

## SCHOOL FOR THE HANDICAPPED

School for the Handicapped activated in the academic year of 1993-1994. Education, in the Department of Applied Fine Arts, Graphic Arts Bachelor's goes on Degree Programme, Seramic Arts Bachelor's Degree Programme; in the department of Administrative Vocations, Computer Operator Training Associate Degree Programme; in the department of Architecture, Architectural Drafting Associate Degree Programme. The departments are equipped with the necessary technology to accomodate to the educational needs of the hearing impaired.

Director : Prof. Dr. Emine Sema BATU  
Deputy Director : Assoc. Prof. Lale DEMİR ORANSAY  
Deputy Director : Asst. Prof. Dr. Zehranur KAYA  
Secretary of High School : Cevat ERKEN

### STAFF

**Professors:** İbrahim Halil DİKEN, Pınar GENÇ, Mehmet Cem GİRGIN, Ayşe Ümran TÜFEKÇİOĞLU, Yıldız UZUNER

**Associate Professors:** Dilek ALKAN ÖZDEMİR, Lale DEMİR ORANSAY

**Assistant professors:** Ramazan AKDOĞAN, Behram ERDİKEN, Özlem ESEN, Ece KANIŞKAN, Güzin KARASU, Zehranur KAYA, Meltem ÖZTEN ANAY, Nilgün SALUR, Ayşe TANRIDİLER, Sema ÜNLÜER

**Lecturers:** Çimen ACAR, Yusuf ARICI, Ayşe BERAL, Tamer DERİCAN, Ercan DURAL, Derya EDE, Ahmet Cüneyt ER, Esra ERTAN, Bülent GAYTANLI, Çiğdem İSTEL, Çiğdem ÖNDER ER, A. Alemdar SUNGAR, Deniz TAŞKIRAN, Hesna TOPÇU, Levent UYGUNGÖZ, Hakan ÜNALAN

**Instructors:** Kevser CANDEMİR, Sebahat YAŞAR

**Others:** Gökçen ABALI, Yıldray TOSUN

## DEPARTMENT OF APPLIED FINE ARTS

### CERAMIC ARTS

In this programme education is executed in plaster, casting slip, glazing, dexoring, clay and glaze preparing studios, technology laborantories and firing room, equipped with visual and technological materials. Students can research using Internet.

### PROGRAM

I. SEMESTER			II. SEMESTER		
BİL 103	Fundamentals of Information Technology	2+2 5,0	SER 114	Basic Art II	2+3 7,0
PPT 121	Technical Drawing and Perspective in Ceramics I	2+1 5,0	SER 126	Fundamentals of Ceramics II	2+2 6,0
SER 125	Fundamentals of Ceramics I	3+3 6,0	SER 128	Plaster Model Building	3+3 6,0
SER 127	Basic Art I	2+3 7,0	SER 130	Ceramic Raw Materials	2+0 4,0
TÜR 113	Writing and Speaking Skills for Ceramic Arts I	3+0 2,0	TÜR 114	Writing and Speaking Skills for Ceramic Arts II	3+0 2,0
TÜR 155	Turkish Language I	2+0 2,0	TÜR 156	Turkish Language II	2+0 2,0
	<i>Elective Courses (1)</i>	- 3,0		<i>Elective Courses (1)</i>	- 3,0
					30,0
					30,0

**III. SEMESTER**

DJT 201	Basic Design in Digital Media I	2+2	4,0
İNG 157	(Eng) English I	2+0	2,0
SER 245	Plaster Mould Shaping	3+3	7,0
SER 271	Ceramic Technology and Applications I	2+2	6,0
SNT 229	Art History I	2+0	3,0
TAR 161	Atatürk's Principles and History of Turkish Revolution I	2+0	2,0
TÜR 225	Writing and Speaking Skills for Ceramic Arts III	3+0	2,0
	<i>Elective Courses (1)</i>	-	4,0
			<u>30,0</u>

**V. SEMESTER**

DJT 301	Introduction to Three Dimensional Design in Digital Environment I	2+2	3,0
SER 273	Technological Practice I	2+3	5,0
SER 337	History of Traditional Ceramics Art	2+0	3,0
SER 369	Methods of Plaster Mold Duplication I	3+3	6,0
SER 371	Artistic Ceramics I	3+3	6,0
TÜR 317	Turkish Language Skills for Ceramic Arts I	3+0	3,0
	<i>Elective Courses (1)</i>	-	4,0
			<u>30,0</u>

**VII. SEMESTER**

DJT 401	Three Dimensional Design in Digital Environment I	2+2	6,0
SER 431	Ceramic Technology	2+2	5,0
TÜR 419	Turkish Language Skills for Ceramic Arts III	3+0	3,0
	<i>Departmental Elective Courses (1)</i>	-	8,0
	<i>Elective Courses (2)</i>	-	8,0
			<u>30,0</u>

**DEPARTMENTAL ELECTIVE COURSES**

SER 491	Industrial Ceramic Design I	3+3	8,0
SER 492	Industrial Ceramic Design II	3+3	8,0
SER 493	Artistic Ceramic Design I	3+3	8,0
SER 494	Artistic Ceramic Design II	3+3	8,0

**ELECTIVE COURSES**

BEÖ 155	Physical Education	2+0	2,0
BİL 221	Computer Assisted Presentation	2+1	3,0
DJT 303	Basic Design in Digital Media III	2+2	3,0
DJT 304	Basic Design in Digital Media IV	2+2	3,0
EDB 116	Book Talk	2+1	3,0
İSN 106	Organizational Communication	2+0	2,0
İŞL 311	Management Accounting of Ceramic Production	2+0	4,0

**IV. SEMESTER**

DJT 202	Basic Design in Digital Media II	2+2	4,0
İNG 158	(Eng) English II	2+0	2,0
SER 236	Throwing Clay Wheel Techniques	3+3	7,0
SER 272	Ceramic Technology and Applications II	2+2	6,0
SNT 230	Art History II	2+0	3,0
TAR 162	Atatürk's Principles and History of Turkish Revolution II	2+0	2,0
TÜR 226	Writing and Speaking Skills for Ceramic Arts IV	3+0	2,0
	<i>Elective Courses (1)</i>	-	4,0
			<u>30,0</u>

**VI. SEMESTER**

DJT 302	Introduction to Three Dimensional Design in Digital Environment II	2+2	3,0
SER 274	Technological Practice II	2+3	5,0
SER 370	Methods of Plaster Mould Duplication II	3+3	6,0
SER 372	Artistic Ceramics II	3+3	6,0
SNT 314	Turkish Art History	2+0	3,0
TÜR 318	Turkish Language Skills for Ceramic Arts II	3+0	3,0
	<i>Elective Courses (1)</i>	-	4,0
			<u>30,0</u>

**VIII. SEMESTER**

DJT 402	Three Dimensional Design in Digital Environment II	2+2	6,0
SER 418	Portfolio Design	2+2	5,0
TÜR 420	Turkish Language Skills for Ceramic Arts IV	3+0	3,0
	<i>Departmental Elective Courses (1)</i>	-	8,0
	<i>Elective Courses (2)</i>	-	8,0
			<u>30,0</u>

KÜL 199	Cultural Activities	0+2	2,0
MAT 243	Mathematics I	2+0	3,0
MAT 244	Mathematics II	2+0	3,0
MİT 306	Mythology	2+0	4,0
PPT 122	Technical Drawing and Perspective in Ceramics II	2+1	3,0
RSM 221	Painting	2+1	4,0
SAN 155	Hall Dances	0+2	2,0
SER 117	Drafting Techniques	2+0	2,0
SER 119	Art Terminology	2+0	2,0
SER 131	Language of Ceramic Art I	2+0	3,0
SER 132	Language of Ceramic Art II	2+0	3,0
SER 218	Ceramic Technology and Application II	3+2	6,0
SER 253	Language of Ceramic Art III	2+0	3,0
SER 254	Language of Ceramic Art IV	2+0	3,0

SER 257	Methods of Glazing and Firing I	2+2	3,0	SER 480	Technical Decoration Methods IV	2+2	4,0
SER 258	Methods of Glazing and Firing II	2+2	3,0	SER 801	Individual Ceramic Arts Language Support Courses I	2+0	2,0
SER 259	Ceramic Pattern I	2+2	4,0	SER 802	Individual Ceramic Arts Language Support Courses II	2+0	2,0
SER 260	Ceramic Pattern II	2+2	4,0	SER 803	Individual Ceramic Arts Language Support Courses III	2+0	2,0
SER 261	Open Space Ceramics	2+2	4,0	SER 804	Individual Ceramic Arts Language Support Courses IV	2+0	2,0
SER 367	Technical Decoration Methods I	2+2	3,0	SER 805	Individual Ceramic Arts Language Support Courses V	2+0	2,0
SER 368	Technical Decoration Methods II	2+2	3,0	SER 806	Individual Ceramic Arts Language Support Courses VI	2+0	2,0
SER 375	Language of Ceramic Art V	2+0	3,0	SER 807	Individual Ceramic Arts Language Support Courses VII	2+0	2,0
SER 376	Language of Ceramic Art VI	2+0	3,0	SER 808	Individual Ceramic Arts Language Support Courses VIII	2+0	2,0
SER 377	Surface Design I	2+2	4,0	THU 203	Community Services	0+2	3,0
SER 378	Surface Design II	2+2	4,0	TİY 129	Drama	2+1	3,0
SER 379	Clay Wheel Applications I	2+2	4,0	TÜR 157	Writing Skills I	1+2	2,0
SER 380	Clay Wheel Applications II	2+2	4,0	TÜR 158	Writing Skills II	1+2	2,0
SER 392	Ceramic Restoration	2+1	3,0	TÜR 159	Speaking Skills I	1+2	2,0
SER 466	Shaping Sculptural Forms on Wheel Throwing	2+2	4,0	TÜR 160	Speaking Skills II	1+2	2,0
SER 467	Designing and Shaping Functional Forms on Wheel Throwing	2+2	4,0				
SER 471	Ceramic Slips and Technologies	2+0	2,0				
SER 472	Reduction Glazes and Technologies	2+0	2,0				
SER 475	Methods of Ceramic Surface Design I	2+2	4,0				
SER 476	Methods of Ceramic Surface Design II	2+2	4,0				
SER 477	Language of Ceramic Art VII	2+0	2,0				
SER 478	Language of Ceramic Art VIII	2+0	2,0				
SER 479	Technical Decoration Methods III	2+2	4,0				

## GRAPHIC ARTS

Education in Graphic Arts is executed in printmaking, drawing and photographs studios, in computerized laboratories equipped with visual technological materials. Students can research using Internet. There are 3 Lecturers in the department at present. Students are free to use every studio. In the limits of university's and campus possibilities, students are encouraged to attend to trips, to improve mental abilities, increase knowledge and understand the concept of arts. Students must complete summer probation of 72 working days. By the help of this probation, students can learn to handle possible problems which they can come across in their careers.

Graduates from this department, as well as establishing their own advertising agencies, may work as graphic artists in graphics departments of several companies.

## PROGRAM

I. SEMESTER				II. SEMESTER			
BİL 103	Fundamentals of Information Technology	2+2	5,0	FOT 114	Basic Photography	3+1	4,0
GRA 109	Introduction to Visual Communication	2+0	2,5	GRA 124	Graphic Patterns II	2+2	4,0
GRA 123	Graphic Patterns I	2+2	4,0	SAN 116	Basic Design II	6+2	7,5
SAN 115	Basic Design I	6+2	7,5	TİP 110	Typography I	4+2	6,0
TİP 109	Introduction to Typography	4+2	7,0	TÜR 112	Writing and Speaking Skills for Graphic Arts II	3+0	2,0
TÜR 111	Writing and Speaking Skills for Graphic Arts I	3+0	2,0	TÜR 156	Turkish Language II	2+0	2,0
TÜR 155	Turkish Language I	2+0	2,0		<i>Elective Courses (1)</i>	-	4,5
			30,0				30,0

**III. SEMESTER**

GRA 223	Introduction to Graphic Design	6+2	7,5
İNG 157 (Eng)	English I	2+0	2,0
RSM 231	Printmaking I	3+2	5,0
TAR 161	Atatürk's Principles and History of Turkish Revolution I	2+0	2,0
TİP 211	Typography II	4+2	7,0
TÜR 223	Writing and Speaking Skills for Graphic Arts III	2+0	2,0
	<i>Elective Courses (1)</i>	-	4,5
			30,0

**V. SEMESTER**

GRA 313	Graphics Designe II	6+2	7,5
GRA 337	Computer Assisted Typography I	4+2	7,0
GRA 341	Computer Assisted Graphic Design	4+2	7,0
SNT 329	History of Art	2+0	2,0
TÜR 315	Turkish Language Skills for Graphic Arts I	2+0	2,0
	<i>Elective Courses (1)</i>	-	4,5
			30,0

**VII. SEMESTER**

GRA 451	Portfolio Design I	2+2	5,0
TÜR 417	Turkish Language Skills for Graphic Arts III	2+0	2,0
	<i>Departmental Elective Courses (3)</i>	-	18,5
	<i>Elective Courses (1)</i>	-	4,5
			30,0

**DEPARTMENTAL ELECTIVE COURSES**

GRA 433	Packaging Design II	4+1	6,0
GRA 436	Desktop Publishing	5+1	6,5
GRA 437	Graphic Design Project I	6+2	6,5
GRA 438	Graphic Design Project II	6+2	7,5
GRA 439	Computer Visual Assisted Image Processing II	4+1	6,0
GRA 440	Illustration Techniques	3+1	4,5

**ELECTIVE COURSES**

BEÖ 155	Physical Education	2+0	2,0
BİL 221	Computer Assisted Presentation	2+1	3,0
BİL 294	Introduction to Computer Assisted Image Processing	3+1	4,5
EDB 116	Book Talk	2+1	3,0
FOT 105	Advertising Photography	3+1	4,5
FOT 109	Photo-Graphy I	2+2	4,5
FOT 110	Photo-Graphy II	2+2	4,5
FOT 112	Studio Photography	2+2	4,5
GRA 117	Page Design	3+1	4,5

**IV. SEMESTER**

GRA 212	Graphics Design I	6+2	7,5
İNG 158 (Eng)	English II	2+0	2,0
RSM 232	Printmaking II	3+2	5,0
TAR 162	Atatürk's Principles and History of Turkish Revolution II	2+0	2,0
TİP 212	Typography III	4+2	7,0
TÜR 224	Writing and Speaking Skills for Graphic Arts IV	2+0	2,0
	<i>Elective Courses (1)</i>	-	4,5
			30,0

