

**(08)**

**Department of Ceramics**

Table No. (59)

Department: Ceramics

Department No. (08)

First Year

First Semester

No.	Code No.	Course Title	Number of Weekly Hours			Marks Distribution				Exam Hours
			Lecture	Lesson	Total	Semester Work Marks	Oral	Written	Total	
							Discussion			
1	1101	Ceramic Design Basics	2	-	2	10	10	30	50	2
2	1102	Ceramic Art Design	-	6	6	-	60	-	60	Extended
3	1105	Ceramic Design Display Techniques	-	2	2	-	20	-	20	Extended
4	1107	Ceramic Forming Techniques	1	3	4	20	20	60	100	2
5	1109	Ceramic Production Techniques	2	4	6	30	30	90	150	2
6	1203	Theory of Machines	4	-	4	20	20	60	100	2
7	1502	Physics of Materials (Ceramic)	1	2	3	15	15	45	75	2
8	1501	Chemistry of Materials (Ceramic)	1	2	3	15	15	45	75	2
9	1405	Geometric Perspective	1	3	4	20	20	60	100	4
10	1602	Languages	2	-	2	10	10	30	50	2
Total Weekly Hours			14	22	36	Total Marks			780	

Table No. (60)

Department: Ceramics

Department No. (08)

First Year

Second Semester

No.	Code No.	Course Title	Number of Weekly Hours			Marks Distribution				Exam Hours
			Lecture	Lesson	Total	Semester Work Marks	Oral	Written	Total	
							Discussion			
1	1102	Ceramic Art Design	-	6	6	-	90	-	90	-
2	1105	Ceramic Design Display Techniques	-	2	2	-	30	-	30	-
3	1108	Patterns and Moulds Technology	2	4	6	30	30	90	150	2
4	1113	Ceramic Mixtures Preparation	2	2	4	20	20	60	100	2
5	1116	History of Ceramic	1	1	2	10	10	30	50	2
6	1204	Ceramic Machines	4	-	4	20	20	60	100	2
7	1403	Computer	1	3	4	20	20	60	100	2
8	1503	Mathematics	2	-	2	10	10	30	50	2
9	1306	Still Life	-	4	4	-	100	-	100	-
10	1603	History of Arts	2	-	2	10	10	30	50	2
Total Weekly Hours			14	22	36	Total Marks			820	

Table No. (61)

Department: Ceramics

Department No. (08)

Second Year

First Semester

No.	Code No.	Course Title	Number of Weekly Hours			Marks Distribution				Exam Hours
			Lecture	Lesson	Total	Semester Work Marks	Oral	Written	Total	
							Discussion			
1	2102	Ceramic Art Design	-	6	6	-	60	-	60	Extended
2	2103	Industrial Ceramic Design	-	4	4	-	40	-	40	Extended
3	2109	Ceramic Production Techniques	2	4	6	30	30	90	150	2
4	2111	Working Drawings	-	4	4	-	100	-	100	Discussion
5	2204	Ceramic Machines	4	-	4	20	20	60	100	2
6	2503	Physics (Ceramic Materials)	1	2	3	15	15	45	75	2
7	2501	Chemistry (Ceramic Materials)	1	2	3	15	15	45	75	2
8	1603	History of Arts	2	-	2	10	10	30	50	2
9	2407	Planning and Production Management	2	-	2	10	10	30	50	2
10	2505	Feasibility Study	2	-	2	10	10	30	50	2
Total Weekly Hours			14	22	36	Total Marks			750	

Table No. (62)

Department: Ceramics

Department No. (08)

Second Year

Second Semester

No.	Code No.	Course title	Number of Weekly Hours			Marks Distribution				Exam Hours
			Lecture	Lesson	Total	Semester Work Marks	Oral	Written	Total	
							Discussion			
1	2102	Ceramic Art Design	-	6	6	-	90	-	90	Discussion
2	2103	Industrial Ceramic Design	-	4	4	-	60	-	60	Discussion
3	2108	Patterns and Moulds Technology	2	4	6	30	30	90	150	2
4	2115	Technology of Refractories	2	-	2	10	10	30	50	2
5	2116	History of Ceramic	1	1	2	10	10	30	50	2
6	2205	Colour Technology	4	-	4	20	20	60	100	2
7	2403	Computer	1	3	4	20	20	60	100	2
8	2503	Mathematics	2	-	2	10	10	30	50	2
9	1306	Still Life	-	4	4	-	100	-	100	Discussion
10	2602	Languages	2	-	2	10	10	30	50	2
Total Weekly Hours			14	22	36	Total Marks			800	

