COMPUTER AIDED DRAWING

1	Course Title:	COMPUTER AIDED DRAWING
2	Course Code:	EHAZ203
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	2
6	Semester:	3
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	1
11	Prerequisites:	none
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Öğr.Gör. MUSTAFA PALA
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları.
16	Contact information of the Course Coordinator:	Öğr. Gör Cafer KAPLAN Bursa Uludağ Üniversitesi Teknik Bilimler MYO Hibrid ve Elektrikli Taşıtlar Prog. Görükle / Bursa
17	Website:	
18	Objective of the Course:	It is aimed to introduce the technology of hybrid and electric vehicles, to learn the systems that make up the vehicle, to make maintenance and repair.
19	Contribution of the Course to Professional Development:	Students will be provided with the technology of hybrid and electric vehicles developing due to the transformation in automotive technology, and learning about their maintenance and repairs.
20	Learning Outcomes:	

	1	Understanding the usage areas of AUTOCAD program, will have information about the place of computer aided design in industry.
	2	Will be able to prepare technical drawing sheets in a format conforming to industry standards in computer environment. ? Will be able to print a drawing sheet prepared in a computer program in a suitable format and make it ready for distribution.
	3	will be able to visualize the details of a product in 2 dimensions through a computer-aided design program.
	4	Will be able to draw the views and sections of the products in computer environment.
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21	Course Content:

Course Content:

Week	Theoretical	Practice
1	Introduction to Computer Aided Technical Drawing	Introducing and using the design program.
2	Parametric Design and Basic Drawing Functions	Basic drawing commands.
3	Principles of Dimensioning	Dimension commands and usage principles.
4	Parallel Projection and Views	Ways of making looks and my trail.
5	Sectioning	Sectioning rules, section plane, section surface, full section, half section.
6	Drawing Sectional Views	Kademeli kesit, kısmi kesit, döndürülmüş kesit, taşınmış
7	Three Dimensional Design and Solid Modeling	Stepped section, partial section, rotated section, moved
8	Midterm Exam	
9	Application of Constraints and Dimensioning	Technical drawing from solid model with the technique of
11	Geometric Surface Acquisition	of normal force.
12	Assembly Modeling and Assembly of Parts	Assembly techniques, design of parts to be assembled.
13	3D Movable Mechanism Design	Creating an assembly file and joining parts.
14	Textbooks, References and/or Other Materials:	Mechanism design, assembly and animation.
22	Final Exams	Electric and Hybrid Vehicles: Term Project
		Hybrid Electric Vehicles: Principles and Applications with Practical Perspectives

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	1.00	14.00
Seminars and Presentations	14	2.00	28.00
Homeworks	2	10.00	20.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	17.00	17.00
Others	0	0.00	0.00
Final Exams	1	17.00	17.00
Total Work Load			124.00
Total work load/ 30 hr			4.13
ECTS Credit of the Course			4.00

23	Assesment

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
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	Measurement and evaluation is carried out according to the priciples of Bursa uludag University Associate and 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	3	4	3	3	2	3	2	3	3	0	0	0	0	0	0	0
ÖK2	2	3	3	4	3	3	4	5	4	0	0	0	0	0	0	0
ÖK3	2	3	2	3	4	4	4	4	3	0	0	0	0	0	0	0
ÖK4	3	4	4	5	4	3	3	5	3	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK9	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**				