**VI. SEMESTER**

GRA 326	Computer Assisted Typography II	5+1	5,0
GRA 327	History of Graphic Arts	2+0	3,0
GRA 332	Packaging Design I	4+1	5,0
GRA 334	Computer Assisted Visual Image Processing I	6+2	7,5
SNT 352	History of Turkish Art	2+0	3,0
TÜR 316	Turkish Language Skills for Graphic Arts II	2+0	2,0
	<i>Elective Courses (1)</i>	-	4,5
			30,0

**VIII. SEMESTER**

GRA 452	Portfolio Design II	2+2	5,0
TÜR 418	Turkish Language Skills for Graphic Arts IV	2+0	2,0
	<i>Departmental Elective Courses (3)</i>	-	18,5
	<i>Elective Courses (1)</i>	-	4,5
			30,0

GRA 118	Graphics Software I	3+1	4,5
GRA 121	Language of Graphic Design I	2+0	2,0
GRA 122	Language of Graphic Design II	2+0	2,0
GRA 160	Printmaking	3+1	4,5
GRA 161	Individual Graphic Arts Language Support Courses I	2+0	2,0
GRA 162	Individual Graphic Arts Language Support Courses II	2+0	2,0
GRA 210	Sustainable Graphic Design	2+1	3,0
GRA 229	Graphics Software II	3+1	4,5
GRA 233	Language of Graphic Design III	2+0	2,0
GRA 234	Language of Graphic Design IV	2+0	2,0
GRA 253	Applied Graphic Design I	3+1	4,5
GRA 254	Applied Graphic Design II	3+1	4,5
GRA 263	Individual Graphic Arts Language Support Courses III	2+0	2,0
GRA 264	Individual Graphic Arts Language Support Courses IV	2+0	2,0
GRA 323	Team Work and Educational Games	3+1	4,5
GRA 335	Language of Graphic Design V	2+0	2,0

GRA 336	Language of Graphic Design VI	2+0	2,0	GRA 468	Individual Graphic Arts Language Support Courses VIII	2+0	2,0
GRA 365	Individual Graphic Arts Language Support Courses V	2+0	2,0	KÜL 199	Cultural Activities	0+2	2,0
GRA 366	Individual Graphic Arts Language Support Courses VI	2+0	2,0	RSM 217	Painting	2+1	3,0
GRA 407	WEB Graphic Design	2+2	4,5	SAN 155	Hall Dances	0+2	2,0
GRA 413	Calligraphy I	2+2	4,5	SER 117	Drafting Techniques	2+0	2,0
GRA 416	Engraving	2+2	4,5	TAR 356	History of Culture	2+0	3,0
GRA 418	Calligraphy II	2+2	4,5	THU 203	Community Services	0+2	3,0
GRA 428	Digital Production Techniques in Graphic Design	3+0	4,5	TİP 401	Advanced Typography I	2+3	4,5
GRA 444	Computer Assisted Illustration Techniques	3+1	4,5	TİP 402	Advanced Typography II	2+3	4,5
GRA 447	Language of Graphic Design VII	2+0	2,0	TİY 129	Drama	2+1	3,0
GRA 448	Language of Graphic Design VIII	2+0	2,0	TÜR 193	Writing Skills I	1+2	3,0
GRA 467	Individual Graphic Arts Language Support Courses VII	2+0	2,0	TÜR 194	Writing Skills II	1+2	3,0
				TÜR 195	Speaking Skills I	1+2	3,0
				TÜR 196	Speaking Skills II	1+2	3,0

## DEPARTMENT OF ARCHITECTURE AND URBAN PLANNING

### PROGRAM IN ARCHITECTURAL DRAFTING

Students are trained to assist architect and engineer groups as technical assistants who can draw construction projects in computer and make model in this programme. Three lecturers are working in this programme at present.

Students execute their studies in drawing workshops through visual and technological materials. Students prepare their projects by using drawing software in equipped computer laboratories.

Students must complete summer probation of 40 working days. Graduates from this programme may work private engineering and architecture offices and public department related construction.

### PROGRAM

I. SEMESTER				II. SEMESTER			
BİL 103	Fundamentals of Information Technology	2+2	5,0	BİL 172	Introduction to Computer Aided Design	2+1	3,0
İNG 157 (Eng)	English I	2+0	2,0	İNG 158 (Eng)	English II	2+0	2,0
MYR 129	Architectural Presentation	2+2	4,0	MYR 124	Building Construction II	2+2	4,0
MYR 131	Building Construction I	2+1	3,0	MYR 130	Introduction to Architecture and Project	2+3	5,0
MYR 141	Professional Language I	3+0	2,0	MYR 142	Professional Language II	3+0	2,0
TAR 161	Atatürk's Principles and History of Turkish Revolution I	2+0	2,0	TAR 162	Atatürk's Principles and History of Turkish Revolution II	2+0	2,0
TÜR 109	Writing and Speaking Skills for Architectural Drafting I	3+0	2,0	TÜR 110	Writing and Speaking Skills for Architectural Drafting II	3+0	2,0
TÜR 155	Turkish Language I	2+0	2,0	TÜR 156	Turkish Language II	2+0	2,0
	<i>Departmental Elective Courses (1) -</i>		3,0		<i>Departmental Elective Courses (2) -</i>		5,0
	<i>Elective Courses (2)</i>		5,0		<i>Elective Courses (1)</i>		3,0
			30,0				30,0

III. SEMESTER				IV. SEMESTER			
BİL 803	Computer Aided Drafting I	2+2	5,0	BİL 808	Computer Aided Drafting II	2+3	6,0
MYR 227	Reinforced Concrete Practice Project I	2+2	3,0	MYR 228	Reinforced Concrete Practice Project II	2+2	3,0

MYR 233	Construction and Building Elements I	2+0	2,0	MYR 240	Modeling II	2+2	3,0
MYR 239	Modeling I	2+2	3,0	MYR 245	Architectural Practice Project II	2+3	6,0
MYR 241	Architectural Practice Project I	2+2	5,0	MYR 246	Construction and Building Elements II	2+0	2,0
MYR 253	Professional Language III	3+0	2,0	MYR 254	Professional Language IV	3+0	2,0
TÜR 217	Writing and Speaking Skills for Architectural Drafting III	3+0	2,0	TÜR 218	Writing and Speaking Skills for Architectural Drafting IV	3+0	2,0
	<i>Departmental Elective Courses (2)</i>	-	6,0		<i>Departmental Elective Courses (2)</i>	-	6,0
	<i>Elective Courses (1)</i>	-	2,0				
			<u>30,0</u>				<u>30,0</u>

#### DEPARTMENTAL ELECTIVE COURSES

GRA 221	Graphics and Animation	2+1	3,0
MYR 107	Sketch Techniques	2+0	3,0
MYR 133	Building Materials I	2+0	3,0
MYR 134	Building Materials II	2+0	3,0
MYR 137	Color Information	1+2	3,0
MYR 139	Building Terminology I	2+0	3,0
MYR 140	Building Terminology II	2+0	3,0
MYR 217	Surveying	2+1	3,0
MYR 218	Introduction To Computer Aided Visual Commitment	2+1	3,0
MYR 235	Project in Basic Mechanical Installation	2+0	3,0
MYR 236	Analysis of System and Design	2+2	3,0
MYR 237	Project in Basic Electric Installation	2+0	3,0
MYR 238	Computer Aided Architectural Presentation Techniques	2+1	3,0
MYR 247	Interior Decoration I	2+0	3,0
MYR 248	Interior Decoration II	2+0	3,0
MYR 251	Building Information I	2+1	3,0
MYR 252	Building Information II	2+1	3,0
PPT 118	Perspective	2+1	3,0

#### ELECTIVE COURSES

BEÖ 155	Physical Education	2+0	2,0
BİL 221	Computer Assisted Presentation	2+1	3,0
BİL 296	Organizational Communication and Collaboration	2+1	3,0

EDB 116	Book Talk	2+1	3,0
İSN 106	Organizational Communication	2+0	2,0
KÜL 199	Cultural Activities	0+2	2,0
MAT 811	Mathematics I	2+1	3,0
MAT 812	Mathematics II	2+1	3,0
MAT 813	Architectural Drafting Individual Support Mathematics I	2+0	2,0
MAT 814	Architectural Drafting Individual Support Mathematics II	2+0	2,0
MYR 122	Research Techniques and Seminar	2+1	3,0
MYR 143	Individual Arthitectural Drafting Language Support Courses I	2+0	2,0
MYR 144	Individual Arthitectural Drafting Language Support Courses II	2+0	2,0
MYR 249	Design for All	2+1	3,0
MYR 255	Individual Arthitectural Drafting Language Support Courses III	2+0	2,0
MYR 256	Individual Arthitectural Drafting Language Support Courses IV	2+0	2,0
SAN 155	Hall Dances	0+2	2,0
THU 203	Community Services	0+2	3,0
TÜR 193	Writing Skills I	1+2	3,0
TÜR 194	Writing Skills II	1+2	3,0
TÜR 195	Speaking Skills I	1+2	3,0
TÜR 196	Speaking Skills II	1+2	3,0

## DEPARTMENT OF COMPUTER USE

### PROGRAM IN COMPUTER OPERATOR TRAINING

Education in Programme of Computer Operator Training is executed since 1993. Now, 2 lecturers are working in this programme. Students must complete a summer probation of at least 40 working days.

Students are educated computer, internet, printer, scanner and datashow equipped laboratories.

Graduates of this programme can work as an operator in computer used jobs.

## PROGRAM

I. SEMESTER				II. SEMESTER			
BOP 103	Word Processors	2+2	3,0	BOP 110	Introduction to Algorithm and Programming	2+1	3,0
BOP 107	Research Techniques and Seminar	3+1	3,0	BOP 112	General and Technical Communication	2+1	3,0
BOP 109	Fundamentals of Information Technology	2+2	4,0	BOP 114	Typesetting	2+2	4,0
BOP 111	Operating Systems	2+1	2,0	BOP 118	Professional Language for Computer Operator Training II	3+0	2,0
BOP 113	Computer Assisted Presentation	2+2	3,0	İNG 158 (Eng)	English II	2+0	2,0
BOP 117	Professional Language for Computer Operator Training I	3+0	2,0	İSN 108	Organizational Communication	2+0	3,0
İNG 157 (Eng)	English I	2+0	2,0	TÜR 116	Writing and Speaking Skills for Computer Operator Training II	3+0	2,0
TÜR 115	Writing and Speaking Skills for Computer Operator Training I	3+0	2,0	TÜR 156	Turkish Language II	2+0	2,0
TÜR 155	Turkish Language I	2+0	2,0		<i>Departmental Elective Courses (2)</i>	-	6,0
	<i>Departmental Elective Courses (2)</i>	-	5,0		<i>Elective Courses (1)</i>	-	3,0
	<i>Elective Courses (1)</i>	-	2,0				
			30,0				30,0

III. SEMESTER				IV. SEMESTER			
BOP 201	Database Systems and Programming I	3+2	6,0	BOP 202	Database Systems and Programming II	3+2	6,0
BOP 205	Computer Network Systems	3+1	4,0	BOP 206	Spreadsheets	3+2	6,0
BOP 219	Professional Language for Computer Operator Training III	3+0	2,0	BOP 212	Computer Hardware	2+0	2,0
GRA 225	Graphics and Animation	2+2	5,0	BOP 214	Applications of Authoring Languages in the Internet Environment	2+2	5,0
TAR 161	Atatürk's Principles and History of Turkish Revolution I	2+0	2,0	BOP 220	Professional Language for Computer Operator Training IV	3+0	2,0
TÜR 227	Writing and Speaking Skills for Computer Operator Training III	3+0	2,0	TAR 162	Atatürk's Principles and History of Turkish Revolution II	2+0	2,0
	<i>Departmental Elective Courses (2)</i>	-	6,0	TÜR 228	Writing and Speaking Skills for Computer Operator Training IV	3+0	2,0
	<i>Elective Courses (1)</i>	-	3,0		<i>Departmental Elective Courses (1)</i>	-	3,0
			30,0		<i>Elective Courses (1)</i>	-	2,0
							30,0

### DEPARTMENTAL ELECTIVE COURSES

BOP 105	Organizational Communication and Collaboration	2+0	3,0
BOP 115	Basic Design Principles	2+1	2,0
BOP 211	Computer Aided Presentation Applications	2+1	3,0
BTP 237	Graphics Applications I	2+1	3,0
BTP 238	Graphics Applications II	2+1	3,0
MAT 241	Mathematics I	2+0	2,0
MAT 242	Mathematics II	2+0	2,0
MAT 245	Basic Mathematics I	2+0	3,0
SOS 114	Office Personnel Behaviors	2+0	2,0

### ELECTIVE COURSES

BEÖ 155	Physical Education	2+0	2,0
BOP 119	Individual Computer Operator Language Support Courses I	2+0	2,0

BOP 120	Individual Computer Operator Language Support Courses II	2+0	2,0
BOP 207	Visual Basic Programming	3+1	3,0
BOP 209	Accounting Techniques and Commercial Softwares I	4+0	4,0
BOP 210	Accounting Techniques and Commercial Softwares II	2+2	4,0
BOP 221	Individual Computer Operator Language Support Courses III	2+0	2,0
BOP 222	Individual Computer Operator Language Support Courses IV	2+0	2,0
BTP 233	Applied Graphics III	2+1	3,0
BTP 235	Applications of Computer Assisted Drawing I	2+1	3,0
EDB 116	Book Talk	2+1	3,0
FOT 114	Basic Photography	3+1	4,0
GRA 158	Graphic Expression	2+0	2,0

KÜL 199	Cultural Activities	0+2	2,0	THU 203	Community Services	0+2	3,0
MAT 246	Basic Mathematics II	2+0	3,0	TÜR 193	Writing Skills I	1+2	3,0
MAT 809	Computer Operator Individual Support Mathematics I	2+0	2,0	TÜR 194	Writing Skills II	1+2	3,0
MAT 810	Computer Operator Individual Support Mathematics II	2+0	2,0	TÜR 195	Speaking Skills I	1+2	3,0
SAN 155	Hall Dances	0+2	2,0	TÜR 196	Speaking Skills II	1+2	3,0
SER 223	Shaping Clay	2+1	2,0				

## INTENSIVE TURKISH PROGRAM

### PROGRAM

#### BEGINNER LEVEL

HZT 101	Basic Linguistic Skills	10+5	12,5
HZT 102	Reading Comprehension	4+0	4,0
HZT 103	Writing	4+0	4,0
HZT 104	Spoken Turkish	4+0	4,0
HZT 105	Mathematical Reasoning	3+0	3,0
		—	27,5

#### INTERMEDIATE LEVEL

HZT 201	Basic Linguistic Skills	10+5	12,5
HZT 202	Reading Comprehension	4+0	4,0
HZT 203	Writing	4+0	4,0
HZT 204	Spoken Turkish	4+0	4,0
HZT 205	Mathematical Reasoning	3+0	3,0
		—	27,5

#### ADVANCED LEVEL

HZT 301	Basic Linguistic Skills	10+5	12,5
HZT 302	Reading Comprehension	4+0	4,0
HZT 303	Writing	4+0	4,0
HZT 304	Spoken Turkish	4+0	4,0
HZT 305	Mathematical Reasoning	3+0	3,0
		—	27,5

### COURSE CONTENTS

#### **BEÖ 155 Physical Education** **2+0 2,0**

Definition of Physical Education and Sports; Aims, Disadvantages of Inactive Life; Various Activities for Physical Education; Recreation; Human Physiology; First Aid; Sports Branches: Definition, Rules and Application; Keep Fit Programs.

