METEOROLOGY										
1	Course Title:	METEOF	ROLOGY							
2	Course Code:	BSM150	3							
3	Type of Course:	Compuls	ory							
4	Level of Course:	First Cyc	ele							
5	Year of Study:	1								
6	Semester:	1								
7	ECTS Credits Allocated:	3.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:									
12	Language:	English								
13	Mode of Delivery:	Face to f	ace							
14	Course Coordinator:	Prof. Dr.	Erkan Yaslıoğlu							
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	yasli@uludag.edu.tr, 0224-2941624, U.Ü. Ziraat Fakültesi Biyosistem Mühendisliği Bölümü, Görükle, Bursa.								
17	Website:									
18	Objective of the Course:	To learn the science of meteorology and its role and importance in agricultural practices.								
19	Contribution of the Course to Professional Development:	Student can analyze and use meteorological data in agricultural applications in own future professional carrier.								
20	Learning Outcomes:									
		1	List the sub-branches of meteorology.							
		2	List and define the layers of the atmosphere.							
		3	Defines meteorological parameters such as pressure, temperature, humidity, wind speed, insolation and explains their role in agricultural practices.							
		4								
		5								
		6								
		7								
		9								
		10								
21	Course Content:									
		Co	urse Content:							
Week	Theoretical		Practice							
1	Introduction to Meteorology									
2	Agricultural Meteorology and its important production.	ortance to								
3	Climate and weather – factors affecti climate and weather.	ing								
4	Climate and weather – factors affecti climate and weather.	ng								

	Light – effect of light intensity, quality direction and duration on crop produ air temperature – factors affecting temperature.									
	Diurnal and seasonal variation in air temperature— isotherm. Heat unit de and its use – heat and cold waves – temperature in crop production.									
7	Atmospheric pressure – diurnal and variation – pressure systems of the values of variation – isobar – low, depression, anticyclone, tornado, hu and storms.	world –								
	Wind – wind systems of the world – i tropical convergence zones (ITCZ) – speed in different seasons – effect o crop production.	- wind								
	Humidity –absolute humidity – specit humidity –relative humidity – mixing dew point temperature – vapour pres deficit -diurnal variation in relative hu and its effect on crop production.	ratio, ssure								
	Evaporation – transpiration, evapotranspiration – potential evapotranspiration – definition and the importance in agricultural production									
	Agroclimatic normals, weather foreca									
Activit	types, importance – synoptic chart – es	стор		Number	Duration (hour)	Total Work Load (hour)				
Theore	ical Definition and uses of remote sensin	ng and		14	2.00	28.00				
	als/Labs	ig and	_	0	0.00	0.00				
Self_stu	variability. dv and preperation Definition and uses of remote sensin		F	20	2.00	40.00				
Homew		na ana	<u> </u>	0	0.00	0.00				
Project	variability.			0	0.00	0.00				
Field St	tudies			0	0.00	0.00				
	Materials:		a	րգ Climate Risks in Ag						
Others			Ш	eidelhera 520 nn O	0.00	0.00				
Final E	rams		Α	ր Educator's Resource	for Inquiry-Based I	_earming for				
	/ork Load		IG	rades 5-9 National Ae	ronautics and Space	86.00				
	ork load/ 30 hr					2.87				
	Credit of the Course					3.00				
	EARNING ACTIVITIES	NUMBE	W	EIGHT		0.00				
Midtern	n Exam	1	4	0.00						
Quiz 0				0.00						
Home work-project 0				0.00						
Final Exam 1				60.00						
Total 2				100.00						
	ution of Term (Year) Learning Activiti s Grade		40.00							
Contrib	ution of Final Exam to Success Grad	e	60.00							
Total			100.00							

24 ECTS / WORK LOAD TABLE																
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	1	2	0	0	0	0	0	3	4	2	0	0	0	0	0
ÖK2	3	4	2	0	1	0	0	0	3	3	2	0	0	0	0	0
ÖK3	4	4	3	4	5	0	0	5	4	5	2	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2	2 low		3 Medium			4 High				5 Very High			