SOIL PROCESSING MACHINERY

1	Course Title:	SOIL PROCESSING MACHINERY
2	Course Code:	TRMZ103
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	6.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. Yücel TEKİN
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları.
16	Contact information of the Course Coordinator:	2942354
17	Website:	
18	Objective of the Course:	To introduce tillage tools, to teach how and where they use.
19	Contribution of the Course to Professional Development:	Tillage is one of the main agro-technical measures that can be taken in agricultural production. Moreover, it constitutes the most important share in energy use in production. Therefore, tillage makes a fundamental contribution to professional development.
20	Learning Outcomes:	
	1	To inform about the intensity of energy usage by introducing soil tillage
	2	To introduce primary tillage machines
	3	To introduce secondary tillage machines
	4	To Teach the usage of soil tillage machines
	5	To teach the points to be considered in soil tillage
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21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Properties affecting soil tillage	General presentation of tillage equipment
2	Soil tillage techniques and general purposes of soil tillage	The methods of using hydraulic arms to be used in soil tillage with tractor
3		Demonstration of implements used in tillage systems
4	Soil tillage methods, Force and soil compaction	Soil compaction measurement in the field

5	Mouldboard ploughs	The concepts of the mouldboard ploughs will be displayed on the plow
6	Plough parts	Show plow parts
7	Draw force, power and Efficiency in plows,	Problem solving
8	Exam	Exam
9	Working technique in the field with disc plows and plows	Working with plough in the field
10	Soil rotatillers	Working with rotatiller in the field
11	Secondary tillage machines, Cultivators	Introduction of different types of cultivators
12	Harrows	Working with different types of harrows in the field
13	Lawn rollers and implement combinations	Working with different types of rollers in the field
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22	Textbooks, References and/or Other Materials:	C. CULPIN, 1992. Farm Machinery (Twelfth Edition). The University Press, Cambridge. ISBN 0-632-03417-3
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	20.00
Quiz	1	20.00
Home work-project	0	0.00
Final Exam	1	60.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Contribution of Final Exam to Success Grade	60.00		
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	3.00	42.00
Homeworks	14	3.00	42.00
Projects	1	3.00	3.00
Field Studies	14	2.00	28.00
Midterm exams	1	3.00	3.00
Others	1	1.00	1.00
Final Exams	1	5.00	5.00
Total Work Load			180.00
Total work load/ 30 hr			6.00
ECTS Credit of the Course			6.00

Measurement and Evaluation Techniques Used in the Measurement and evaluation is carried out according to Undergraduate Education Regulation.

24 ECTS / WORK LOAD TABLE

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	4	4	3	4	5	0	0	0	0	0	0	0	0	0	0	0
ÖK2	5	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0
ÖK3	3	4	5	3	3	0	0	0	0	0	0	0	0	0	0	0
ÖK4	4	4	5	5	5	0	0	0	0	0	0	0	0	0	0	0

ÖK5	3	4	5	4	5	0	0	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**