes and business world.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

		1	To be able to gain experience in basic statistical topics
		2	To be able to gain experience in inferential statistical
		3	To be able to recognize the concepts of Six Sigma
		4	To be able to understand the importance of customer, variation and deviation from the target in Six Sigma.
		5	To be able to see improvement in Sigma level
		6	To be able to understanding the stages of Six Sigma
		7	To be able to learning techniques used in Six Sigma stageProgramme.
		8	To be able to learning applications in different sectors
		9	
		10	

21	Course Content:	

Course Content:		
Week	Theoretical	Practice
1	Historical development of six sigma and term of beld	

2	Human resources in Six Sigma	
3	Basic statistics for Six Sigma problem fighters	
4	Variation in Six Sigma and deviation from the target	
5	Probability for Six Sigma problem fighters	
6	Probability distributions and sigma level	
7	Relationship between short-term and long-term in Six Sigma	
8	The stages of Six Sigma	
9	Defining the Project	
10	Measurement and the reliability of measurement	
11	The analysis stage and statistical techniques	
12	The Improvement stage and applications	
13	Control phase and Statistical Process Control	
14	Project examples and applications	

22	Textbooks, References and/or Other Materials:	1. Erkan IŞIĞIÇOK, Altı Sigma Kara Kuşaklar İçin Hipotez Testleri Yol Haritası, Marmara Kitabevi, Genişletilmiş 2. Baskı 2011, Bursa. 2. Prof. Dr. Erkan IŞIĞIÇOK, 100 Soruda Altı Sigma, Marmara Kitabevi, Bursa, 2011.

23 Assesment

Activites			Number		Duration (hour)	Total Work Load (hour)
Theoretical			14		2.00	28.00
Quiz	0	0.00				
Practicals/Labs			0		0.00	0.00
Self study and preperation			14		2.00	28.00
Final Exam	1	60.00				
Homeworks			0		0.00	0.00
Projects			0		0.00	0.00
Contribution of Term (Year) Learning Activities to			40.00			
Field Studies			0		0.00	0.00
Midterm exams			1		15.00	15.00
Contribution of Final Exam to Success Grade			60.00			
Others			0		0.00	0.00
Final Exams			1		20.00	20.00
Measurement and Evaluation Techniques Used in the						
Total Work Load						91.00
24 Total workload / 30 **ECTS / WORK LOAD TABLE**						3.03
ECTS Credit of the Course						3.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	5	5	4	4	3	3	3	5	4	4	4	3	0	0	0	0
ÖK2	4	5	4	4	5	3	4	3	4	4	4	4	0	0	0	0
ÖK3	3	4	5	3	4	3	3	5	3	3	4	3	0	0	0	0
ÖK4	4	4	4	4	3	4	4	4	4	4	4	4	0	0	0	0

ÖK5	5	5	3	5	4	4	4	4	4	3	5	3	0	0	0	0
ÖK6	4	5	4	4	4	4	4	3	5	4	3	5	0	0	0	0
ÖK7	5	4	5	4	3	3	5	4	3	5	3	4	0	0	0	0
ÖK8	4	4	4	3	4	4	5	5	4	4	4	3	0	0	0	0

LO: Learning Objectives   PQ: Program Qualifications

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High