

**DEPARTMENT of INDUSTRIAL ENGINEERING  
COURSE CATALOGUE FORM**



<b>Course Code:</b> INDE3315				<b>Course Title:</b> Performance Management			
<b>Semester</b>	<b>L + R + L</b>	<b>Credits</b>	<b>AKTS</b>	<b>Language</b>	<b>Category</b>	<b>Instructional Methods</b>	<b>Prerequisites</b>
6	3 + 0 + 0	3	5	English	Elective	Lecture	INDE2001
<b>Course Objectives</b>			To introduce the performance and efficiency / productivity philosophy and to provide a perspective on the interaction between business-system-human via real life examples				
<b>Course Content</b>			The concept of productivity and efficiency, their interaction with each other and other concepts. Key performance indicators; productivity indexes and productivity / efficiency measurement techniques. Performance improvement techniques in enterprises; design for performance.				
<b>Course Learning Outcomes</b>			Students, who pass the course satisfactorily: 1. Able to solve performance related problems in enterprises by proper measurement techniques and methods. [2] 2. Examine and analyze the factors affecting the operational efficiency. [2] 3. Analyze the operations in terms of performance and provide decision support recommendations for improvement on resource planning. [2]  <i>[Note: Numbers in brackets are indicating the related program outcomes]</i>				
<b>ISCED Category of the course</b>			52 Engineering				
<b>Textbook</b>			Productivity Management: A Practical Handbook - Joseph Prokopenko				
<b>Supplementary Material</b>			-				

**COURSE PLAN**

Week	Topics	Laboratory / Tutorial Work
1	The concept of performance; productivity, effectiveness, efficiency, productivity, and profitability	-
2	Efficiency for continuous improvement and its applications	-
3	Key performance criteria selection and data management	-
4	Performance measurement methods	-
5	Performance measurement methods	-
6	Performance measurement methods	-
7	Work analysis and workflow control for performance improvement	-
8	Efficiency and productivity	-
9	Quality dimension of performance	-
10	The relationship between performance and time management	-
11	Workspace design for performance	-
12	Workspace design for performance	-
13	The relationship between productivity and technology and the establishment of productivity culture	-
14	Recent advances on performance management and control	-

**COURSE ASSESSMENT SYSTEM**

	Activities	Contribution (%)
<b>Semester Activities</b>	<b>Semester Written Exams</b>	40
	<b>Homework</b>	-
	<b>Reports</b>	-
	<b>Labs</b>	-
	<b>Seminars</b>	-
	<b>Presentations</b>	-
	<b>Term Project</b>	15
	<b>Other (attendance, field trip etc.)</b>	10
<b>FINAL EXAM</b>		35
<b>Total</b>		100

**CONTRIBUTION of the COURSE on INDUSTRIAL ENGINEERING PROGRAM OUTCOMES**

	<b>Program Outcomes</b>	Low	High
1	Adequate knowledge in mathematics, science and subjects pertaining to Industrial Engineering; ability to use theoretical and applied knowledge in these areas in complex engineering problems.		
2	Ability to identify, formulate, and solve complex Industrial Engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.		<b>X</b>
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.		
4	Ability to devise, select, and use modern techniques and tools needed for analyzing and solving problems encountered in engineering practice; ability to employ information technologies effectively.		
5	Ability to design and conduct experiments, gather data, analyze and interpret results for investigating complex engineering problems or discipline specific research questions.		
6	Ability to work efficiently individually and in intra-disciplinary / multi-disciplinary teams.		
7	Knowledge of Turkish and English languages; ability to communicate effectively orally, inscriptive and visually by using these languages (via business methods such as reports, presentations and instructions).		
8	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.		
9	Consciousness to behave according to ethical principles and professional and ethical responsibility; knowledge on standards used in engineering practice.		
10	Knowledge about business life practices (management activities such as project, risk, change and quality etc.); awareness in entrepreneurship, innovation; knowledge about sustainable development.		
11	Knowledge about the global and social effects of engineering practices on health, environment, economics and safety, and contemporary issues of the century reflected into the field of engineering; awareness of the legal consequences of engineering solutions.		

**ECTS - WORK LOAD TABLE**

<b>COURSE ACTIVITIES</b>	<b>Quantity</b>	<b>Time (hr)</b>	<b>Work Load (hr)</b>
Lectures	14	3	42
Final Exam (Preparation included)	1	20	20
Semester Written Exams (Preparation included)	2	10	20
Out of class study time	12	2	24
Homework	-	-	-
Reports	-	-	-
Labs	-	-	-
Seminar	-	-	-
Presentations	-	-	-
Term Project	1	20	20
<b>Total Load (hr)</b>			126
<b>ECTS Credits of the course (Total Work Load / 25)</b>			5

<b>Revision / Date</b> 5/02/2020	<b>Coordinator / Prepared By</b> Çağlar Aksezer	<b>Approved By</b> Çağlar Aksezer
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