ESOGÜ Mathematics and Computer Sciences COURSE INFORMATION FORM

SEMESTER	Fall

COURSE CODE	821615009	COURSE NAME	Simulation Techniques

SEMESTER	WEEKLY COURSE PERIOD			COURSE OF			
	Theory	**Practice**	**Labratory**	**Credit**	**ECTS**	**TYPE**	**LANGUAGE**
5	3	0	0	3	5	COMPULSORY ( ) ELECTIVE (x)	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	Simulation, Types and Techniques.
COURSE OBJECTIVES	To teach the subject in the content the course.
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION	Preparing students for more advanced works in Computer Science.
COURSE OUTCOMES	To have knowledge in the content the course.
TEXTBOOK	System Modelling and Simulation , Severance F.L.
OTHER REFERENCES	Internet and other lecture notes.
TOOLS AND EQUIPMENTS REQUIRED	None.

**COURSE SYLLABUS**	

WEEK	**TOPICS**
1	Basic aspects of simulation
2	Simulation process
3	Models and systems
4	Discrete and continuous simulation modelling
5	Midterm
6	Applications of simulation
7	Applications of simulation
8	SLAM
9	Basic network elements
10	Basic network elements
11	Queuing systems
12	Control statement
13	Resource modelling
14	GATES
15,16	Final Exam

NO	PROGRAM OUTCOMES	3	2	1
1	The ability to apply knowledges of Mathematics and Computer Sciences,	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 and Computer Sciences,	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):

Signature: **Date:**