



**AYDIN ADNAN MENDERES UNIVERSITY**  
**KARACASU MEMNUNE İNCI VOCATIONAL SCHOOL**  
**HANDICRAFTS**  
**JEWELLERY AND JEWELLERY DESIGN**  
**COURSE INFORMATION FORM**

Course Title	Gemstones								
Course Code	KTT202			Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	The students, taking advantage of the physical characteristics of optical-of gem stones; synthetic, aimed distinction can be made of natural stone and imitation jewelry.								
Course Content	The hardness of the course in gem stones, the concept of specific gravity, color information and issues such as kırıl landed on the anlatılmakt.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study, Problem Solving								
Name of Lecturer(s)	Ins. Ufuk ÖREN								

#### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

#### Recommended or Required Reading

1	Gemological laboratories and equipment.
2	Murat Hatipoglu, colored precious stones

Week	Weekly Detailed Course Contents	
1	Theoretical	Jewelry carries mineralogy
2	Theoretical	Jewelry carries mineralogy
3	Theoretical	Hardness of the gem stones
4	Theoretical	The concept of specific gravity, specific weight of gem stones
	Practice	The concept of specific gravity, specific weight of gem stones
	Laboratory	The concept of specific gravity, specific weight of gem stones
5	Theoretical	Colors, the refraction of light
	Laboratory	Colors, the refraction of light
6	Theoretical	The concept of the refractive index, the refractive indices of gem stones
7	Theoretical	Optical pick-band value of gem stones, inclusions in gemstones
	Laboratory	Optical pick-band value of gem stones, inclusions in gemstones
8	Theoretical	Cutting error of gem stones, gem stones formation of lines
	Laboratory	Cutting error of gem stones, gem stones formation of lines
9	Theoretical	Diamond and features
10	Theoretical	CORENDON and features, and characteristics of beryl
	Laboratory	CORENDON and features, and characteristics of beryl
11	Theoretical	Topaz and features, and characteristics of chrysoberyl
	Laboratory	Topaz and features, and characteristics of chrysoberyl
12	Theoretical	Pearl and features, Coral and features
	Laboratory	Pearl and features, Coral and features
13	Theoretical	Quartz and properties, Tourmaline and features
	Laboratory	Quartz and properties, Tourmaline and features
14	Theoretical	Garnet and properties, spodumene and properties
	Laboratory	Garnet and properties, spodumene and properties

#### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28



Lecture - Practice	14	0	2	28
Project	1	0	5	5
Midterm Examination	1	4	2	6
Final Examination	1	6	2	8
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	To carry out the jewelry mineralogy.
2	To learn the optical properties of gem stones.
3	To learn the physical properties of gem stones.
4	Grouping the group to learn the features and gem stones.
5	To be able to use the gemology laboratory.

### Programme Outcomes (*Jewellery and Jewellery Design*)

1	-
2	-
3	-
4	-
5	-
6	-
7	-
8	-
9	-
10	-
11	-
12	-
13	-
14	-
15	-
16	-
17	-

### Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P8	5	5	5	5	5
P11	5	5	5	5	5
P12	5	5	5	5	5

