GREENHOUSE GASES CALCULATION METHODS AND CLIMATE CHANGE

1	Course Title:	GREENHOUSE GASES CALCULATION METHODS AND CLIMATE CHANGE	
2	Course Code:	CEV5271	
3	Type of Course:	Optional	
4	Level of Course:	Second 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. S.SIDDIK CİNDORUK	
15	Course Lecturers:	Yok	
16	Contact information of the Course Coordinator:	Bursa Uludağ Üniversitesi Mühendislik Fakültesi Çevre Mühendisliği Bölümü Tel: 0224 2942114 e-posta: cindoruk@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	The aim of this course is to provide information about the climate change which has become an important problem in recent years and the greenhouse gases calculation methods.	
19	Contribution of the Course to Professional Development:	Those who take the course will be able to master the calculation methods of greenhouse gases, which have become an important problem in the world, and understand the problem of climate change.	
20	Learning Outcomes:		
		1	To have information about the Climate Change.
		2	To have knowledge about greenhouse gases and resources
		3	To have knowledge about greenhouse gas calculation methods
		4	To have information about monitoring plan and reporting.
		5	To have knowledge about calculation software.
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21	Course Content:		
	Course Content:		
Week	Theoretical	Practice	
1	Introduction, Climate definition and climate systematic		
2	Climate change theory and evidences		

3	Causes leading to climate change	
4	Climate change- United Nations Framework Convention and Climate Change	
5	KYOTO Protocol	
6	Conference of Parties	
7	Midterm exam	
8	Greenhouse gas regulation	
9	Monitoring and Reporting Act	
10	Emission Calculation and Reporting	
11	M&R Guide	
12	IPCC Software	
13	Sectoral Samples	
14	Case Study presentations	

22	Textbooks, References and/or Other Materials:	1. IPCC Guidelines 2. David Archer. 2012. Global Warming: Understanding the Forecast. University of Chicago. 3. Trevor M. Letcher. 2009. Climate Change: Observed Impacts on Planet Earth. Elsevier
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	30.00
Final Exam	1	60.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Homework, midterm and final exam

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	0	0.00	0.00
Homeworks	5	20.00	100.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			186.00
Total work load/ 30 hr			6.20
ECTS Credit of the Course			6.00

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0

ÖK5	0	0	0	0	0	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**