	SYSTEM ANALYSIS		PLANNING IN AGRICULTURAL CHINERY						
1	Course Title:	SYSTEM ANALYSIS AND PLANNING IN AGRICULTURAL MACHINERY							
2	Course Code:	BSM5027							
3	Type of Course:	Optional							
4	Level of Course:	Third Cycle							
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	6.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00	0.00						
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Prof. Dr. Halil Ünal							
15	Course Lecturers:	Yok							
16	Contact information of the Course Coordinator:	Prof. Dr. Halil ÜNAL e-posta : hunal@uludag.edu.tr Telefon: 0 224 2941607 Adres: Bursa Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA							
17	Website:	, , , , , , , , , , , , , , , , , , ,							
18	Objective of the Course:	To provide theoretical and practical learning of numerical estimation methods, operations research techniques, linear programming and network analysis methods. It is the ability of students to show a systematic approach to the problems they may encounter, to think analytically, to make predictions for the future and to gain the skills of project planning and evaluation.							
19	Contribution of the Course to Professional Development:	Learn theoretically and practically operations research techniques and linear programming and network analysis methods.  Learns analytical thinking, making predictions for the future.  It is the acquisition of project planning and evaluation skills.							
20	Learning Outcomes:								
		1	Learns numerical estimation methods.						
		2	Learn theoretically and practically operations research techniques and linear programming and network analysis methods.						
		3	The student can show a systematic approach to the problems he / she may encounter.						
		4	Learns analytical thinking, making predictions for the future.						
		5	It is the acquisition of project planning and evaluation skills.						
		6							
		7							
		8							
		9							
		10							
21	Course Content:								

	Course Content:								
Week	Theoretical		Practice						
1	The system concept, basic structural elements of the system, system oper and classification of systems according their behavior.	ation							
2	Model definition, types and explanation modeling principles.	on of							
3	Explanation of working stages in systanalysis.	em							
4	Systematic approach to agricultural mechanization.								
5	Distribution charts, time series model averages, trend projections), causal estimation methods (single and multi regression) and judicial Delphi metho are included in numerical estimation	ple od, which							
6	Distribution charts, time series model averages, trend projections), causal estimation methods (single and multi regression) and judicial Delphi metho are included in numerical estimation	ple od, which							
7	Distribution charts, time series model averages, trend projections), causal estimation methods (single and multi regression) and judicial Delphi metho are included in numerical estimation	ple od, which							
8	Distribution charts, time series model averages, trend projections), causal estimation methods (single and multi regression) and judicial Delphi metho are included in numerical estimation	ple od, which							
9	Reliability and method comparisons i forecasting.	n							
10	Linear Programming Applications and Problem Formulation definition and explanation with examples,	t							
11	Linear Programming Applications and Problem Formulation definition and explanation with examples,	t							
12	Canonical and Standard Form model explanation of inequality transformati								
13	Simplex Method definition, graphical in bivariate model analysis, Simplex algorithm, artificial variables technique								
14	Some special cases encountered in a sensitivity analysis.	analysis,							
22	Textbooks, References and/or Other Materials:								
23	23 Assesment								
TERM L	TERM LEARNING ACTIVITIES NUM		WEIGHT						
Midterm Exam 0		0	0.00						
Quiz			0.00						
	Home work-project 4		40.00						
Final E	xam	1	60.00						
Contribution of Term (Year) Learning Activities to		5 es to	100.00 40.00						
Succes	s Grade								

Contribution of Final Exam to Success G	rade 60.00
Total	100.00
Measurement and Evaluation Technique Course	s Used in the Measurement and evaluation is carried out according to the principles of Bursa uludag University Graduate Education Regulation.
24 ECTS / WORK LOAD TAB	LE

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	0	0.00	0.00
Homeworks	4	32.00	128.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	3.00	3.00
Total Work Load			173.00
Total work load/ 30 hr			5.77
ECTS Credit of the Course			6.00

25		CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME  QUALIFICATIONS														
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4	4	4	5	3	4	4	4	4	4	3	5	0	0	0	0
ÖK2	4	4	5	4	3	4	4	4	3	4	4	4	0	0	0	0
ÖK3	3	4	4	4	4	4	5	5	4	3	4	4	0	0	0	0
ÖK4	4	3	3	4	4	5	5	5	4	4	4	4	0	0	0	0
ÖK5	4	4	4	4	3	4	3	4	4	4	4	3	0	0	0	0
	LO: Learning Objectives PQ: Program Qualifications															
Contrib 1 very low 2 low ution Level:			3 Medium			4 High			5 Very High							