#### **BİL 103 Fundamentals of Information Technology** **2+2 5,0**

Introduction to Information Technology; Computer Hardware; General Structure of a Computer; Output and Input Devices of a Computer; Computer Software: Software of Operating System: What is an operating system?, Types of operating systems, Functions of operating systems; Application Software: Word-processing software, Reporting and spreadsheet software, Software for drawing, Presentation software; Data Communication and Computer Networks: Using e-mail; Use of the Internet.

#### **BİL 172 Introduction to Computer Aided Design** **2+1 3,0**

Definition and Aim of Autocad 2000: Coordinate System; Command Line; Trim; Erase; Save; Save As; Command Offset; Mirror; Chamfer; Fillet; Move; Rotate; Scale; Stretch; Lengthen; Extend; Dimension; Polygon; Circle; Rectangle; Ellipse; Point; Hatch; Explode; Inquiry; Option Properties: Make Block; Insert Block; External References; Image; Format; Jpeg; Bmp; Export; Plot ; Plot Preview

#### **BİL 221 Computer Assisted Presentation** **2+1 3,0**

Installation of MS PowerPoint on MAC and PC Computers; Menu commands; Tips for effective presentations; Preparation for presentations; Using DataShow and Overhead Projectors; Student Presentations with DataShow and MS PowerPoint.

#### **BİL 294 Introduction to Computer Assisted Image Processing** **3+1 4,5**

Definition of Computer; General Structure and Use of Computer, Computer in graphic design, Introduction to



Machintosh, Introduction to Adobe Photoshop; Menu Commands, tool Command, Coloring and Color Panels, Color selections, painting and Processing; Painting Tools, Brush Shapes and Permeability, Selecting and Masking, Text Effects, Filtering techniques, Exchange among other Programs, Using the Scanner; Application stages in different scanned photographs.

**BİL 296 Organizational Communication and Collaboration** 2+1 3,0

Communication softwares, Maintaining effective interaction with other users; Programming appointments and duties; Filing personel and organizational information; Teaching how to use electronic mail and calender; Arranging Outlook; Using e-Mail; Personalizing the calander file; Using Adress book, aranging files; Adjusting views and images; Building a virtual network for Outlook; Saving Forms, Opening and publishing.

**BİL 803 Computer Aided Drafting I** 2+2 5,0

Introducing Surface and Solid Modeling; View and Viewport Menus and their Commands; Surface Menu and its Commands; Solid Menu and Commands; Thickness; Elevation and Extrude Commands; Introducing Use of Solid Editing Menu and Commands; UCS and UCS II Menus and their Commands; 3D Orbit and Visual Style Menus and Their Commands; Making Models of Building Envelope and Building Elements :Wall, Frame, Roof; Creating Furnishing and Inserting into a Modeling File; Creating Furnishing and Building Elements of Interior and Inserting into a Modeling File.

**BİL 808 Computer Aided Drafting II** 2+3 6,0

Defining Surface and Solid Modeling; Introducing Object and Object Modifiers; Transferring a DXF or DWG AutoCAD File to Modeling Programs; Inserting Predefined Furnishing Elements to Modeling Programs; Defining Camera and Camera Properties; Defining Light and Shade Properties; Determining Surficial Characteristics of Materials; Assigning a Picture to Background; Determining the Viewpoint and Importance of the Viewpoint; Previewing; Locating the Model in a Site Using Landscape and Urban Equipment; Concept of Render Menu; Preparing a Camera Path of Animation.

**BOP 103 Word Processors** 2+2 3,0

Overview of Word Processors and Introduction to MS Word: Training in MS Word for Windows and MS Word for Mac; Symbols used in MS Word; Menu Commands; Creating and Designing Documents; Adding Text and Objects in Documents; Creating and Formating Tables; Using WordArt; Connecting Word Documents; Adding WEB connection to Word Document; Transferring Text and Pictures from Different Programs; Transferring Text and Pictures from the Internet.

**BOP 105 Organizational Communication and Collaboration** 2+0 3,0

Communication Softwares; Maintaining effective interaction with other users; Programming appointments

and duties; Adding personal and organizational information; Teaching how to use electronic mail and calender; Arranging Outlook; Using e-Mail; Personalizing the calender file; Using Adress Book, aranging files; Adjusting views and images; Building a virtual network for Outlook; Saving Forms, Opening and Publishing.

**BOP 107 Research Techniques and Seminar** 3+1 3,0

Research Techiques: Importance of Research; Basic Concepts and Techniques of Data Collection; Selection of research Topics; Following Topical Developments in Computer Technology: Topic Selection on the Basis of Technological Innovations in the Field; Resources; Following relevant publications such as boks and periodicals; Using the Internet and library; Reportin and Presenting Research Topics.

**BOP 109 Fundamentals of Information Technology** 2+2 4,0

Definition of Computer: General Structure of a Computer; Output and Input Devices of a Computer; Computer Types; Classification of Computers; Computer Applications; Computer Software; Operating Systems and their characteristics; Functions of Operating Systems; Windows Operating System; Using Windows Desktop; Shortcuts; General Windows Operations; Windows File and Index Operations; Personal Desktop Operations; Reorganization of Desktop Environment; Formatting Documents; Working on Network Files; Working on and Researching Internet Documents; Multimedia; Remote Help and Using Remote Desktop; Personalizing Security Options; Back-up Systems and Repairing the System.

**BOP 110 Introduction to Algorithm and Programming** 2+1 3,0

Using Computers for Problem Solving: Definition and Analysis of a Problem; Algorithms; Concepts of Variable and Constant; Flowcharts; Encoding and Testing the Solution Examples for Algorithm Applications; System of Programming; Programme and Programme Language; Using Programme Environment and rule of programming; Variables; Loops; Arrays; Sub Programs.

**BOP 111 Operating Systems** 2+1 2,0

Computer Software: Defining, types of software; softwares in the operating systems; Operating Systems: Defining DOS, Windows, Unix and OSX; Windows Operating System: Desktop operations, Start commands, Control P anel commands, network connections, user definations; Students to make application and presentation.

**BOP 112 General and Technical Communication** 2+1 3,0

Definations and Types of Communications; Definition of Petition and Writing Sample Petitions; Definition and Types of Business Letters; Order Letters, Sales Letters, Payment Letters, Recommendation Letters, Application Letters, Reguest Letters, Samples; Formel Letters; Order of Information in a formal letter, Samples; Sending Faxes; Note Taking; Summarizing; Report Types according to

their Topic and Format; Points to consider when writing a report; Writing CV.

**BOP 113 Computer Assisted Presentation 2+2 3,0**

What is PowerPoint?; Menu commands; Tips for effective presentations; Preparation for presentations ; Using DataShow and Overhead Projectors; Students Presentations with DataShow and PowerPoint.

**BOP 114 Typesetting 2+2 4,0**

Defining Desktop Publishing; Defining Terms of Newspaper and Magazine with Examples; Comparing design of Newspaper and Magazine; Introducing QuarkXPress is the Most Used Page Design Programme; Sharing Menu Commands of QuarkXPress; Applying QuarkXPress with Different Examples of Newspaper and Magazine; At the end of the term Typesetting and Printing School Newspaper with Class.

**BOP 115 Basic Design Principles 2+1 2,0**

Design; Design Principles: Repetition, Conformity, Contrast, Hierarchy, Sovereignty, Balance, Unity, Rhythm, Emphasis; Design Elements: Dot, Line, Light and shade, Stain, Form, Texture, Orientation, Size, Structure, Color, Color wheel, Color effects; Different Materials and Presentation Techniques; Natural and Artificial Materials: Decomposition, Breaking, Abstraction, Re-Interpretation.

**BOP 117 Professional Language for Computer Operator Training I 3+0 2,0**

Presentation of Basic-Level Vocational Terminology; Examining the General Working Principles of Computer: The concept of computer, Computer architecture; Examining Computer Hardware and Software: Hardware, Software, Operating systems, Basic units of computer hardware; Description of Computer Viruses and Virus Protection Methods: The concept of virus, Virus protection methods, Antivirus programs.

**BOP 118 Professional Language for Computer Operator Training II 3+0 2,0**

Presentation of Intermediate Vocational Terminology; Computer and Health: Examining the effects of computer on health, Points to consider when using a computer; Internet: The concept of Internet, Hardware and software needed to connect to the Internet, Rules to consider when using Internet, Internet addiction.

**BOP 119 Individual Computer Operator Language Support Courses I 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of Computer Operator: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**BOP 120 Individual Computer Operator Language Support Courses II 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of Computer Operator: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**BOP 201 Database Systems and Programming I 3+2 6,0**

Definition of Databases; Introduction to Access (a database programme); Definitions of Menu Commands in Access; Characteristics of Tables in Access; Creating Tables and Implementing Required Applications; Creating a Query; Using Mathematical Calculations in Queries; Establishing a Connection Between Queries and Tables; Creating Forms in Access; Applications concerning the Use of Functions; Importing and Exporting Data; Using Buttons and Scripts.

**BOP 202 Database Systems and Programming II 3+2 6,0**

Definitions of Database Systems: Sample Database Systems: Introduction to File Maker Pro: Menu Commands of File Maker Pro; Mathematical Calculations in Databases; Functions of Databases; Applications Using Functions in Databases; Creating a Layout; Information Flow Among Layouts; Importing and Exporting Data; Using Buttons and Scripts.

**BOP 205 Computer Network Systems 3+1 4,0**

Definitions and Goals of Computer Networks: Computer Mediated Communications; Data Communication Methods and the Required Hardware; Devices used in Computer Networks; World Wide Networks; Data Carriers; Interconnections Used in Data Communications; Fiber Optic Cables; Coaxial Cables; Microwaves; Satellites; Local Area Networks; Typology of Local Area Networks; Protocols of Local Area Networks; Applications of Local Area Networks; the Ethernet Local Networks; Ethernet Protocol; Local Area Network Management; Wide Area Networks; Metropolitan Networks; the Internet.

**BOP 206 Spreadsheets 3+2 6,0**

MS Excel for Mac and PC: Overview of Spreadsheets; Introduction to Excel; Excel Menu Commands; Excel Sheets and the Use of Mathematical Applications on These Sheets; Applications of Spreadsheets; Use of Functions in Sheets; Excel Functions; Information Flow among Excel Sheets; Connections among Sheets; Connections among Excel Sheets on PCs and Macs; Excel Graphics; Use of Databases in Excel; Introduction to Using Macros.

**BOP 207 Visual Basic Programming 3+1 3,0**

Introduction to Visual Basic Programming; Data Types and Operators of Visual Basic Programming Language; Control Expressions; Loops; Sub-programmes; Control objects; Properties; Cases and Methods; Adding Graphics and Special Effects; Internet Programming with Visual Basic;

Concepts of Data Structure and Applications in Visual Basic.

**BOP 209 Accounting Techniques and Commercial Softwares I 4+0 4,0**

The Importance of Accounting as an Information System; Its Function and Operation; Informing about Documents and Books; Accounts and Definition of an Account Plan; Creating Account Plans; Information about Account Plans; Operation of Balance Accounts; Definition and Operation of Income and Outcome; Reports; Inventory Operations; Definition and Preparation of a Balance and an Income Sheet; Definition of Check-Voucher; Check-Voucher Actions; Definition of Banking Operations; Banking Actions.

**BOP 210 Accounting Techniques and Commercial Softwares II 2+2 4,0**

Accounting Software; Introduction of one of the Commercial Softwares: Creating a Company and Preliminary Operations in Selected Software; Opening Current Account Cards; Creating Inventory Cards and Establishing the Connections Between All Cards and Accounting Cards; Creating Bank Cards and Establishing Required Connections; Invoices and Accounting Register; Conducting Banking Operations; Registering Check-Voucher Operations to Accounting Records; Getting Reports in Selected Software.

**BOP 211 Computer Aided Presentation Applications 2+1 3,0**

Presentation Software: Introducing Presentation Softwares, students' prior knowledge about the use of PowerPoint; submit the information about the most commonly used presentation software; Presentation of Video: introducing video softwares, examining video presentations; MovieMaker: Installing MovieMaker, creating new video file, adding audio-film-text and picture, organizing transition of slays, adding animations of file, saving file; Presentation Of Students Works.

**BOP 212 Computer Hardware 2+0 2,0**

Following previous learning about Computer Hardware; Analysis of System and its Units; Disassembling the Computer and Explaining its Ports; Input and Output Hardwares and Their Ports; Reassembling the Computer; Installing Operating System and the Software; Fundamental Device Configuration; Input-Output Units and Interfaces; Installation of Computer Systems; Maintenance-Repair and Malfunctioning; Fundamental Trouble Analysis; Establishing Internet Connection.

**BOP 214 Applications of Authoring Languages in the Internet Environment 2+2 5,0**

Following Previous Learning About Accessing Internet And Internet Tools; Operational Structure of the Internet and Hardware Required for Internet Connections; E-Mail; IRC and Applications of Audio-Visual Connections; Common Authoring Languages, and Basic Concepts and Principles Regarding Their Application; FrontPage Software:

Installing FrontPage, Menu Commands; WEB Page Design; Publishing WEB Page on the Internet.

**BOP 219 Professional Language for Computer Operator Training III 3+0 2,0**

Presentation of Advanced Vocational Terminology: Uses of Computers: Personal uses of computers, Usage of computers in communication, Usage of computers in research and engineering, Usage of computers in education, Usage of computers for entertainment; Survey on the Use of Computers: The definition of survey, Target group, Preparing survey questions, Administration of survey, Evaluating survey results.

**BOP 220 Professional Language for Computer Operator Training IV 3+0 2,0**

Presentation of Highly Advanced Vocational Terminology: Recent Developments in Information and Communication Technologies (ICTs): Definition of ICTs, Researching and presenting recent developments in ICTs; Computer Hardware: Researching and presenting about hardware units of computer; Computer Software: Researching and presenting about software.