Table No. (63)

Department: Ceramics

Department No. (08)

Third Year

First Semester

No.	Code No.	Course Title	Number of Weekly Hours			Marks Distribution				Exam Hours
			Lecture	Lesson	Total	Semester Work Marks	Oral	Written	Total	
							Discussion			
1	3103	Industrial Ceramic Design	-	6	6	-	60	-	60	Extended
2	3104	Architectural Ceramic Design	-	6	6	-	60	-	60	Extended
3	3110	Ovens and Firing Technology	1	3	4	20	20	60	100	2
4	3114	Glass Paint Technology	1	3	4	20	20	60	100	2
5	3205	Colour Technology	2	2	4	20	20	60	100	2
6	3704	Ecology	2	4	6	30	30	90	150	2
7	3406	Electrical Engineering	2	-	2	10	10	30	50	2
8	3604	Criticism and Art Appreciation	2	-	2	10	10	30	50	2
9	3605	Aesthetics	2	-	2	10	10	30	50	2
Total Weekly Hours			12	24	36	Total Marks			720	

Table No. (64)

Department: Ceramics

Department No. (08)

Third Year

Second Semester

No.	Code No.	Course Title	Number of Weekly Hours			Marks Distribution				Exam Hours
			Lecture	Lesson	Total	Semester Work Marks	Oral	Written	Total	
							Discussion			
1	3103	Industrial Ceramic Design	-	6	6	-	90	-	90	Discussion
2	3104	Architectural ceramic Design	-	6	6	-	90	-	90	Discussion
3	3115	Technology of Refractories	3	3	6	30	30	90	150	2
4	3117	Ceramic Design Economics	2	-	2	10	10	30	50	2
5	3301	Control Systems and Quality Control	4	-	4	20	20	60	100	2
6	3403	Computer	1	3	4	20	20	60	100	2
7	3602	Languages and Discussions in a Foreign Language	2	-	2	10	10	30	50	2
8	3307	Living Nature	-	4	4	-	100	-	100	-
9	3603	History of Arts	2	-	2	10	10	30	50	2
Total Weekly Hours			14	22	36	Total Marks			780	

Table No. (65)

Department: Ceramics

Department No. (08)

Fourth Year

First Semester

No.	Code No.	Course Title	Number of Weekly Hours			Marks Distribution				Exam Hours
			Lecture	Lesson	Total	Semester Work Marks	Oral	Written	Total	
							Discussion			
1	4102	Ceramic Art Design	-	4	4	-	100	-	100	Discussion
2	4103	Industrial Ceramic Design	-	4	4	-	100	-	100	Discussion
3	4104	Architectural Ceramic Design	-	4	4	-	100	-	100	Discussion
4	4106	Ceramic Restoration	1	3	4	-	100	-	100	Discussion
5	4110	Ovens and Firing Technology	1	3	4	20	20	60	100	2
6	4303	Production and Marketing Management	4	-	4	20	20	60	100	2
7	4704	Ecology	2	4	6	30	30	90	150	2
8	4604	Criticism and Art Appreciation	2	-	2	20	-	30	50	2
9	4307	Aesthetics	2	-	2	10	10	30	50	2
10	4705	Introduction to Psychology	2	-	2	10	10	30	50	2
Total Weekly Hours			14	22	36	Total Marks			900	

Table No. (66)

Department: Ceramics

Department No. (08)

Fourth Year

Second Semester

No.	Code No.	Course Title	Number of Weekly Hours			Marks Distribution				Exam Hours
			Lecture	Lesson	Total	Semester Work Marks	Oral	Written	Total	
							Discussion			
1	4120	Graduation Project	-	12	12	-	300	-	300	Discussion
2	4106	Ceramic Restoration	1	3	4	-	100	-	100	Discussion
3	4112	Standard Specifications	2	-	2	10	10	30	50	2
4	4117	Ceramic Design Economics	2	-	2	10	10	30	50	2
5	4206	Introduction to Archaeology	4	-	4	20	20	60	100	2
6	4403	Computer	1	3	4	20	20	60	100	2
7	4602	Languages and Discussions in a Foreign Language	2	-	2	10	10	30	50	2
8	4307	Living Nature	-	4	4	-	100	-	100	Discussion
9	4603	History of Arts	2	-	2	10	10	30	50	2
Total Weekly Hours			14	22	36	Total Marks			900	

## **(08) Department of Ceramics**

### **1101 08 Ceramic Design Basics**

Ceramic – definition – relationship with art and industry – ceramic activity – ceramic design basics – used tools – ceramic product – different techniques of ceramic design.

