ESOGÜ Mathematics and Computer Sciences COURSE INFORMATION FORM

SEMESTER	Fall

COURSE CODE	821617001	**COURSE NAME**	Java

SEMESTER	**WEEKLY COURSE PERIOD**			**COURSE OF**			
	Theory	**Practice**	**Labratory**	**Credit**	**ECTS**	**TYPE**	**LANGUAGE**
7	3	0	0	3	5	COMPULSORY (X) ELECTIVE ( )	Turkish

COURSE CATAGORY		
Mathematics	**Computer**	**Social Science**
	X	

ASSESSMENT CRITERIA			
	Evaluation Type	**Quantity**	**%**
MID-TERM	1st Mid-Term	1	50
	2nd Mid-Term		
	Quiz		
	Homework		
	Project		
	Report		
	Others (………)		
FINAL EXAM		1	50

PREREQUIEITE(S)	None
COURSE DESCRIPTION	Object-oriented programming with java, data types and operators, control structures, loops, classes, objects, methods, packages, arrays, strings, inheritance, encapsulation, polymorphism, collections, web applications, database programming with JDBC, text and xml applications.
COURSE OBJECTIVES	The aim of the course is to introduce the concepts and techniques involved in the basic topics listed in this lecture and to develope skills in applying those concepts and techniques to the write computer program with java.
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION	Gain the ability to develop software of computer with java
COURSE OUTCOMES	Give students basic information about java and to enable them to develop software of computer.
TEXTBOOK	Tevfik Kızılören, Java ve Java teknolojileri, Kodlab yayınları, 3. baskı, 2011.
OTHER REFERENCES	Bülent Çobanoğlu, Java ile programlama ve veri yapıları, Pusula yayıncılık, 2. baskı, 2010.
TOOLS AND EQUIPMENTS REQUIRED	Personal Computers.

<table>
<tr><th colspan="2">COURSE SYLLABUS</th></tr>
<tr><th>WEEK</th><th>TOPICS</th></tr>
<tr><td>1</td><td>Object-Oriented Programming With Java</td></tr>
<tr><td>2</td><td>Data Types and Operators</td></tr>
<tr><td>3</td><td>Control Structures</td></tr>
<tr><td>4</td><td>Loops</td></tr>
<tr><td>5</td><td>Classes, Objects</td></tr>
<tr><td>6</td><td>Methods, Packages</td></tr>
<tr><td>7</td><td>Arrays</td></tr>
<tr><td>8</td><td>Midterm</td></tr>
<tr><td>9</td><td>Strings</td></tr>
<tr><td>10</td><td>Inheritance, Encapsulation, Polymorphism, Collections</td></tr>
<tr><td>11</td><td>Web Applications</td></tr>
<tr><td>12</td><td>Database Programming with JDBC</td></tr>
<tr><td>13</td><td>Text and Xml Applications</td></tr>
<tr><td>14</td><td>Applications</td></tr>
<tr><td>15,16</td><td>Final Exam</td></tr>
</table>

NO	PROGRAM OUTCOMES	3	2	1
1	The ability to apply knowledges of Mathematics - Computer,	X		
2	To have sufficient theoretical and practical knowledge of Mathematics at international level,		X	
3	The ability of describing, modelling and solving of mathematical problems at Mathematics and related subjects,		X	
4	The skill to solve and design a problem process in accordance with a defined target,		X	
5	Skills to analyze data, interpret and apply to other datum and using these data on computer,	X		
6	The skill to use the modern techniques and computational tools needed for mathematical applications,	X		
7	The skill to make team work within the discipline and interdisciplinary,		X	
8	The ability to improve oneself by following the developments on other modern, scientific and technological subjects as well as Mathematics - Computer,		X	
9	The skill to communicate orally and in written way, in a clear and concise manner by having individual work skills and ability to independently decide and analytical thinking,		X	
10	The skill to have professional and ethical responsibility,		X	
11	The skill to have consciousness for quality issues and scientific research,		X	
12	The skill to be sensitive to environmental issues related with problems and development of living area and consistent in the social relations,		X	
13	Ability to solve problems in the working life faced to find an appropriate algoritms via mathematical modeling and to write computer programs,	X		
14	The skill to developed design of software systems at different complex levels,	X		
15	The credence of necessity of life-long learning and ability to apply the formation long-life learning.		X	
1:None. **2**:Partially contribution. **3**: Completely contribution.				

Instructor(s): Assoc. Prof. Ahmet Faruk ASLAN

Signature: **Date:**