**BOP 221 Individual Computer Operator Language Support Courses III 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of Computer Operator: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**BOP 222 Individual Computer Operator Language Support Courses IV 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of Computer Operator: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**BTP 233 Applied Graphics III 2+1 3,0**

Introduction to Technical Drawing and Shaping Programme Microsoft Visio; Creating Diagram; Connecting Shapes; Adding text to Shapes and Diagrams; Arranging Text; Web Applications; Using Visio with other programmes; Saving And Printing; Creating Flowchart; Making Organization Schema; Block Diagrams; Making Project Timing; Style And Colour Setting; Accommodate Shapes; Creating Building Plan and Office Accommodation; Privatize Shapes and Templates; Creating Map Diagram; Preparing Poster in Visio; Making Forms.

**BTP 235 Applications of Computer Assisted Drawing I 2+1 3,0**

Definition of Computers: Purpose of Auto Cad; Introduction To Menus; Drawing Stages; Use of Two

Dimensional Drawing Commands; Use of Coordinate Systems In Line Command; Use of Vectors ; Plane; Erase; Zoom; Multilane; Pan; Circle; Trim; Extend; Drawing Aid; Grid; Snap; Donut; Offset; Ellipse; Polygon; Arc; Object Snap: Center Point; End Point; Intersection Point; Nearest; Node; Perpendicular Point; Target; Layer Control; Mirror; Rotate; Fillet; Chamfer; Break; Stretch; Array; Explode; Scale; Inquiry; Insert; Hatch; Change; Introduction To Three Dimensional Drawing; Applications.

**BTP 237 Graphics Applications I** 2+1 3,0

Definition of computer; General Structure and Computer Use; Computers for Graphic Conceptions; Introduction to Macintosh; Introduction to Vector Program; Adobe Illustrator; Menu Commands; Tool Commands; Drawing Properties; Graphic Table Drawing; Relation to Other Programs; Filters; Using the Scanner; Pictures, Forming New Concepts Using Both Photographs and Texts.

**BTP 238 Graphics Applications II** 2+1 3,0

Definition of Computer; General Structure and General Computer Use in Graphic Conceptions; Introduction to Macintosh; Introduction to a Vector Programs Adobe Freehand; Menu commands, Tool commands, Properties of point and drawing, Coloring and color panels, Selecting colors, Dimension and plan properties, Relations to other programs, Filters, Writing areas, Page order, Using the scanner; Table of preferences, Picture; Forming New Concepts Using Both Photographs and Texts.

**DJT 201 Basic Design in Digital Media I** 2+2 4,0

Installation of Adobe Photoshop on Mac and PC Computers; Definition of Adobe Photoshop; Menu Commands; Tools Commands and Practicing Simple Designs.

**DJT 202 Basic Design in Digital Media II** 2+2 4,0

Elements of Basic Design: Dot, line, spot, texture, color and contrast; Teaching of Basic Design; Installation of Adobe Photoshop on Mac and PC Computers; Practicing Original Design.

**DJT 301 Introduction to Three Dimensional Design in Digital Environment I** 2+2 3,0

Computer-Aided Studies to Develop Perception of Three Dimensions; Applications Intended to Learn and Develop Modeling; Learning and Understanding the Use of Program Interface; Adaptation of Fundamental Design Knowledge to the Virtual Environment and Basic Exercises; Comparison of Form and Composition Relations; Geometric and Perspective Perceptions and Proportion Calculations Using Computer; Drawing Exercises Related to Fundamental Design Principles; Working with Lines, Points, Surfaces and solids; Using Geometric Elements Together and Forming Surfaces.

**DJT 302 Introduction to Three Dimensional Design in Digital Environment II** 2+2 3,0

Item Scaling; Dimensioning and Coloring; Use of Layers and Introduction to Modeling Commands; Points to

Consider in Product Modeling; Basic Surface Knitting Techniques; Exercises of Product Design in Virtual Environment; Preparing Solid Forms by Knitting Surfaces for Product Design in Virtual Environment; Making Solids Suitable for Ceramic Product Forms; Forming Surfaces by Cutting, Removing, Rotating, Scaling, Extending; Use of Commands such as Dimensioning.

**DJT 303 Basic Design in Digital Media III** 2+2 3,0

Introduction to Vector Programs; Adobe Freehand; Menu commands, Tool commands; Properties of Point and Drawing, Coloring and Color panels; Selecting colors; Dimension and Plan Properties; Relation to other Programs; Filters; Page order; Using the Scanner; Practice.

**DJT 304 Basic Design in Digital Media IV** 2+2 3,0

Introduction to Vector Programs; Adobe Illustrator; Menu commands, Tool commands; Properties of Drawing; Selecting Colors; Dimension and Plan Properties; Relation to other Programs; Filters; Page order; Using the scanner; Practice.

**DJT 401 Three Dimensional Design in Digital Environment I** 2+2 6,0

Product Modeling and Design with Rhinoceros 3D Modeling Software; Scaled Calculations Suitable for Production; Inner and Outer Surface Analysis for Product Modeling; Product Development; One-to-One Modeling and Preparations for Presentation; Adaptation and Modeling of Free Ceramic Design Works for the Computer Environment; Design, Modeling and Presentation of Tableware; Preparing Presentations and Coloring.

**DJT 402 Three Dimensional Design in Digital Environment II** 2+2 6,0

Exercises with Rhinoceros 3D Software for Product Modeling in the Computer Environment; Applications for the Development of Geometric and Perspective Perception of the Objects Modeled in Virtual Environment; Advanced Modeling Techniques; Improvement on Production Techniques; Designing Sanitaryware; Improving the Design; Dimensioning; Coloring and Modeling; Modelling of Analysis-based Products Developed for CAD-CAM Production; Gaining Experience on Modeling Methods Suitable for Mass Production; Presentation of Models Designed for Production.

**EDB 116 Book Talk** 2+1 3,0

Various Literature: Reading, one-to-one or group conversations; Reading Comprehension Strategies: Building background knowledge, Recognizing words in texts, Vocabulary development, Silent reading, Oral reading, Reading comprehension questions, Predicting; Conversation Strategies: Initiating a conversation, Turn taking, Closing a conversation; Introducing a topic, Continuing the conversation, Discourse abilities; Effective Use of Written and Spoken Language Skills.

**FOT 105 Advertising Photography** 3+1 4,5

Photography for Advertising: Photograph design with small format film, Monochrome photography and graphic applications; Evaluation of Images; Studio Photography: Still-life photography, Portrait lighting and shooting techniques, Reproduction, Close-up shooting, Multiple-exposure, Combining different light sources; Use of Medium and Large Format Cameras; Format Characteristics and Images Quality.

**FOT 109 Photo-Graphy I** 2+2 4,5

Graphic approaches in taking photographs: Camera, Lenses, Choosing the apparatus, Types of films, Sensitivity and format differences of films, Monochrome and color films, Development process; Darkroom applications, Contrasting (orthochromatic film), Producing the photograph for print-press, Graphic applications; Combining the images, Printing control, Adding type and figures into the photograph, Reversal process, Cropping some details by enlargement, Abstract graphic design studies, Photogram applications.

**FOT 110 Photo-Graphy II** 2+2 4,5

Basic color photography: Light and color, the physical properties and the effects on color emulsion. Different light sources, Ambient and artificial light sources, Illumination types, Film and exposure, Formats differences of emulsions, the different ways of light measuring (reflected and incident Light), Photographic equipment depending on taking photographs; nature, sport and documentary photography, Taking photograph in the low light conditions, Reproduction and close-up photography techniques.

**FOT 112 Studio Photography** 2+2 4,5

Studio Photography: Studio apparatus, Studio set up for different purposes, artificial light sources (tungsten-halogen lamps), Electronic flash systems, Exposure measurement; Studio Cameras: Medium- format cameras, Large-format cameras; Developing and Printing Techniques of Color Films; Developing and Printing Techniques of Slide Films.

**FOT 114 Basic Photography** 3+1 4,0

A short history of photography: Cameras; 35 mm, Medium and Large Format Cameras; Lenses; Normal Focus, Wide Angle, Narrow Angle (Tele) and Zoom Lenses; Exposure Control Mechanisms; Diaphragm, Shutter; Stop Motion; Depth of Field; Film Types according to formats, Film Types according to light-power sensitivity, Film Types according to color sensitivity, Contrast, Clearness and Grain Structure; Light: Light Measuring, different ways of light measuring, Exposure modes, Filters and asset accessories; Image design; Developing and printing black and white films.

**GRA 109 Introduction to Visual Communication** 2+0 2,5

Concepts in Graphic Design; Semiology: sign, symbol, icon; graphic design and production: Brain storming, Improving visual perception, System of a graphic design

agency, Work principles; Seeing; Communication; Types of Communication: Personal communication, Interpersonal communication, Mass communication.

**GRA 117 Page Design** 3+1 4,5

Definition of Typesetting and Its Applications: Uses of Typesetting, Newspapers and Sections of a Newspaper, Magazines and Sections of Magazines, Posters and Announcements; Software and Hardware Used for Typesetting; Typsetting Software; the Most Common Typesetting Software in Turkey: QuarkXPress; Using QuarkXPress; Menu Commands of QuarkXPress; Transferring Articles and Pictures Taken from Different Environments to QuarkXPress; Typsetting Samples; Page Layout in Newspapers; Publishing a Periodical Newspaper; Page Layout in Magazines; Creating a Sample Magazine.

**GRA 118 Graphics Software I** 3+1 4,5

Definition of Computer; Use of Computers in Graphics; Introduction to Macintosh; Introduction to Pixel Base Programs; Adobe Photoshop; Menu Commands; Tool Commands; Coloring and Color Panels; Selection of Colors; Processing and Painting: Painting Tools, Brush Shapes and Permeability; Selecting and Masking; Text Effects; Filtering Techniques; Dimension and Plan Properties; Exchange with Other Programs; Using the Scanner; Stages of application on Different Scanned Photographs.

**GRA 121 Language of Graphic Design I** 2+0 2,0

Art of Graphics; Use of Computers in Graphic Design; Design; Problem; Information Gathering; Analysis; Options; Evaluation; Aesthetic Elements of Expression in Art: Style, Means of Expression, Rhythmh, Gesture, Simplicity, Harmony; Aesthetic Elements of Effect in Art: Beautiful-ugly, Righ-wrong, Lovely-unlovely, Absurd, Funny-serious, Ordinary-extraordinary, Cheap; divine-inaccessible-ordinary, primitive; Terminology of Graphic Design.

**GRA 122 Language of Graphic Design II** 2+0 2,0

Internal Aesthetic Elements of Art: Expression, Signification, Function; Expression Techniques of Art: Dot, Line, Types of line, Stain, Types of stain; External Aesthetic Elements of Art: Form and Shape, Light-shadow, Color, Texture, Direction, Espas, Perception; Terminology of Graphic Design.

**GRA 123 Graphic Patterns I** 2+2 4,0

Line: Straight Line, Curved line, Spiral line, Combination of lines, Aesthetic information about lines, Movement lines of human body; Body Drawing: Cubist body form, Geometric body forms; Portrait Drawing: Portrait sketching; Adding Personality to a Drawing; Adding Movement to a Drawing; Sketching Techniques; Fast Drawing Techniques; Integrating a Figure with Dressing.

**GRA 124 Graphic Patterns II** 2+2 4,0

Technical Tools; Analyzing Examples; Applying Color and Material on Figures; Black and White Figure Analysis;

Lay-Out Drawing; Fast Layout Techniques; Working with Different Materials in Animal and Object Drawing.

**GRA 158 Graphic Expression 2+0 2,0**

Art of Graphics; Computer in graphic design, Design and examples of design; Types of communication; Seeing and types of seeing; icon; Symbol; typography and types of typography; Logo; Emblem and examples of emblem, emblem and forms, typed forms; Painted forms; emblem and painted and typed forms; Concrete and abstract; Color, drawing and language of drawing; Point; Space; Structure; Pictogram.

**GRA 160 Printmaking 3+1 4,5**

Printmaking: History of Printmaking, Samples from Turkish and foreign artists; Techniques in Printmaking: Monotype print, Material print, Stencil print, Positive print, Negative print, Single and multicolor prints with natural and artificial materials, stencil print with single and double blocks, Applied printmaking.

**GRA 161 Individual Graphic Arts Language Support Courses I 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of graphic arts: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**GRA 162 Individual Graphic Arts Language Support Courses II 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of graphic arts: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**GRA 210 Sustainable Graphic Design 2+1 3,0**

The Concept of Sustainability: Importance of the concept of sustainability; Eco-design Concept; Importance and Principles of Eco-design for Graphic Designers: Brief, Measurement and formats, Color and ink, Paper usage, Computer rehearsal, Printing and post-printing processes, Packaging, Transportation; Impacts of Graphic Design Products on the Environment: Packaging wastes, Printed material wastes, Dye wastes and other environmental pollutants; Attracting Attention to Environmental Protection and Problems; Environmental Awareness Raising: Rational, questioning and creative experimental applications, Empathy, Problem-solving.

**GRA 212 Graphics Design I 6+2 7,5**

Problem Solving Techniques in Graphic Design: Problem, Research, Analysis, Visual image bank, Organizing the information, Defining the problem, Defining the client

profile, Defining client expectations, Analyzing the problem solving process; Presentation.

**GRA 221 Graphics and Animation 2+1 3,0**

Introduction to Adobe Illustrator, a Vectoral Programme; Menu commands, Tool commands, Drawing properties, Graphic ?Table drawing, Relations with other programmes, Filters, Page setup, Using a scanner; Picture, Forming new conceptions using both photographs and texts.

**GRA 223 Introduction to Graphic Design 6+2 7,5**

Language of Graphic Design: Concept, the Concept in Graphic image system, Techniques of graphic expression, Exercises on Techniques of Graphic Expression: Concept, Diagram, Synthesis, Style, Acrylic painting techniques, Watercolor painting techniques, Monotone, Duotone, Triotone, Linear expression, Non-linear expression, Realistic expression, Creativity, Use of visual culture in graphic design, Culture and design, Importance of visual culture in graphic design.

**GRA 225 Graphics and Animation 2+2 5,0**

Definition of Computer; General Structure and General Computer Use in Graphics Conceptions; Introduction to Adobe PhotoShop; Menu Commands; Tool Commands; Coloring and Color Panels; Selection of Colors; Processing Painting: Paintig tools, brush shapes and permability; Selecting and Masking; Text Effects; Filtering Techniques; Dimension and Plan Properties; Relation to other Programs; Using the Scanner; Stages in Different Scanned Photographs.

**GRA 229 Graphics Software II 3+1 4,5**

Definition of Computer; Using Computers in Graphics; Introduction to Macintosh; Introduction to Adobe Freehand, a Vectoral Programme: Menu commands, Tool commands, Properties of point and drawing, Coloring and color panels, Selection of colors, Dimension and plan properties, Relations with other programs, Filters, Writing areas, Page Layout, Using a scanner; Table of preferences, Picture; Forming New Concepts Using Both Photographs and Texts.