### **1102 08 Ceramic Art Design**

**2102**

**4102**

Artistic ceramic mural design (decorative unites – tiles) – designing artistic ceramic cutters – designing ceramic from the environment art – designing ceramic vases and table lamps – designing ceramic for gardens – designing ceramic accessories.

### **2103 08 Industrial Ceramic Design**

**3103**

**4103**

Tableware ceramic design – designing bathroom sets – designing sewage lines and networks ceramic – designing home accessories ceramic – designing electrical and thermal insulators ceramic.

### **3014 08 Architectural Ceramic Design**

**4014**

Designing architectural ceramic units depending on local materials – designing fountains, gardens accessories and monuments ceramic – designing ceramic accessories for public bathrooms.

### **1105 08 Ceramic Design Display Techniques**

Presenting the ceramic design ideas – studying the form and texture of the material – highlighting the idea of the design to express the ceramic product final form – ceramic design and environment symmetry.

### **4106 08 Ceramic Restoration**

Assessing the ceramic antiques – studying the ceramic periods – identifying production techniques in these periods – restoration techniques – maintaining the production elements and history – restoration and historic value.

**1107 08 Ceramic Forming Techniques**

Ceramic formation using different techniques – manual – automatic – samples production – identifying the formation and control capabilities and resistance to cracking, collapsing, burning and oven baking.

**1108 08 Patterns and Moulds Technology**

**2108**

Types – producing original design duplicates – scientific and artistic principles of production – moulds – usage methods – utilization for the service of design and production.

**1109 08 Ceramic Production Techniques**

**2109**

Geometric techniques of ceramic mass production and stages of production –preparing the clay mixture – the product – finishing – sell and use preparation.

**3110 08 Ovens and Firing Technology**

**4110**

Building special ceramic baking ovens – arranging in the oven methods – required temperature – execution stages – ovens types – operating methods.

**2111 08 Working Drawings**

Detailed drawings of the ceramic product – moulds drawings – aesthetic and artistic aspects of ceramic product.

**4112 08 Standard Specifications**

Ceramic mixtures assessment – drawing up the standard specifications – baking temperatures - glass paint types – surfaces processing – international standards application when designing ceramic products.

**1113 08 Ceramic Mixtures Preparation**

Preparing different ceramic mixtures – the product nature of use and function – finishing methods – required baking temperatures.

**3111 08 Glass Paint Technology**

Types of the glass paint suitable for different ceramic forms – techniques of preparation, application, firing temperatures and aesthetic influences on ceramic products.

**2115 08 Technology of Refractories**

**3115**

Technology of Refractories – utilization fields – production methods – design specifications – special tests.

**1116 08 History of ceramic**

History of ceramic – products development through history (From primitive human and until now) – production development methods – baking methods – firing – Philosophies behind the emergence of different forms of ceramic products.

**3117 08 Ceramic Design Economics**

**4117**

The different economic methods of ceramic production – required quality specifications of the ceramic product for the different usage purposes.

**4118 08 Graduation Project**

**3210 08 Control Systems and Quality Control**

Production control operations – inspecting the quality of the ceramic products – manufacturing defects – conformity to specifications and suitability to the international quality systems.

**4202 Production and Marketing Management**

Management of the different ceramic production operations – stages – planning – ceramic productions marketing – transportation, storage, circulation and promotion conditions.



**1203            Theory of Machines**

Geometric systems related to transmission – the technique and nature of the machine performance – ceramic machinery – operation and performance techniques – control methods.

**1204    08   Ceramic Machines**

Formation machines – firing – ceramic products finishing – lab equipment – measurement and calibration.

**2205    08   Colour Technology**

**3205**

Interior colour systems in ceramic products specialty – ceramic forms – glass paints separately or merged – the influence of firing and baking on the colour – different effects.

**4206    08   Introduction to Archaeology**

Archaeology – definition – introduction – artistic aspects – technological aspects – legal aspects – ceramic restoration with the preservation of the historic value.