

# INTRODUCTION TO BIOSYSTEMS ENGINEERING

<b>1</b>	Course Title:	INTRODUCTION TO BIOSYSTEMS ENGINEERING	
<b>2</b>	Course Code:	BSM1510	
<b>3</b>	Type of Course:	Compulsory	
<b>4</b>	Level of Course:	First Cycle	
<b>5</b>	Year of Study:	1	
<b>6</b>	Semester:	2	
<b>7</b>	ECTS Credits Allocated:	1.00	
<b>8</b>	Theoretical (hour/week):	1.00	
<b>9</b>	Practice (hour/week):	0.00	
<b>10</b>	Laboratory (hour/week):	0	
<b>11</b>	Prerequisites:	None	
<b>12</b>	Language:	Turkish	
<b>13</b>	Mode of Delivery:	Face to face	
<b>14</b>	Course Coordinator:	Prof. Dr. Ercan Şimşek	
<b>15</b>	Course Lecturers:	Prof. Dr. Ali Osman Demir Prof. Dr. Ali Vardar Prof. Dr. Halil Ünal	
<b>16</b>	Contact information of the Course Coordinator:	Pe-posta : esimsek@uludag.edu.tr Telefon: 0 224 2941622 Adres: Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampusu, 16059, Nilüfer/BURSA	
<b>17</b>	Website:		
<b>18</b>	Objective of the Course:	To raise awareness of students about Biosystem Engineering fields of study and study subjects.	
<b>19</b>	Contribution of the Course to Professional Development:	The course contributes to the students getting the first information about the profession.	
<b>20</b>	Learning Outcomes:		
		<b>1</b>	Understanding the importance of the field and the study areas of the field and water resources department
		<b>2</b>	Understanding the importance of the study areas and study subjects of the Department of Agricultural Energy Systems
		<b>3</b>	Understanding the importance of the study areas and study subjects of the Department of Agricultural Machine Systems
		<b>4</b>	To be able to interpret the situation of the general structures and facilities in the rural area
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<b>21</b>	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
<b>1</b>	Introduction to Biosystem Engineering		

<b>2</b>	Biosystem Engineering Application Areas	
<b>3</b>	Biosystem Engineering Study Subjects	
<b>4</b>	Land and Water Resources + Agricultural Structures Lab. Introductions	
<b>5</b>	Introduction to Agricultural Energy Systems	
<b>6</b>	Energy Concept	
<b>7</b>	Classification of Energy Resources	
<b>8</b>	Agricultural Energy Systems + Agricultural Machine Systems Lab. introductions	
<b>9</b>	Introduction to Agricultural Machinery Systems	
<b>10</b>	Pre-Harvest Agricultural Mechanization	
<b>11</b>	Post-Harvest Agricultural Mechanization	
<b>12</b>	Rural Settlements and Components of Settlements and Types	
<b>13</b>	Structures and facilities required in agricultural enterprises	
<b>14</b>	Designing of Farm Buildings	
<b>22</b>	Textbooks, References and/or Other Materials:	Lecture notes shared by faculty members on UKEY.
<b>23</b>	Assesment	
<b>TERM LEARNING ACTIVITIES</b>		<b>NUMBER</b>
		<b>WEIGHT</b>
Midterm Exam	0	0.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	100.00
Total	1	100.00
Contribution of Term (Year) Learning Activities to Success Grade		0.00
Contribution of Final Exam to Success Grade		100.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Final Exam
<b>24</b>	<b>ECTS / WORK LOAD TABLE</b>	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	1.00	14.00
Practicals/Labs	0	0.00	0.00
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	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	12.00	12.00
Total Work Load			26.00
Total work load/ 30 hr			0.87
ECTS Credit of the Course			1.00

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	0	1	0	1	1	4	5	3	5	5	0	0	0	0	0	0
ÖK2	0	1	0	1	1	4	5	3	5	5	0	0	0	0	0	0
ÖK3	0	1	0	1	1	4	5	3	5	5	0	0	0	0	0	0
ÖK4	0	1	0	1	1	4	5	3	5	5	0	0	0	0	0	0
<b>LO: Learning Objectives PQ: Program Qualifications</b>																
<b>Contribution Level:</b>	<b>1 very low</b>			<b>2 low</b>			<b>3 Medium</b>			<b>4 High</b>			<b>5 Very High</b>			