



Kütahya Dumlupınar University

Faculty of Engineering
Materials Science and Engineering

131917604 Art Ceramics(Tec. Elec. Course V)					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	131917604	Art Ceramics(Tec. Elec. Course V)	3	3	5

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Materials Science and Engineering

Course Type:

Seçmeli

Goals:

To produce glaze, angob and pigment which add artistic value to every product that is used little and used in the production of industrial ceramic products. To obtain artistic sense color and texture in ceramic glazes.

Teaching Methods and Techniques:

They are informed about artistic ceramics glazes, angob and pigment. Seger formula is formed. The recipe is calculated from the Seger formula. Production process is created and artistic ceramic glaze, angob and pigment are produced.

Prerequisites:

Course Coordinator:

Instructors:

Assistants:

Recommended Sources

Textbook	:
Resources	:
Documents	:
Assignments	:
Exams	:

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Definitions and general information of ceramic glazes, angob and pigment.		
2	Seramik sirlar, angob ve pigment formülü olarak ifade edilir.		
3	Angob, pigment ve seger formülündeki oksitlerin özellikleri.		
4	A Ceramic glaze that known Seger formula calculate recipe.		
5	A Ceramic glaze that known recipe calculate Seger formula.		
6	A Ceramic glaze that known chemical analysis calculate Seger formula.		
7	Preparation of ceramic glaze, angob and pigment.		
8	The use of prepared ceramic glaze, angob and pigment.		
9	Glazing methods		
10	Various properties of ceramic glaze, angob and pigment.		
11	Artistic ceramic glazes, angob and pigment.		
12	Artistic ceramic glaze, angob and pigment applications.		
13	Artistic ceramic glaze, angob and pigment applications.		
14	Artistic ceramic glaze, angob and pigment applications.		

Course Learning Outcomes

No	Learning Outcomes
C01	Will have a general knowledge in artistic ceramics glazes.
C02	Will have a general knowledge in the Seger formula.
C03	Makes numerical operations about ceramic glaze such as Seger formula, chemical composition, recipe.
C04	Have general knowledge about ceramic angob.
C05	It will be knowledge about numerical processes related to chemical composition and prescription about ceramic angob.
C06	Will have a general knowledge in the ceramic pigment.
C07	It will be knowledge about numerical processes related to chemical composition and prescription about ceramic pigment.

Program Learning Outcomes

No	Learning Outcome
P01	Engineering graduates with sufficient theoretical and practical background for a successful profession and with application skills of fundamental scientific knowledge in the engineering practiced
P03	Engineering graduates with the necessary technical, academic and practical knowledge and application confidence in the design and assessment of machines or mechanical systems or industrial pro
P02	Engineering graduates with skills and professional background in describing, formulating, modeling and analyzing the engineering problem, with a consideration for appropriate analytical solutions ir
P05	Ability of designing and conducting experiments, conduction data acquisition and analysis and making conclusions
P06	Ability of identifying the potential resources for information or knowledge regarding a given engineering issue
P04	Engineering graduates with the practice of selecting and using appropriate technical and engineering tools in engineering problems, and ability of effective usage of information science Technologie
P10	Engineering graduates with well-structured responsibilities in profession and ethics
P08	Ability for effective oral and official communication skills in Turkish Language and, at minimum, one foreign language
P07	The abilities and performance to participate multi-disciplinary groups together with the effective oral and official communication skills and personal confidence
P13	Having enough level of general culture (Mother language, foreign languages, history etc.)
P12	Consciousness for the results and effects of engineering solutions on the society and universe, awareness for the developmental considerations with contemporary problems of humanity
P11	Engineering graduates who are aware of the importance of safety and healthiness in the project management, workshop environment as well as related legal issues
P09	Engineering graduates with motivation to life-long learning and having known significance of continuous education beyond undergraduate studies for science and technology

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	1	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	14	3	42
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	1	10	10
Project	0	0	0
Final examination	1	15	15
Total Work Load			119
ECTS Credit of the Course			4

Course Contribution To Program	
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant	