

# DECISION SUPPORT SYSTEMS

1	Course Title:	DECISION SUPPORT SYSTEMS
2	Course Code:	IYZ4206
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	4
6	Semester:	8
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç. Dr. MELİH ENGİN
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	Doç.Dr. Melih ENGİN melihengin@uludag.edu.tr 0224 294 26 95
17	Website:	
18	Objective of the Course:	Decision Making Process and Models Probability Theory Introduction to Decision Analysis Benefits and game theory, linear Introduction to Programming Linear Programming Applications Markov Chain Analysis Project Planning Queuing Theory Simulation Forecasting Techniques Integer Programming Goal Programming Non-Linear Programming
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	To develop decision support systems using tools and methods.
	2	Synthesizing technology used in decision support systems.
	3	Decision support systems design, development and implementation of methods for analyzing and applications
	4	To make assessment of the choice of technology used in the development of decision support systems
	5	Ability to identify and evaluate opportunities to develop decision support systems
	6	
	7	
	8	
	9	
	10	
21	Course Content:	
	<b>Course Content:</b>	
Week	Theoretical	Practice
1	An overview of the management support system	

<b>2</b>	Decision-makers, decision-making and systems	
<b>3</b>	Modeling and Decision Support	
<b>4</b>	Decision support systems-Data Management, Module Management, Interface Management	
<b>5</b>	Decision Support Systems Design	
<b>6</b>	Group decision support systems	
<b>7</b>	Corporate Decision Support Systems	
<b>8</b>	Decision support and artificial intelligence	
<b>9</b>	Artificial Intelligence and Expert Systems	
<b>10</b>	Clever factors	
<b>11</b>	Decision support systems manager	
<b>12</b>	Decision support systems manager	
<b>13</b>	Databases, data warehousing, knowledge base	
<b>14</b>	Decision support of today and tomorrow	

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT		
Midterm Exam	1	40.00		
Activites		Number	Duration (hour)	Total Work Load (hour)
Final Exam	1	60.00		
Theoretical	1	14	2.00	28.00
Practicals/Labs		14	2.00	28.00
Contribution of Term (Year) Learning Activities to Self study and preparation		40.00	0.00	0.00
Homeworks		0	0.00	0.00
Contribution of Final Exam to Success Grade		60.00	0.00	0.00
Projects		0	0.00	0.00
Field Studies		0	0.00	0.00
Measurement and Evaluation Techniques Used in the Midterm Exams		1	20.00	20.00
Others		0	0.00	0.00
Final Exams		1	20.00	20.00
Total Work Load				96.00
Total work load/ 30 hr				3.20
ECTS Credit of the Course				3.00

ÖK5	1	1	0	0	3	1	3	0	0	0	0	0	0	0	0	0
LO: Learning Objectives    PQ: Program Qualifications																
Contrib ution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			