CLIMATOLOGY II

1	Course Title:	CLIMATOLOGY II
2	Course Code:	COG1004
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Dr. Ögr. Üyesi ABDULLAH AKBAŞ
15	Course Lecturers:	Yok
16	Contact information of the Course Coordinator:	Dr. Öğr. Üyesi Abdullah AKBAŞ email:abdullahakbas@uludag.edu.tr
17	Website:	
18	Objective of the Course:	The main purpose of the Climatology courses within the scope of the Department of Geography at Physical Geography Division is: To teach geography students the basics of contemporary meteorology and climatology within the scope of our current knowledge of atmosphere, weather and climate, To teach the short-term processes in the atmosphere, meteorological events and their changes, to teach the climates on earth, their origins, distribution, and their functions as an element that shapes the natural environment.
19	Contribution of the Course to Professional Development:	This course provides the needs that wanted by environmental agencies
20	Learning Outcomes:	

	1	Understands and explains the water cycle
	2	Explain the concepts of moisture and makes simple calculations
	3	Understands moisture measurements and explains spatial and temporal distribution
	4	Combines Atmospheric Stability (Instability) conditions with weather conditions.
	5	Understands and synthesizes condensation and convection processes
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21	Course Content:
	Course Content:

Week	Theoretical	Practice
1	Atmospheric Humidity and the Hydrological Water Cycle	
2	Saturation and Moisture	
3	Relative Humidity Changes and Humidity Measurements	
4	Adiabatic Temperature Changes in the Atmosphere	
5	Stability in the Atmosphere and Air Pollution	
6	Convection, Condensation and Cloud Forming	
7	Types and Formation of Fog	
8	Precipitation Climatology	
9	Air Masses, Source Regions and Classification	
10	Fronts and Weather Events	
11	Mid-latitude cyclones and anticyclones	
12	Thunderstorms	
13	Weather Analysis and Forecasts	
14	Synoptic Map Drawing	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	9.00	126.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	1.00	1.00
Others	0	0.00	0.00
Final Exams	1	1.00	1.00
Contribution of Term (Year) Learning Activities to	40.00		
Total Work Load			156.00
Contribution of Final Exam to Success Grade	60.00		5.20
ECTS Credit of the Course			5.00

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Quiz	0	0.00
Final Exam	1	60.00
Total work load	30	

Measurement and Evaluation Techniques Used in the Course	Midterm Exam, Final and make-up examination

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	5	4	5	4	5	4	5	5	5	4	5	5	0	0	0
ÖK2	4	5	3	5	0	3	4	2	4	4	4	4	4	0	0	0
ÖK3	5	3	2	4	4	5	4	5	3	5	3	4	4	0	0	0

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ÖK4	4	5	4	4	5	3	5	4	4	5	3	5	5	0	0	0
ÖK5	4	4	4	3	5	3	4	4	4	5	3	5	4	0	0	0

LO: Learning Objectives PQ: Program Qualifications

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