**GRA 233 Language of Graphic Design III 2+0 2,0**

Definition of Printmaking; Introduction to Tools and Materials of Printing; Types of Printing: Monotype print, Material print, Relief Print, Stencil print, Linoleum print, Wood print; Art and Technique: Information, technique, labor; Communication: Types of communication, Relationship between arts and technique; Creativity: Talent-Intelligence, Inspiration, Aesthetic communication in visual arts, What?s communication?; Visual Aesthetic Communication; Aesthetic Object; Technical Terminology.

**GRA 234 Language of Graphic Design IV 2+0 2,0**

Production Techniques in Graphic Arts; Illustration, Photography, Film Printing, Computer graphics, Industrial graphics and desktop publishing, Promotion, Packing; Terminology of Verbal, Visual, Auditory Communication: Illustration, Drawings for fairy tales and stories, Importance of communication tools in graphic design; Definition and

Types of Communication; Visual Communication; Verbal Communication, Audio-visual and Verbal Communication; Technical Terminology.

**GRA 253 Applied Graphic Design I 3+1 4,5**

Definition of Computer; General Structure and use of computer; computer in Graphic Design; Introduction to Macintosh; Introduction to the Vectoral Program Adobe Illustrator; Menu Commands, Tool Commands, Properties, Graphics, Table drawings, Exchange with other Programs, Filters, page Setup, Using scanner; Picture, New Designs with both photography and text.

**GRA 254 Applied Graphic Design II 3+1 4,5**

Definition of Computer; General Structure and use of computer; computer in Graphic Design; Introduction to Macintosh; Introduction to the Vectoral Program Adobe Illustrator; Menu Commands, Tool Commands, Properties, Table drawings, Exchange with other Programs, Filters, page Setup, Using scanner; Picture, New Designs with both photography and text.

**GRA 263 Individual Graphic Arts Language Support Courses III 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of graphic arts: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**GRA 264 Individual Graphic Arts Language Support Courses IV 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of graphic arts: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**GRA 313 Graphics Designe II 6+2 7,5**

Uses of Graphic Design: Design of Posters, Brochures, POP materials, Magazine Cover Designs, Book Cover Designs, Public Relations, Campaigns: Use of Graphic Design in Campaigns, Relations among different designs, Principle of Integrity; Campaign Identity: Designing visual identity, Using some shared systems in a design piece.

**GRA 323 Team Work and Educational Games 3+1 4,5**

Productive, Respectful to self-values, Rational, Questioning, Enterprising, Creative, Obeying ethical and moral rules, Social awareness, Environmental sensitivity, Adapting to different situations and social roles, Working in teams, Using time effectively, Respecting the differences, Learning to learn, Problem solving, Adapting theoretical knowledge to application, Promoting quality, Organizing and planning, Decision making, Leadership.

**GRA 326 Computer Assisted Typography II 5+1 5,0**

Typographic Design: Typography, Design and typography of publications, Relation between typography and corporate identity, Typefaces of Today: Typefaces from Industrial Revolution to today, Modernism, Post-Modernism, Trends, Current approaches; Selection of typefaces: Typographic preferences in publication design, Typography and corporate identity, Typography and color; Typeface Design and Adaptation: Current approaches, Font design, Adjusting fonts to Turkish, Macromedia Freehand, Adobe Illustrator, Typeface design in digital environments and its adaptation into various media.

**GRA 327 History of Graphic Arts 2+0 3,0**

Art Movements in the Late 19th and the Early 20th Century; Modernism in European Graphic Design; New Typography in Design; Pioneers of International Typographic Movements; Arts and Crafts; Art Nouveau; Posters in World War I: Germany-England-USA; Bauhaus; Milestones of Turkish Graphic Arts: İhap Hulusi; Mengü Ertel; Bülent Erkmn, Sadık Karamustafağlu. Corporate identity, Visual systems, Visual Description, the International Period in Graphic Design.

**GRA 332 Packaging Design I 4+1 5,0**

Three Dimentional Design; Label Design; Packaging Design and Color; Box-form Design; Paper: Paper type, Dye-cut and folding techniques; Sectoral Factors; Box Forming: Choosing box size and materials, Silkscreen, Digital printing and make-up making.

**GRA 334 Computer Assisted Visual Image Processing I 6+2 7,5**

Introduction to Mac; Introduction to Adobe Photoshop: Image, Tools, Cursor, Palette, Size and resolution, Printing and screen resolution, Color modes, Various platform formats, Transforming photographs to computer images; Scanning and Color Options; Scanning Programs; Printing; Adobe Photoshop; Characteristics of the Filter and Stages of Filter Application on Differently Scanned Photographs.

**GRA 335 Language of Graphic Design V 2+0 2,0**

Emblem, Logo, Envelope, Letterhead Paper, Bussiness Card, Label, Flyer, Invitation Card, Package, Packaging Wrap,, Calender, Desk, Wall and pocket calender; Stages of designing book and magazine cover;, Poster: Cultural and commercial posters. Technical Terminology.

**GRA 336 Language of Graphic Design VI 2+0 2,0**

Hardware of Computers: Microprocessor, RAM, Hard disc, Keyboard, Mouse; General Information about the Monitor, ; Menu Commands of Adobe Photoshop; Infomation about the definition and use of scanner. Technical Terminology.

**GRA 337 Computer Assisted Typography I 4+2 7,0**

Typographic Design: Typography, Typefaces, Font, Fontographer, Design; Type Anatomy: Roman characters, Serif, Sans serif, Italic, Upper case, Lower case, Body copy; Evolution of Type: Graffitis, Sumerians, Hieroglyphics,

Phoenicia civilization, Greek and Roman civilizations, Renaissance, Gothic style, Industrial revolution; Classifications of Typefaces: Old style, Traditional, Modern, Contemporary, Decorative typefaces; Typeface Design: Font design, Adjusting fonts to Turkish, Point, Optical values, Contrast, Condensed, Extended, Macromedia freehand, Adobe illustrator, Typeface design in digital environments.

**GRA 341 Computer Assisted Graphic Design 4+2 7,0**  
Computers as a Means for Graphic Design; Introduction to MAC; Vector Programs: Adobe Illustrator, Macromedia freehand: Properties of drawing, Color selection, Dimension and plan properties, Exchange with other programs, Filters, Page setup; Using a Scanner; Introduction to Adobe Photoshop: Scanning on Photoshop, Color and format options; Printer Setup.

**GRA 365 Individual Graphic Arts Language Support Courses V 2+0 2,0**  
Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of graphic arts: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**GRA 366 Individual Graphic Arts Language Support Courses VI 2+0 2,0**  
Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of graphic arts: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**GRA 407 WEB Graphic Design 2+2 4,5**  
What is WWW?; What is HTML?; Preparing HTML Pages: File name and attachments, Image formats, Website construction, Font using; Cyber Studio Software: Main page, about Palette, Control panels, Toolbox, Site window; New site Construction: First page, Title, Guide, Text, Image, Color palette, Background color and images, Connections, Preview, Browser using, Sitemap, Connection controls, Loading the website on servers.

**GRA 413 Calligraphy I 2+2 4,5**  
Defining calligraphy; History of calligraphy; Tools and Equipment of Calligraphy: Pens, pencils, Charcoal, Crayons; Ink Tools: Brushes, Geometric tools; Natural Objects: Wood, Matchsticks, Cotton, Finger, etc; Ink and paint, Classification of Papers; Using Cutting Tools.

**GRA 416 Engraving 2+2 4,5**  
Engraving (zinc, copper and aluminum); Before Printing: Introducing technical features, materials and tools, Evaluating the artists and samples of their works, Preparing designs and compositions based on discussions; Printing

Process: Multi-color prints; After Printing: Numbering, Signature, Criticizing, Framing and Exhibiting.

**GRA 418 Calligraphy II 2+2 4,5**  
Reflection of Calligraphy in Other Arts; Relationship between Calligraphy and Technique; Aesthetics; Functionalism; Drawing and Calligraphy; Calligraphy in the Far East; Calligraphy in Islam; the Western Calligraphy; Using calligraphy in Architecture; Graphic Design and Calligraphy; Original Works of Calligraphy; Line, Color, Form, Stain, Technique, Composition; Linear Shaping, Surface Shaping.

**GRA 428 Digital Production Techniques in Graphic Design 3+0 4,5**  
Screen and Print Technologies, RGB work system; CMYK Systems; Color Separation Sets; Halftone; LBI-DPI Connections and Alternatives; Color Distinguishing Press Table; Printing and Forwarding Computer Output; CD Rom Writing; Netscape Communicator: Search engines; Sending-loading information using the Internet.

**GRA 433 Packaging Design II 4+1 6,0**  
Graphic Design; Corporate Identity and Brand Identity; Label Design and Corporate Identity; Choice of Material: Glass, Plastic, Wooden boxes; Packaging and Color: Color and its effects, Color and consumer; Choice of Color on the basis of the Subject and Industrial Sector; Box, Label and Form Design: Form alternatives, Specifying the box form, Mock-up making with new forms in silkscreen and electronic environment.

**GRA 436 Desktop Publishing 5+1 6,5**  
Use of Graphic Design in Electronic Environment and Elsewhere: Pre-computer preparation; Page Rulers and Show Layer; Quark Xpress Programme; Adjusting Page Properties, Image and Text Insertion, Forming master page, Library, Word and paragraph adjustments, Color properties, Preparation for Printing.

**GRA 437 Graphic Design Project I 6+2 6,5**  
Stages of a Project in Graphic Design; Specifying the Target Audience; Analyzing the Project from the Perspective of Product Presentation; Product Identity; Corporate Identity; Relationship between Product and Corporation; Application of a Specified Identity to Graphic Design: Choosing the brand, Creating a symbol based on the brand, Calligraphy; Using the Brand-Symbol in the Designed Project; Use of Computer Based Production Systems; Presentation of the Designed Project.

**GRA 438 Graphic Design Project II 6+2 7,5**  
Designing a Project in Assigned Areas: Emblem, Calligraphy, Press bulletin, Brochure, Calendar design; Advertising Material Design; Establishing Visual Language Continuity: How to use the language of Graphic design?; Magazine Cover Design: Concept of actuality, Updates as a symbol; International Visual Language; Computer-based Production Systems; Presentation of the Designed Project.



**GRA 439 Computer Visual Assisted Image Processing II** 4+1 6,0

Adobe Photoshop; Printing Photographs: Screen calibration, Printer calibration, Normal printing, Color Printing, CMYK preparation, Duotone preparation; Painting and Processing: Painting tools, Processing tools, Brush types and transparency, Selecting and masking, Text effects, Filtering techniques; Color; Selecting and processing color, Applications in different color modes, Color maps.

**GRA 440 Illustration Techniques** 3+1 4,5

Original Illustration Works; Illustrating Literary Works; Selection of the Theme to be Illustrated; Identifying the Hero; Identifying the Movements of the Characters; Identifying the Number and Size of Pages; Coloring according to the Technique; Economic Use of Time and Tools, Standards of Paper and Paper Size.

**GRA 444 Computer Assisted Illustration Techniques** 3+1 4,5

Definition and History of Illustration, illustration Uses; of illustration and the Importance of Place in the Graphic Arts, Illustration Techniques and methods used in, Illustration Techniques Development of new designs combining different materials, computer media, Packaging, Publishing, Industrial, Advertising, Photographic Work, Original Illustration Studies; illustration of literary works.

**GRA 447 Language of Graphic Design VII** 2+0 2,0

Graphic Design Programs compatible with MacOS Software; Adobe Illustrator Graphic Program; Portfolio: Personal files, How to form personal files?, CV writing; Material Definition; Types of Presentation: Electronic portfolio, portfolio composed of printed materials; Terminology.

**GRA 448 Language of Graphic Design VIII** 2+0 2,0

Photography as a Language and Means of Expression; History of Photography; Where to Use Photography?: Advertising photography, Studio photography; Introduction to Camera: Shutter release, Visor, Snapshot, Diaphragm, Lense, Flash, Tripod; Digital Camera and Transfer to Macintosh Environment; Terminology.

**GRA 451 Portfolio Design I** 2+2 5,0

Personal Introduction; Project Presentation: Form, Electronic or traditional portfolios; Preparing the Portfolio: Determining the target audience, Deciding on the presentation style, Technical preparations, Supplying the necessary materials, Deciding on the press techniques of materials to be displayed; Preparing Portfolio in the Electronic Environment; Presentation: CV design; Presenting in a Professional Manner.

**GRA 452 Portfolio Design II** 2+2 5,0

Preparations for the Provision of Personal Information; Preliminary Preparations for a Presentation: Specifying the style of presentation; Specifying the Target Audience;

Types of Presentation: Electronic portfolio; Preparations for a Presentation: What is included in a portfolio?, Providing necessary materials required by the type of presentation, Purchasing or producing a portfolio bag.

**GRA 467 Individual Graphic Arts Language Support Courses VII** 2+0 2,0

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of graphic arts: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**GRA 468 Individual Graphic Arts Language Support Courses VIII** 2+0 2,0

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of graphic arts: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**HZT 101 Basic Linguistic Skills** 10+5 12,5

Context related conversation; One-to-one conversation; Group conversation; Appropriate use of semantic relations; Syntactic appropriateness; Appropriate use of morphemes; Listening skills; Group oriented discourse; Listening and speaking critically; Comprehending various kinds of texts; Recognizing words in context; Expressing words used in different situation with appropriate form and content; Comprehending simple and complex sentences; Comprehending texts by activating background knowledge; Predicting theme of a text by getting clues from headings; Supplying appropriate headings; Predicting new vocabulary in text; Reporting about the comprehended texts; Identifying the distinguished features of text; Reading aloud; Silent reading; Retelling; Answering text related questions; Written and oral summary; Writing text related questions; Writing for various purposes; Writing words correctly; Writing appropriate forms and contents in different situation; Sentence knowledge; Writing approp

**HZT 102 Reading Comprehension** 4+0 4,0

Comprehending and decoding various kinds of text: decoding and comprehension: functional, expository, narrative and esthetic texts; Letter and word recognition; Vocabulary knowledge in and out of context; Contextual clues in recognize words; Expressing words used in different situation with appropriate form and content; Comprehending simple and complex sentences; comprehending texts my activating background knowledge; Predicting theme of a text by getting clues from headings; Supplying appropriate headings; Predicting new vocabulary in the text; Reporting about the comprehended texts; Identifying the distinguished features of text; Reading aloud; Silent reading; Retelling; Answering text related

question; Written and oral summary; Asking text related questions.

**HZT 103 Writing 4+0 4,0**

Writing for variety purposes: Explanation, direction giving, description, story writing, esthetic writing, expository writing, dialog writing, writing words correctly, writing words used in different situation with appropriate form and content; Sentence knowledge: simple sentences, compound sentences, sequential sentences, conjunction sentences; Writing appropriately based on semantic relations; Writing syntactically appropriate sentences; using suffixes appropriately; Paragraph knowledge: main idea, supporting ideas; Text structure knowledge: introduction, development, conclusion, content, organizing, conventional rules.

