AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Simulation							
Course Code		MIS522		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	7	Workload	181 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		To learn how to develop conceptual computer simulation models in real terms, and to accurately design, analyze, and evaluate intermediate results of computer simulation applications							
Course Content		To learn how to develop conceptual computer simulation models in real terms, and to accurately design, analyze, and evaluate intermediate results of computer simulation applications							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Case Study, Project Based Study, Individual Study, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	Simulation Modeling and Arena Manuel David Rossetti

Week	Weekly Detailed Course Contents	
1	Theoretical	Excel worksheet and simulate input with @Risk basics
2	Theoretical	Input modeling
3	Theoretical	Output analysis
4	Theoretical	Output analysis
5	Theoretical	Output Analysis
6	Theoretical	Queuing network simulation
7	Theoretical	Queuing network simulation
8	Intermediate Exam	Midterm
9	Theoretical	Arena program topics, variables, stations, roots, sequential operations and sub-models
10	Theoretical	Arena program topics, variables, stations, roots, sequential operations and sub-models
11	Theoretical	Advanced input modeling
12	Theoretical	Verification and implementation
13	Theoretical	Verification and implementation
14	Theoretical	Management of simulation projects
15	Final Exam	Final

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	16	3	3	96
Individual Work	13	2	3	65
Midterm Examination	1	5	5	10
Final Examination	1	1	9	10
			Total Workload (Hours)	181
			[Total Workload (Hours) / 25*] = **ECTS**	7

**25 hour workload is accepted as 1 ECTS*

Learning Outcomes	
1	It has necessary knowledge in production, marketing, accounting, finance and human resources, numerical methods and management organization which are the basic functions of business.

2	To be able to define management informatics systems in terms of technical, organizational and managerial, understand the local, national and global dimensions.
3	Management becomes aware of the multidisciplinary area of information systems and can establish links with other disciplines.
4	Think analytically and use the skills and knowledge gained in real life problems to produce solutions.
5	It can solve problems and support decision makers in different fields by using information technologies and systems.
6	It can give technical and managerial contribution to the information projects and take responsibility.

Programme Outcomes *(Management Information Systems Master)*	
1	Be aware of the different types of ınformation technologies and systems using in business, have enough knowledge to design a suitable system
2	Analyse the needs for an information systems and have control over the processes at the analysis, design and implementation stages of the database that belongs to the system
3	Convey information about current trends and their own studies both verbally and visually ways.
4	Be able to follow current developments in modern business techniques and technologies, especially information technologies
5	Understand the interaction between his departmant and other relational departmants, if necessary make a team, take responsibility and do the works with team.
6	Know the information technologies and systems using in different types of business, if necessary take the system responsibility.
7	Be aware of the social transformation especially in their own field and social, legal and moral responsbilities belongs to other work field.
8	Develop their knowledge to the level of expertise which they learn them in license level.
9	Carry out a work which requires an expertness in their field.
10	Construct and perform an academic 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	L6
P1		5		4		
P2	5	4		5	4	4
P3		4	4	5		4
P4	5		4		4	
P5		4	5	5		3
P6	5					
P7	5	4	5	5	4	
P8		4	5	5	5	4
P9	5	4		5	5	4
P10	4	5	5	5	5	4