



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Six Sigma Applications							
Course Code		İŞLE607		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	5	Workload	127 ( <i>Hours</i> )	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		The objective of this course is introduce the methodology, history, culture, principles, benefits and similarities of Six Sigma with other quality systems.							
Course Content		The quality concept, Quality Management Standards, Total Quality Management Concepts, Process Concepts, create Process, Workflow Diagrams, Process Improvement, Six Sigma							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	Gürsakar,N(2005) Altı Sigma Müşteri Odaklı Yönetim, Nobel Yayın Dağıtım
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Week	Weekly Detailed Course Contents	
1	Theoretical	Six Sigma Process
2	Theoretical	1.5 Sigma shift
3	Theoretical	Tasarım Altı Sigma (DFSS)
4	Theoretical	Six Sigma People (Sponsor, Champion)
5	Theoretical	Six Sigma People (Master Black Belt, Black Belt, Green Belt, Yellow Belt)
6	Theoretical	DMAIC-Defining and Measuring stages
7	Intermediate Exam	Midterm Exams
8	Intermediate Exam	Midterm Exams
9	Theoretical	DMAIC- Analysis, Development, and Control Stages
10	Theoretical	Six Sigma Success Factors
11	Theoretical	Six Sigma and Total Quality Management
12	Theoretical	Lean Six Sigma
13	Theoretical	Proficiency Index
14	Theoretical	Processes and Six Sigma
15	Theoretical	Strategic Component of Six Sigma

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	3	70
Midterm Examination	1	25	1	26
Final Examination	1	30	1	31
Total Workload (Hours)				127
[Total Workload (Hours) / 25*] = ECTS				5
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	Defining the concepts of Six Sigma
2	Expressing the need for improvement



3	Improving the process with Six Sigma
4	Making decisions based on data and facts
5	Minimizing defects

**Programme Outcomes (Business Administration Doctorate)**

1	To be able do and report scientific research and acquire skills for doing independent work
2	Have ethical sensitivity in planning and carrying out a scientific work
3	Be able to use the qualitative and quantitative research techniques appropriately in scientific work
4	Acquire team working skills to carry out disciplinary and interdisciplinary work
5	Develop competencies for preparing projects for business
6	Acquire skills for initiative, creativity and acting independent
7	Be able to adjust to new circumstances and gain problem solving skills
8	Be able to convey thoughts and suggestions supported by the qualitative and quantitative data effectively to the experts and non-experts of the area using written, verbal and non-verbal communication skills
9	Gain the necessary experience and capabilities for a productive and competent career in teaching and research
10	Be able to select and use the appropriate mathematical and statistical methods in scientific work.

**Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High**

	L1	L2	L3	L4	L5
P1	2	4	4	4	2
P2	3	4	4	4	3
P3	4	4	3	4	3
P4	4	3	3	3	3
P5	4	3	3	3	3
P6	3	3	3	3	4
P7	3	2	2	3	3
P8	3	3	3	3	3
P9	3	3	3	3	3
P10	3	3	3	3	3

