

**ISE 362 – Lean Production**  
**COURSE INTRODUCTION AND APPLICATION INFORMATION**

<b>Lesson (hour/week)</b>	3
<b>IUE Credit/ ECTS Credit</b>	3/4
<b>Prerequisite</b>	-
<b>Course Level</b>	Undergraduate / Required
<b>Course Lecturer</b>	Halil Posacı <b>Web site:</b> homes.ieu.edu.tr/hposaci <b>e-mail:</b> hposaci@quiztechnology.com <b>Office hours:</b> On request 0532 2877127, C110
<b>Course Assistant</b>	<b>Office hours:</b>
<b>Course Objective</b>	The goal of the course is to teach Lean Thinking and its fundamentals. Particularly, in the business world, Lean thinking aims to eliminate waste (Muda) in all forms in the systems for more effectiveness, productivity and profitability
<b>Course Learning Outcomes</b>	The students who succeeded in this course; <ul style="list-style-type: none"> <li>○ Will be able to apply lean philosophy for competitiveness.</li> <li>○ Will be able to map Value Stream and reduce wastes from the VS.</li> <li>○ Will gain ability for applying 5S for better work place organization.</li> <li>○ Will learn why set up time reduction is necessary for pull production.</li> <li>○ Will be able to apply A3 communication for continuous improvement.</li> </ul>
<b>Course Content</b>	Description of Lean and its components such as Hoshin Kari (Sharing the Strategies), 5S, VSM (Value Stream Mapping), OEE (Overall Equipment Effectiveness), SMED (Single Minutes Exchange of Die), Kaizen, Kanban and Pull Systems, Toyota Production System, JIT (Just in Time)

**TENTATIVE COURSE SCHEDULE**

<b>Week</b>	<b>Subjects</b>	<b>HW &amp; CW</b>	<b>Related Preparation</b>
1	Ideal Systems – Is it reachable?		Slides and referenced resources
2	Ideal Systems and Lean		Slides and referenced resources
3	Lean Terminology		Slides and referenced resources
4	Streamlining the Value Stream and Standardization		Slides and referenced resources
5	Visual Work Place and Management		Slides and referenced resources
6	Ji Do Ka – Design Quality In		Slides and referenced resources
7	Setup time reduction (SMED)		Slides and referenced resources
8	<b>Midterm Exam</b>		
9	Total P Maintenance		Slides and referenced resources
10	Visual Controls and Displays		Slides and referenced resources
11	Lean In Supportive Processes		Slides and referenced resources
12	Kaizen – A3 and Learning Organizations		Slides and referenced resources
13	Your people and A3		Slides and referenced resources
14	Review		

<b>Text Book</b>	:	Various sources were embedded within course slides. Slides are reachable over the web site of the instructor.
<b>Exams</b>	:	First exam will cover the topics in first 7 weeks and the final will cover all topics given emphasis on the later topics.
<b>Homeworks and Classworks</b>	:	Class works will be held at the last hour of the class and popup home works will be given. The best 7 of these will be included in your grade.

**EVALUATION SYSTEM**

	<b>NUMBER</b>	<b>PERCENTAGE OF GRADE</b>
Homeworks, Classworks & Project	7	35
Midterm	1	30
Final	1	35
<b>TOTAL</b>		<b>100</b>