



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

Course Title	Knowledge of Materials and Applications								
Course Code	KTT113			Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	1	Laboratory	0
Objectives of the Course	Increasing the diversity of materials to be used								
Course Content	Information about the structural properties of the material, the reaction may be taken during processing and evaluation of alternative materials could be used.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), 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	Malzeme Bilimi, Kaşif Onaran, Bilim Teknik Yayınları, Trabzon, 2011,
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Week	Weekly Detailed Course Contents	
1	Theoretical	Description of materials used in jewelry
2	Theoretical	The choice of materials used in jewelry
3	Theoretical	General properties of the material
4	Theoretical	Atomic structure and bonding
5	Theoretical	Crystal structure
6	Theoretical	Electrical materials, magnetic, optical and thermal properties
7	Theoretical	The mechanical properties of materials
8	Theoretical	inspection method of Materials
9	Theoretical	Applications of the materials used in jewelry
10	Theoretical	Applications of the materials used in jewelry
11	Theoretical	Applications of the materials used in jewelry
12	Theoretical	Applications of the materials used in jewelry
13	Theoretical	Applications of the materials used in jewelry
14	Theoretical	Applications of the materials used in jewelry

#### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Lecture - Practice	14	0	1	14
Term Project	2	2	3	10
Quiz	1	1	3	4
Final Examination	1	2	3	5
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

\*25 hour workload is accepted as 1 ECTS

#### Learning Outcomes

1	To recognize the materials used in jewelry.
2	To learn the physical properties of metals used in jewelry.
3	To learn the chemical properties of metals used in jewelry.



4	To be able to learn the inspection methods of materials used in jewelry.
5	To be able to develop new applications related to the materials used in jewelry.

**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
P1	5	5	5	5	5
P2	5	5	5	5	5
P3	5	5	5	5	5
P7	5	5	5	5	5