**HZT 104 Spoken Turkish 4+0 4,0**

Context related conversation; Speaking appropriately according to contextual elements: people, time, subject and place; One-to-one conversation; Group conversation; Initiating conversation, turn taking, closing; Topic: initiation, maintenance, ending; Appropriate use of semantic relations; Syntactic appropriateness; Appropriate use of morphemes; Listening skills; Group oriented discourse; Listening and speaking critically; Speaking about a picture; Describing objects, characters and actions in the picture; Describing the causal relations between the characters and actions; Predicting the following events based on the events in the picture.

**HZT 105 Mathematical Reasoning 3+0 3,0**

Basic mathematical concepts: number systems, comparing numbers, geometry, coordinates, measures; Developing basic mathematical concepts in normally hearing and hearing impaired individuals; Recognizing the relationships between events and object; Perception of cause and effect relationships; Developing number concept; Operations: addition, subtraction, multiplication, division; Distinguishing, classifying, organizing and comparing the features of shapes and objects; Application: measurement, time, money, prediction, direction, interpreting the data, problem solving steps.

**HZT 201 Basic Linguistic Skills 10+5 12,5**

Context related conversation; One-to-one conversation; Group conversation; Appropriate use of semantic relations; Syntactic appropriateness; Appropriate use of morphemes; Listening skills; Group oriented discourse; Listening and speaking critically; Comprehending various kinds of texts; Recognizing words in context; Expressing words used in different situation with appropriate form and content; Comprehending simple and complex sentences; Comprehending texts by activating background knowledge; Predicting theme of a text by getting clues from headings; Supplying appropriate headings; Predicting new vocabulary in text; Reporting about the comprehended texts; Identifying the distinguished features of text; Reading aloud; Silent reading; Retelling; Answering text related questions; Written and oral summary; Writing text related questions; Writing for various purposes; Writing words

correctly; Writing appropriate forms and contents in different situation; Sentence knowledge; Writing approp

**HZT 202 Reading Comprehension 4+0 4,0**

Comprehending and decoding various kinds of text: decoding and comprehension: functional, expository, narrative and esthetic texts; Letter and word recognition; Vocabulary knowledge in and out of context; Contextual clues in recognize words; Expressing words used in different situation with appropriate form and content; Comprehending simple and complex sentences; comprehending texts by activating background knowledge; Predicting theme of a text by getting clues from headings; Supplying appropriate headings; Predicting new vocabulary in the text; Reporting about the comprehended texts; Identifying the distinguished features of text; Reading aloud; Silent reading; Retelling; Answering text related question; Written and oral summary; Asking text related questions.

**HZT 203 Writing 4+0 4,0**

Writing for variety purposes: Explanation, direction giving, description, story writing, esthetic writing, expository writing, dialog writing, writing words correctly, writing words used in different situation with appropriate form and content; Sentence knowledge: simple sentences, compound sentences, sequential sentences, conjunction sentences; Writing appropriately based on semantic relations; Writing syntactically appropriate sentences; using suffixes appropriately; Paragraph knowledge: main idea, supporting ideas; Text structure knowledge: introduction, development, conclusion, content, organizing, conventional rules.

**HZT 204 Spoken Turkish 4+0 4,0**

Context related conversation; Speaking appropriately according to contextual elements: people, time, subject and place; One-to-one conversation; Group conversation; Initiating conversation, turn taking, closing; Topic: initiation, maintenance, ending; Appropriate use of semantic relations; Syntactic appropriateness; Appropriate use of morphemes; Listening skills; Group oriented discourse; Listening and speaking critically; Speaking about a picture; Describing objects, characters and actions in the picture; Describing the causal relations between the characters and actions; Predicting the following events based on the events in the picture.

**HZT 205 Mathematical Reasoning 3+0 3,0**

Basic mathematical concepts: number systems, comparing numbers, geometry, coordinates, measures; Developing basic mathematical concepts in normally hearing and hearing impaired individuals; Recognizing the relationships between events and object; Perception of cause and effect relationships; Developing number concept; Operations: addition, subtraction, multiplication, division; Distinguishing, classifying, organizing and comparing the features of shapes and objects; Application: measurement, time, money, prediction, direction, interpreting the data, problem solving steps.

**HZT 301 Basic Linguistic Skills 10+5 12,5**

Context related conversation; One-to-one conversation; Group conversation; Appropriate use of semantic relations; Syntactic appropriateness; Appropriate use of morphemes; Listening skills; Group oriented discourse; Listening and speaking critically; Comprehending various kinds of texts; Recognizing words in context; Expressing words used in different situation with appropriate form and content; Comprehending simple and complex sentences; Comprehending texts by activating background knowledge; Predicting theme of a text by getting clues from headings; Supplying appropriate headings; Predicting new vocabulary in text; Reporting about the comprehended texts; Identifying the distinguished features of text; Reading aloud; Silent reading; Retelling; Answering text related questions; Written and oral summary; Writing text related questions; Writing for various purposes; Writing words correctly; Writing appropriate forms and contents in different situation; Sentence knowledge; Writing approp

**HZT 302 Reading Comprehension 4+0 4,0**

Comprehending and decoding various kinds of text: decoding and comprehension: functional, expository, narrative and esthetic texts; Letter and word recognition; Vocabulary knowledge in and out of context; Contextual clues in recognize words; Expressing words used in different situation with appropriate form and content; Comprehending simple and complex sentences; comprehending texts my activating background knowledge; Predicting theme of a text by getting clues from headings; Supplying appropriate headings; Predicting new vocabulary in the text; Reporting about the comprehended texts; Identifying the distinguished features of text; Reading aloud; Silent reading; Retelling; Answering text related question; Written and oral summary; Asking text related questions.

**HZT 303 Writing 4+0 4,0**

Writing for variety purposes: Explanation, direction giving, description, story writing, esthetic writing, expository writing, dialog writing, writing words correctly, writing words used in different situation with appropriate form and content; Sentence knowledge: simple sentences, compound sentences, sequential sentences, conjunction sentences; Writing appropriately based on semantic relations; Writing syntactically appropriate sentences; using suffixes appropriately; Paragraph knowledge: main idea, supporting ideas; Text structure knowledge: introduction, development, conclusion, content, organizing, conventional rules.

**HZT 304 Spoken Turkish 4+0 4,0**

Context related conversation; Speaking appropriately according to contextual elements: people, time, subject and place; One-to-one conversation; Group conversation; Initiating conversation, turn taking, closing; Topic: initiation, maintenance, ending; Appropriate use of semantic relations; Syntactic appropriateness; Appropriate use of morphemes; Listening skills; Group oriented discourse; Listening and speaking critically; Speaking about a picture; Describing objects, characters and actions in the

picture; Describing the causal relations between the characters and actions; Predicting the following events based on the events in the picture.

**HZT 305 Mathematical Reasoning 3+0 3,0**

Basic mathematical concepts: number systems, comparing numbers, geometry, coordinates, measures; Developing basic mathematical concepts in normally hearing and hearing impaired individuals; Recognizing the relationships between events and object; Perception of cause and effect relationships; Developing number concept; Operations: addition, subtraction, multiplication, division; Distinguishing, classifying, organizing and comparing the features of shapes and objects; Application: measurement, time, money, prediction, direction, interpreting the data, problem solving steps.

**İNG 157 English I 2+0 2,0**

Verb To Be; Greeting structures; Objects: The objects in the classroom; Imperatives; Modals: 'Can'; Pronouns: Personal pronouns; Numbers; Wh-Questions; Patterns Used for Expressing Likes and Dislikes; Tenses: Present Continuous; Prepositions: Prepositions of Place: 'in?', 'on?', 'under?', 'in front of?', 'behind?', 'next to?', 'above?', 'below?', 'over' ; Adjectives; Telling the Time; Colors.

**İNG 158 English II 2+0 2,0**

Pronouns: Personal pronouns; Sentences: Affirmative and negative sentences; Imperatives; Subject-verb Agreement; Tenses: Present continuous, Verb to be; Interrogatives: Questions asked by using an auxiliary verb, Wh-Questions; Nouns: Countable and uncountable nouns; Modals: 'Can?' and 'will?'; Prepositions: Prepositions of Time: 'in?', 'on?', 'at?', 'until?', 'till?', 'by?.'

**İSN 106 Organizational Communication 2+0 2,0**

Concept of Office; Definition, significance and processing of Information in office work; Functions of offices; Problems in Offices; Elements of Office Automation; Definition of office work; Historical development of office work; Status in office work; Distribution of recruitment with respect to the sector; Law in Office; Introduction to Office Personnel; Rights and Obligations of the Personnel, Discipline, Reward and Punishment of the Personnel.

**İSN 108 Organizational Communication 2+0 3,0**

Concept of Office; Definition and Importance of Information in the cont ext of Office Woks, Information Processing; Functions of Offices; Problems in Offices; Elements of Office Automation; Concept of Working; Historical Development of Working; Why do People People Work? In Which Statures do They Work?; The Statures in Business Life in Our Country; Distribution of Employment by Sector; Law on Public Employees; Introduction to State Employment; Rights and Obligations of Public Employees; Sanctions concerning State Employees; Disciplinary Punishments and Punishment Prosecution concerning State Employees.

**İŞL 311 Management Accounting of Ceramic  
Production** **2+0 4,0**

Definition of Studio; Definition of Factory; Definition of Production; Definition of Capacity; Definition of Investment; Investment Expenditures and Types of Investments; Definition of Enterprise; Aims of Enterprises; the Factors Affecting the Selection of a Location for an Enterprise; Production Buildings of an Enterprise; Characteristics of a Successful Enterprise, Advantages of Single-floor Buildings; the Settling of an Enterprise, Aims of Settling, Benefits of Settling.

**KÜL 199 Cultural Activities** **0+2 2,0**

Participating Actively or as a Spectator in Sports Activities; Participating in Activities Arranged by the Counseling Center; Participating in Workshops in Art; Education on Museums; Participating in Art Trips; Participating in Cultural Trips; Participating in and Taking Duty in activities such as Cinema, theatre, scientific Meeting etc.; Taking duty in Clubs; Being a Student Representative and Participating in Environmental Activities.

**MAT 241 Mathematics I** **2+0 2,0**

Four Operations with National Numbers and Integers: Addition, subtraction, multiplication and division, Properties of these operations, and Problems with four operations; Fraction: Definition of fraction, Addition, subtraction, multiplication and division with fraction, Problems that require operations with fractions; Decimals: Definition of decimals, Addition, subtraction, multiplication and division with decimals, and Problems that require operations with decimals; Ratio and Proportion: Definitions of ratio and proportion, Definitions and properties of direct proportion and inverse proportion, Problems with proportions.

**MAT 242 Mathematics II** **2+0 2,0**

Four Operations with National Numbers and Integers: Addition, subtraction, multiplication and division, Properties of these operations, and Problems with four operations; Fraction: Definition of fraction, Addition, subtraction, multiplication and division with fraction, Problems that require operations with fractions; Decimals: Definition of decimals, Addition, subtraction, multiplication and division with decimals, and Problems that require operations with decimals; Ratio and Proportion: Definitions of ratio and proportion, Definitions and properties of direct proportion and inverse proportion, Problems with proportions.

**MAT 243 Mathematics I** **2+0 3,0**

Four Operations with National Numbers: Addition, subtraction, multiplication and division, Properties of these operations, Using calculator for four operations, and Problems with four operations; Decimals: Definition of decimals, Addition, subtraction, multiplication and division with decimals, Using calculator for operations with decimals, and Problems that require operations with decimals; Ratio and Proportion: Definitions of ratio and

proportion, Definitions and properties of direct proportion and inverse proportion, Problems with proportions.

**MAT 244 Mathematics II** **2+0 3,0**

Percentage: Relationship between percent and fraction, Percent calculations, Percentage problems; Measurement units: Length measurement units and conversion of units, Solving problems related to length measurement units, Weight measurement units and converted to each other, Solving problems related to weight measurement units; Area Calculations: Square, rectangle, triangle areas and problems related to their calculation, Circle and sector areas and problems related to their calculation; Volume Calculations: Prism volume calculations and problems related to their calculation, Pyramid volume calculations and problems related to their calculation.

**MAT 245 Basic Mathematics I** **2+0 3,0**

Basic Concepts: Basic principles of addition, multiplication and division, Divisibility rules, Multiplier and Multiples; Digits of Numbers: Reading and writing multi-digit numbers, Calculation of digit values, Analysis of natural numbers; Rational Numbers: Multi-step operations with rational numbers; Decimal Numbers: Multi-step operations with decimal numbers.

**MAT 246 Basic Mathematics II** **2+0 3,0**

Exponents: Calculating powers of 2, 3 and 5, Multiplication, division, addition and subtraction with exponential numbers; Square Root: Extracting square roots, Multiplication, division, addition and subtraction with square roots; Ratio-Proportion: Essential features of ratio and proportion, Problems that can be solved with ratio and proportions; Equations: First-degree equations, Solutions of rational equations, Problems that can be solved with equations.

**MAT 809 Computer Operator Individual  
Support Mathematics I** **2+0 2,0**

Four Operations with National Numbers and Integers: Addition, subtraction, multiplication, and division, properties of these operations, and problems with four operations; Fraction: Definition of fraction, addition, subtraction, multiplication, and division with fraction, Problems that might require operations with fractions; Decimals: Definition of decimals, addition, subtraction, multiplication, and division with decimals, and problems that require operations with decimals; Ratio and Proportion: Definitions of ratio and proportion, definitions and properties of direct proportion and inverse proportion, problems with proportions

**MAT 810 Computer Operator Individual  
Support Mathematics II** **2+0 2,0**

Percent: Relationship between percent and fraction, calculating with percent, problems of calculating percentage; First Degree Equations: Roots of first degree equation; Data Collection and Analyzing for Research: Production of research question about a problem, calculating arithmetic averages of data, presenting and

interpreting with appropriate statistical representation of data, constructing and interpreting of bar graph, constructing and interpreting of line graph, constructing and interpreting of circle graph

**MAT 811 Mathematics I** 2+1 3,0

Four Operations with National Numbers and Integers: Addition, subtraction, multiplication, and division, properties of these operations, and problems with four operations; Fraction: Definition of fraction, addition, subtraction, multiplication, and division with fraction, Problems that might require operations with fractions; Decimals: Definition of decimals, addition, subtraction, multiplication, and division with decimals, and problems that require operations with decimals; First Degree Equations: Roots of first degree equation; Length Measurement Units and Environment Calculations: Length measurement units, convert between units of measure length, account the environments of triangle, square, rectangle, and circle, and solving problems with the units of length.

