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:	Doç.Dr. Melih ENGİN
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:	To be able to design the systems necessary for a business and to produce solutions for the needs of the course.
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	
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21	Course Content:	

Week	Theoretical	Practice

Week	Theoretical	Practice
1	An overview of the management support system	

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

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	40.00
Final Exam	1	60.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course	Relative Evaluation	

24 ECTS / WORK LOAD TABLE

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	0	0.00	0.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	20.00	20.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			116.00
Total work load/ 30 hr			3.20
ECTS Credit of the Course			3.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0
ÖK2	1	1	0	0	1	1	2	0	0	0	0	0	0	0	0	0
ÖK3	1	1	0	0	2	1	1	0	0	0	0	0	0	0	0	0
ÖK4	1	1	0	0	3	1	3	0	0	0	0	0	0	0	0	0

| ÖK5 | 1 | 1 | 0 | 0 | 3 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

LO: Learning Objectives   PQ: Program Qualifications

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High