**MAT 812 Mathematics II** 2+1 3,0

Ratio and Proportion: Definitions and properties of ratio and proportion, problems with proportions; Percent: Relationship between percent and fraction, calculating with percent, and problems of calculating percentage; Area Measurement Units and Area Calculations: Area measurement units, convert between units of measure area, account the areas of triangle, square, rectangle, and circle, and solving problems with the units of area

**MAT 813 Architectural Drafting Individual Support Mathematics I** 2+0 2,0

Four Operations with National Numbers and Integers: Addition, subtraction, multiplication, and division, properties of these operations, and problems with four operations; Fraction: Definition of fraction, addition, subtraction, multiplication, and division with fraction, Problems that might require operations with fractions; Decimals: Definition of decimals, addition, subtraction, multiplication, and division with decimals, and problems that require operations with decimals; First Degree Equations: Roots of first degree equation; Length Measurement Units and Environment Calculations: Length measurement units, convert between units of measure length, account the environments of triangle, square, rectangle, and circle, and solving problems with the units of length.

**MAT 814 Architectural Drafting Individual Support Mathematics II** 2+0 2,0

Syllabus: Ratio and Proportion: Definitions and properties of ratio and proportion, problems with proportions; Percent: Relationship between percent and fraction, calculating with percent, and problems of calculating percentage; Area Measurement Units and Area Calculations: Area measurement units, convert between units of measure area, account the areas of triangle, square, rectangle, and circle, and solving problems with the units of area.

**MIT 306 Mythology** 2+0 4,0

Mythology and Iconography; Mythos; Similarities and Differences Between Mythos and Historical Facts; Identification of Common Cultural Heritage; Near Eastern Mythology; Egyptian and Greek Mythology; Creation of the Universe; Creation of Man; Olympian Gods and Goddesses; Heroes and Regional Legends; Relation of Myth to European Paintings and Sculpture; Christian Mythology: The Old Testament, The Prophets of the old testament; The Bible: Virgin Mary, Life of Christ, John the Baptist, Holy Apostles; The Relation of Christian Myth to Byzantine and European Paintings and Sculpture.

**MYR 107 Sketch Techniques** 2+0 3,0

Description of Drafting: plastic components, Line, Rhythm, Composition, Harmony, Light and Dark Texture, Application of line, Application of Light and dark, Application of texture, Techniques of changing quality, Adding space, Adaptation, Changing the surrounding, Changing the position, Changing the material and texture, Changing Movement, Providing visible attraction, Providing emotional attraction, Constructional Transformation, Metamorphosis.

**MYR 122 Research Techniques and Seminar** 2+1 3,0

Research Techniques: Definition of Research; Basic Concepts and Data Collection Techniques; Selection of Research Topics; Resources; Researching Relevant Publications such as Books and Periodicals; Using the Internet and the Library; Research Projects; Analysis of Resources; Reporting and Presenting the Research..

**MYR 124 Building Construction II** 2+2 4,0

Stairs: Definition and Types of Stairs; Roofs: Definition and Types of Roofs, Seating roofs, Suspension roofs, Terrace roofs, Timber in Building: Windows; Types of windows, Window frames, Doors: Types of doors, Door frames, Interior doors, Exterior doors.

**MYR 129 Architectural Presentation** 2+2 4,0

Aim of The Course; Introduction to Technical Tools, Rules and Requirements; Basic Line Drawing Applications; Free Lettering Rules; Applications of Free Lettering; Geometrical Drawings; Symbols Used in Architecture; Projection Concept; Elevation Drafting; Scale Drafting with Scales 1/100, 1/50, 1/20; Dimension Application; Furniture in Architecture; Project: Plan Concept, How to draw a plan? Sectional Drawing A-A, B-B; Section Concept; Section Applications; Technical Project for the Course Final.

**MYR 130 Introduction to Architecture and Project** 2+3 5,0

Introduction to the Course; Introducing Materials to be used in the Course; Practice with Drawing Materials; Drawing Applications; Presenting Principles of Plan Drawing; Flat Plans for 1/100 in scale; Flat Plans for 1/100 in scale; Presenting principles of a cross-section drawing; Cross-sections for 1/100 in Scale; Cross-sections for 1/100 in Scale; Presenting Principles of External View Drawing; External view Drawing for 1/100 in scale; Position of Real

Estate for 1/500 and 1/200 in scales; Flat Plans for 1/50 in scale; Cross-sections for 1/50 in scale;; drawing of A-A and B-B External Views for 1/50 in Scale; Position of Real Estate for 1/500 and 1/200 in Scale.

**MYR 131 Building Construction I** 2+1 3,0

Main Concepts of Construction: Building, Building materials, Building elements; Classification of Building; Construction Phases: Excavation; Definition and Types of Ground; Definition and Types of Foundations: Shallow foundation, Deep foundation; Walls; Floors; Insulation: Heat insulation, Water insulation, Sound insulation; Chimneys and Fireplaces; Principles of Loadbearing Wall Construction.

**MYR 133 Building Materials I** 2+0 3,0

Classification of Materials of Construction; Natural Stones; Aggregate Materials; Connecting Materials; Artificial Stone Materials: Components of concrete, Stages of concrete manufacture, Additive materials of concrete, Types of concrete, Surveying types of concrete and their use, Pouring of concrete in hot and cold weather and precautions to be taken.

**MYR 134 Building Materials II** 2+0 3,0

Properties of Wood; Use of Wood in Construction; Properties of Metals and their Use in Construction; Clay and Ceramics; Types of Isolation Materials; Use of Isolation Materials in Construction; Covering Materials: Covering materials for walls; Floors; Stairs and the Roof.

**MYR 137 Color Information** 1+2 3,0

Definition of color, Color Info: Color wheel, primary colors, Dec colors, warm colors, cold colors, color contrasts, Color Harmony: Tons of alignment, Near colors harmony, harmony of contrasting colors, colors Valor Level, Color Perspective, Color and Light, The Colors Human on the Psychological Effects, Physiological Effects of Colors.

**MYR 139 Building Terminology I** 2+0 3,0

Terminology of Building: Building, Construction, Building materials, Building element, Carrier System: Masonry system, Skeleton system, Prefabric system, Shell system, Broken flat system, Suspension lift system, Space frame system, Blow system, Tent system; Pre-Construction Phases: Project, Ground surveys, Excavation; Foundations: Shallow foundation, Deep foundations; Walls: Carrier wall, Dividing wall, Single-layered wall, Multi-layered wall; Floors; Sitting on the ground floor, Roof floor, Console floor, Low floor, Composite floor; Principles of Masonry Structures: Seismic intensity, Region of earthquake, Beam, Lintel, Gable Wall.

**MYR 140 Building Terminology II** 2+0 3,0

Stairs: Footstep, Berth, Balustrade, Bulwark, Stairhead, Floor height, Line out, Wood stair, Reinforced concrete stair, Steel stair, Prefabric stair, Straight ladder, Two-arm staircase landing, Two-arm semi-rotary stair, Two-arm rotary quarter stair, Full circle stair, Ellipse stair; Roofs:

Roof slope, Pitched roof, Wood roof, Reinforced concrete roof, Steel roof, Seating roofs, Suspension roof, Roof drapper, Roof ridge, Fringe, Purlin, King post, Strut, Collar ties, Tie beam; Doors and Windows: Frame, Wing, Bulwark.

**MYR 141 Professional Language I** 3+0 2,0

Basic Concepts: Architect, Design, Draftsman, Drafting; Architecture and Architectural Drafting and Professional Responsibilities; Basic Concepts of Drawing; Drawing equipment, Layout, Section, Elevation, Perspective, Project types, Scale, Furnishing; Basic Concepts of Building; Building, Building types, Building components; Exercises to Improve Professional Language Related to Architecture and Architectural Drafting; Preparing for Working Environment of Architectural Offices: Effective presentation techniques.

**MYR 142 Professional Language II** 3+0 2,0

Basic Concepts of Architecture: People and environment relations, Human scale, User needs; Residential Building: Basic functions, Parts of residential buildings, Furnishing, Residential building types; Basic Concepts of Computer Drawing; Basic Concepts of Building: Roof, Roof types, Windows and doors; Exercises to Improve Professional Language Related to Architecture and Architectural Drafting; Preparing for Working Environment of Architectural Offices: Preparing presentation sheets.

**MYR 143 Individual Architectural Drafting Language Support Courses I** 2+0 2,0

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of Architectural Drafting: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**MYR 144 Individual Architectural Drafting Language Support Courses II** 2+0 2,0

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of Architectural Drafting: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**MYR 217 Surveying** 2+1 3,0

Definitions of surveying; Surveying and Scales techniques; Preparation sketch and take photographs, measurement of existence building, writing measurements on the sketch, to inform about surveying drawing techniques, Application, determination of site with photographs, to take horizontal measure and writing measurements on the sketch, preparation of section and front sketch, taking techniques of height measure.

**MYR 218 Introduction To Computer Aided  
Visual Commitment 2+1 3,0**

Definition of Computer; General Structure and General Computer Use in Graphic Conceptions; Introduction to Macintosh; Introduction to Pixel Base Programs; Adobe Photoshop; Menu Commands; Tool Commands; Coloring and Color Panels; Selection of Colors; Processing Painting; Painting tools, Brush Shapes and Permeability; Selecting and Masking; Text Effects; Filtering Techniques; Dimension and Plan Properties; Relation to other Programs; Using the Scanner; Stages in Different Scanned Photographs.

**MYR 227 Reinforced Concrete Practice  
Project I 2+2 3,0**

Definition of Reinforced Concrete Construction; Elements of Reinforced Concrete Frame and Loading; Codes and Regulations concerning Reinforced Concrete: TS 500 Codes for Calculation and Construction, Rules for Reinforced Concrete Buildings, Regulation concerning Buildings in Disaster Areas (Earthquake Regulation); Slabs: One- and Two- way slabs; Beams, Columns, Foundations, Drawing Reinforced Concrete Project of Masonry Two-Storey-Buildings: Drawing framework and steel equipment at 1/50, Drawing details of beams at 1/20, Foundation plans at 1/50 scale.

**MYR 228 Reinforced Concrete Practice  
Project II 2+2 3,0**

Drawing a Static Project for a Reinforced Concrete Buildings with two Apartments: Normal and ground floor framework and steel equipment plans at 1/50 scale, Drawing a singular foundation plan and details at 1/50 and 1/20, Drawing a strip foundation plan at 1/50, Drawing ground floor and basement column application plans at 1/50 - 1/20, Drawing beam details at 1/20, Drawing details of stairs at 1/20.

**MYR 233 Construction and Building Elements I 2+0 2,0**  
Concrete and Reinforced Concrete Building: Concrete materials, Historical development of reinforced concrete buildings, Behaviors of construction elements under loads, Design principles of reinforced concrete buildings; Examining the Elements of Reinforced Concrete: Foundations, Columns, Beams, Floors, Stairs, Roofs; Suspended Ceilings, Raised Floors.

**MYR 235 Project in Basic Mechanical  
Installation 2+0 3,0**

Definition and Scope of Mechanical Installation: Sanitary installations: Clean water installations, Dirty water installations, Hot water installations, Fire installation, Rainwater installations, General information and basic calculations about Pressure Tank and Basic calculations, Definition and symbols of armatures, Principles of drawing up sanitary installation projects; Installation of central heating system; General Information about heating installations Calculation of heat loss, Drawing a heating system installation project.

**MYR 236 Analysis of System and Design 2+2 3,0**  
Operating Principles of CAD-based Computer Programs Used in Construction Sector; Program Commands; Exercise on Commands, Drawing of the Plan, Section and External View of an Architectural Project with CAD-based Computer Program; Modelling a Two-dimensional Project as a Three-dimensional Project together with Environmental Layout.

**MYR 237 Project in Basic Electric Installation 2+0 3,0**  
Electricity Installation Project: Low current installation, High current installation; Basic Principles of an Electricity Project: Electricity installation inside the building, Switches, Lamp, Conduits, Energy lines, Distribution of energy; Electricity Installation Project at a scale of 1/50; Illumination Project; Electric Lights of Stairways; Symbols Used in Drawings; Drawing Illumination Projects; Telephone Installation; Low Current Installation Applications: Electrically-operated bell installation, Fire-alarm installation, Power installation project.

**MYR 238 Computer Aided Architectural  
Presentation Techniques 2+1 3,0**

Modelling an Architectural Project in Three Dimensions in CAD-based Computer Programs; Setting and Coloring; Creating a Realistic Image by Adding Symbols of Environmental Factors such as Human Beings, Trees and Vehicles; Provision of Presentations upon Plot; Presenting the Project through Animation.

**MYR 239 Modeling I 2+2 3,0**

Definition; Purpose; Uses of Models; Presentation of Materials Used in Model Making; Definition of Mass and Floor Model Concept; Comprehending Architectural Projects; Introducing Different Mass Construction Innovators (Advanced) and Completed Projects; Choosing Materials According to Model Scale; Investigating and Application of Stairs and Floor Cavity in Floor Models; Consideration given to Window and Door Cavities and Application; Investigating and Executing Set Back and Sail Over of Mass: Balcony, Façade, Roof; Demonstration of Techniques for Pavement; Avenue, Building Sites in Slopping Land; Study of Landscapes and Urban Equipment in Relation to Neighboring Constructions; Constructing Floor Models According to Completed Projects; Locating Models to Land

**MYR 240 Modeling II 2+2 3,0**

Definition; Purpose; Use of Models; Presentation of Materials Used in Modeling; Defining Detail and Interior Modeling Concept; Understanding Architectural Projects; Investigating and Executing Range of Building Elements in Detailed Models; Choosing Model Materials According to Range of Building Elements in Detailed Models; Investigating and Executing Windows and Door Cavities in Interior Models; Choosing a Covering Material for Stairs and Floor in Interior Models; Investigating and Executing Furnishing for the Kitchen, Toilets And Etc.; Investigating and Executing Furnishing for Bedrooms in Interior Models; Investigating and Executing Furnishing for the Living

Room and other Spaces in Interior Models; Investigating and Executing Landscape and Neighboring Constructions.

**MYR 241 Architectural Practice Project I 2+2 5,0**

Choosing Project Topic; Conducting Need Analysis; Function Schema-Relationship Between Space; Drawing Appropriate Scale Plans; Identifying Building Elements and Drawing an in scale Plan: Drawing walls; Axis; Column; Doors and Windows; Drawing Dimensions; Fixtures - Closets; Sinks; Drawing Techniques for Building Sections; Drawing Fundamentals: Floors, Walls, Doors and Windows in Section; Drawing the Roof; Floor Heights; Coordination Floor Information to Space in Section; Introducing Set Back and Sail Over in Surfaces in View; Drawing with Perspective.

**MYR 245 Architectural Practice Project II 2+3 6,0**

Choosing the Project Topic; Conducting Need Analysis; Function Schemes; Drawing Appropriately Scaled Plans; Identifying Building Elements and Scaling Walls, Axes, Columns, Doors and Windows According to the Plan; Drawing Dimensions; Fixtures- Closets; Sinks; Drawing Techniques for Building Sections; Drawing the Foundation, Floors, Walls, Doors and Windows Sections; Drawing the Roof; Floor Heights; Introducing Set Back and Sail Over in Surfaces in View; Perspective Drawing.

**MYR 246 Construction and Building Elements II**

**2+0 2,0**

Prefabrication: Definition of Prefabrication; Development of Prefabrication; The Features of And Classification of Prefabrication; Structures Built With Prefabricated Materials; Skeleton System; Panel System; Cell System; Composite System; Joining Details of Prefabrication Elements; Prefabrication Surface Elements; Prepared Floor Elements; Precast Stair Elements; Steel Buildings; Using Steel in Buildings; Joining of Steel Buildings; Elements of Steel Building; Wall; Floor; Stair and Steel Roofs; Contemporary Carrier Systems.

**MYR 247 Interior Decoration I**

**2+0 3,0**

Concepts of Interior and Exterior Space; Selection and Discussion of a term Project; Drawing of a 1/50 scaled plan for each student; Preparation of a needs list for each project; Selection of appropriate construction and interior decoration materials; In class discussion of each selection with support from relevant journals and books; Placement of materials into the 1/50 scaled plan; Discussion of student performance; Drawing of a crosscut of the selected project in 1/20 and 1/5 scales; Corrections and feedback to the students; Placement of furniture and materials into these new scale plans; Discussion and feedback to the students; Preparing for the final presentation; The final presentation; Evaluation of student projects.

**MYR 248 Interior Decoration II**

**2+0 3,0**

Concepts of Interior and Exterior Space; Selection and Discussion of a term Project; Drawing of a 1/50 scaled plan for each student; Preparation of a needs list for each project; Selection of appropriate construction and interior

decoration materials; In class discussion of each selection with support from relevant journals and books; Placement of materials into the 1/50 scaled plan; Discussion of student performance; Drawing of a crosscut of the selected project in 1/20 and 1/5 scales; Corrections and feedback to the students; Placement of furniture and materials into these new scale plans; Discussion and feedback to the students; Preparing for the final presentation; The final presentation; Evaluation of student projects.

**MYR 249 Design for All**

**2+1 3,0**

Approaches of Design for All and Universal Design; Design and the Issue of User in Design: Different user groups in design; Human Rights and Disability Approaches; User Needs and Problems in the Built Environment; Responsibilities of Built Environment Professions; The Principles of Universal Design; Good Examples of Design for All Approach and Related Standards; Universal Design for Learning: Accessibility of educational environments and course materials; National and International Laws and Regulations for the Disabled; Investigating User Needs and Problems in the Built Environment and Developing Proposals.

**MYR 251 Building Information I**

**2+1 3,0**

The require program and function diagram for Residential buildings, The buildings housing departments, locations, and measures used in the furniture, Orientation of residential buildings, Analysis of Residential Buildings on Sample Projects: Single houses, row houses, twin houses, terrace houses, duplex houses, triplex houses, villas, Apartment types: Discrete layout apartments, block apartments, Point-type apartments.

**MYR 252 Building Information II**

**2+1 3,0**

Analysis of Office Buildings Through Case Studies: Needs program, Function diagram, functions of Spaces, Education Buildings Investigation: Needs program, the function diagram, the functions of spaces; Accommodation Buildings Investigation: Needs program, the function diagram, the functions of spaces; Transport Investigation of Buildings: Needs program, the function diagram, functions of spaces; Sports Buildings Investigation: Needs program, the function diagram, the functions of the spaces; Health Buildings Investigation: Needs program, the function diagram, the functions of spaces; Commercial Building Analysis: Needs program, the functions diagram, the functions of spaces.

**MYR 253 Professional Language III**

**3+0 2,0**

Basic Concepts of Architecture: Accessibility in built environment, User needs, Disability, Accessibility standards; Basic Concepts of Building: Concrete buildings, Concrete building parts; Basic Concepts of Modeling; Basic Concepts of Statics Projects; Basic Concepts of Electrical Installation Projects; Exercises to Improve Professional Language Related to Architecture and Architectural Drafting; Preparing for Working Environment of Architectural Offices: Work processes in architectural offices, Work groups.



**MYR 254 Professional Language IV 3+0 2,0**

Basic Concepts of Architecture: Brief, Building function diagram, Building types and function diagrams; Basic Concepts of Building: Structure types, Timber frame structures, Steel structures, Prefabricated structures; Exercises to Improve Professional Language Related to Architecture and Architectural Drafting; Preparing for Working Environment of Architectural Offices: Definitions of portfolio and curriculum vitae, Preparing portfolio and curriculum vitae, Important considerations regarding job applications.

**MYR 255 Individual Architectural Drafting Language Support Courses III 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of Architectural Drafting: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**MYR 256 Individual Architectural Drafting Language Support Courses IV 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of Architectural Drafting: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**PPT 118 Perspective 2+1 3,0**

Definition and Types of Perspective; Parallel perspective, Inclined perspective, Axonometric perspective; Inclined perspectives: Cavalier perspectives, Military perspectives, Cabinet perspectives, Isometric perspectives, Diametric perspectives, One point perspective: Drawing in-room, perspectives Conical perspective, Viewpoint, View distance, Earth Line, View Height, Main point, Escape point, View angle, Drawing planes, Measuring point, Horizontal line, Height in perspective, Drawing Perspectives of Inclined Surfaces, Drawing Perspectives of Roof Surfaces.

**PPT 121 Technical Drawing and Perspective in Ceramics I 2+1 5,0**

Basic Information: Definitions, standards; Drawing tools and materials; Scales; Lines, Writing; Geometrical Drawings; Areas, Parallel Lines, Spirals, Slopes, Tangents; Projection; Drawing objects: One view, Drawing perspective view; Perspective: Conic perspective, Parallel perspective; Cross section: Full cross section, half cross section, Portion cross section

**PPT 122 Technical Drawing and Perspective in Ceramics II 2+1 3,0**

Fundamentals of Perspective: Definition of Conic Perspective, Parallel Perspective, Types of Cross Section; Full Cross Section, Half Cross Section, Partial Cross

Section, Rake Cross Sectional Areas and their angles, Measurement; Rules of Measurement, Introduction of Ceramic Forms; Flower Pots, Pencil Boxes, Vases, Knickknacks, Plates, Bowls, Coffee and Tea Cups, Introduction of Industrial Ceramic Forms; Washbasin, Bathtub, Ceramic Kitchen Materials, Application of Defined Ceramic Forms; Measurement and Cross Section.

**RSM 217 Painting 2+1 3,0**

Different Perceptions of the Same Object: Different designs and linearity of same object; Deformation of an Object Keeping its Characteristics; Stylization; Abstraction Methods and Interpretation; Painting Techniques: Wash and Brush, Water color, Gouache, pastel; Line, Point and Shadow: Pencil, Charcoal, Pen and ink; Composing Objects; Expressing Emotion.

**RSM 221 Painting 2+1 4,0**

Different Perceptions of the Same Object: Different designs and linearity of the same object; Deformation of an Object without Change on Basic Characteristics; Stylization; Abstraction Methods and Interpretation; Painting Techniques: Wash and brush, Water color, Gouache, Pastel; Line, Point and Shadow: Pencil, Charcoal, Pen and ink; Creating Compositions with Objects: Expressing Emotions; Studying Objects: Natural and Artificial Objects.

**RSM 231 Printmaking I 3+2 5,0**

Printmaking: History of printmaking, Turkish and foreign artists of printmaking, Well-known works of printmaking; Techniques of Printmaking: Monotype print, Material print, Stencil print, Positive print, Negative print, Single and multi-color prints with natural and artificial materials, Stencil print with single and double blocks, Mono and polychrome prints; Printmaking Exercises; Interpretation: Interpretations of natural objects.

**RSM 232 Printmaking II 3+2 5,0**

Relief Printing: History of relief printing, Techniques of relief printing: Linoleum print, Wood print; Blocks of Linoleum Print: Single-block print, Poly-block print, Mono-color print, Polychrome print; Blocks of Wood Print: Single-block print, Poly-block print, Mono-color print, Polychrome print; Copying Exercises; Studio; Interpretation; Stylization.

**SAN 115 Basic Design I 6+2 7,5**

Plastic Arts, Fundamental Elements of Visual Language, Principles and Light: Light and shade on natural objects, Light and shade on artificial objects, Pencil drawing, Model with charcoal; Dot: Definition, possibilities, characters and arrangement of dots; Rhythm; Line: Definition, possibilities, types of natural line, Types of artificial line, Line drawing with pencil, ink and paint; Texture: Definition of texture, Studies on texture, Artificial texture, Natural texture, Contemporary texture, Surface texture, Three-dimensional texture.

**SAN 116 Basic Design II** 6+2 7,5

Color: Definition of color, Types of Color; Color Spectrum; Color Psychology; Color and Form; Color and Function; Color Contrasts: Complementary contrast, Simultaneous contrast, Simple contrast, Hot-Cold contrast, Quantity contrast; Dark-light contrast, Quality contrast; Structure: Definition, Mobile element, Form repetition, Superficial Structure; Three Dimensional Structure; Form Production; Principles of Design: Composition, Similarity, Balance, Directions, Dense-Sparse, Light-Dark, Big-Small, Empty-Full, Contrast, Organic- Inorganic, Review.

**SAN 155 Hall Dances** 0+2 2,0

Basic concepts. The ethics of dance, Dance Nights, Dance Costumes, National International Competitions and rules/grading, Basic Definitions, Classifications of Dances: Social Dances; Salsa, Cha Cha, Samba, Mambo, Jive, Rock'n Roll, Jazz, Merenge; Flamenco, Rumba, Passa - Doble, Argentina tango, Vals, Disco, Quickstep, Foxtrot, Bolero, European Tango: Ballroom Dances; Sportive Dances; Latin American Dances; Samba, Rumba, Jive, Passa-Doble, Cha Cha, Standart Dances; European Tango, Slow vals (English), Viyana vals, Slow foxtrot, Quickstep.

**SER 114 Basic Art II** 2+3 7,0

Color: Definition of color, primary colors, secondary colors, color scale, psychology of color, connection between color and form, connection between color and function, contrasts of color, supportive contrast, simultaneous contrast, bare contrast, hot-cold contrast, quantity contrast, light-dark contrast, quality contrast; Structure: Definition, mobile elements, repetition of form, surface structure, 3 dimensional structure, Producing forms with associations; Principles of design: Composition, similarity.

**SER 117 Drafting Techniques** 2+0 2,0

Description of Drafting: plastic components, Line, Rhythm, Composition, Harmony, Light and Dark Texture, Application of line, Application of Light and dark, Application of texture, Techniques of changing quality, Adding space, Adaptation, Changing the surrounding, Changing the position, Changing the material and texture, Changing Movement, Providing visible attraction, Providing emotional attraction, Constructional Transformation, Metamorphosis.

**SER 119 Art Terminology** 2+0 2,0

Concept of Art; Classification of Art; Basic Concepts of Art; The Beginning of Art and Its Function; Function of Art and Nature; Art and Society; Historical Development of Art Criticism; Art and Science; Fine Arts and Classification of Fine Arts; Plastic Arts: Architecture, Painting, Sculpture, Relief; Phonetic Arts: Literature, Music; Rhythmic Arts: Dance, Ballet, Sports Games.

**SER 125 Fundamentals of Ceramics I** 3+3 6,0

Teaching Ceramics: Definition and Development of Ceramic art, Ceramic production: Materials, Raw materials, Tools, Preparing clay, Shaping, Drying and Firing, Shaping

methods: Plate shaping, Shaping by hand and Coiling; Forms: Plate, Vase, etc.; Design elements: Line, Texture, Point; Glazing methods: Spraying, Dipping, etc. Firing; Biscuit firing, Glaze firing.

**SER 126 Fundamentals of Ceramics II** 2+2 6,0

Mud: Shaping methods; Types of muds; Orientation of the study; Idea, Scheme, Project; Creative Exercises; Techniques of mud shaping: Pinching, Coiling, Pressing; Two- and Three-dimensional Works: Vase, Snack cups, Mask, Coffee cup and plates, Walls, Lighting, Shoes, Hat, Gloves, Shirt buttons, Clock, Ash bucket, Box , etc.

**SER 127 Basic Art I** 2+3 7,0

Plastic Arts, Fundamental Elements of Visual Language, Principles and Light: Light and shade on natural objects, Light and shade on artificial objects, Pencil drawing, Model with charcoal; Dot: Definition, possibilities, characters and arrangement of dots; Rhythm; Line: Definition, possibilities, types of natural line, Types of artificial line, Line drawing with pencil, ink and paint; Texture: Definition of texture, Studies on texture, Artificial texture, Natural texture, Contemporary texture, Surface texture, Three-dimensional texture.

**SER 128 Plaster Model Building** 3+3 6,0

Definition of Plaster; Preparing Plaster; Tools Used for Plaster Model Shaping: Knife, Saw, Spatula, Sponge, Cup, Liquid Soap, Resin, Block Plank and Clamp in Different Sizes, Sandpaper; Daily Use of Plaster; Definition of Plaster Models; Methods of Plaster Model Shaping: By hand, by lathe.

**SER 130 Ceramic Raw Materials** 2+0 4,0

Definition of Raw Material; Raw Materials Used in Ceramics: Plastic raw materials, Non-Plastic raw materials; Plastic Ceramic Raw Materials: Kaolin group, Montmorillonite group, Illite group; Non-Plastic Raw Materials: Kuarz, Feldspar, Pegmatite, Kalk, Magnesite, Dolomite, Wollastonit, Bauxite, Corundum, Talk, Samot, Silicium Carbide, Zircon Oxide, Calcium Phosphate; Oxides Used for Coloring Ceramic Clay and Glazes: Copper Oxide, Iron Oxide, Cobalt Oxide, Manganese Dioxide, Nickel Oxide, Antimon Oxide, Titan Dioxide, Cromium Oxide.

**SER 131 Language of Ceramic Art I** 2+0 3,0

Primitive Ceramic Art; Pottery; Cruse; Ritual Cups; Idol; Primitive Firing; Red Clay; Hittite and Phrygian Civilizations; B.C.; A.D.; Terracotta; Terrasigillata; Slip; Glaze; Shape: Cubic, Cylindrical, Conical, Conglobate, Concave, Convex; Teapot; Vase; Flowerpot; Shaping: Pinch, Coil, Plaque, Decor, Decoration, Relief, Marker, Carving, Hemstitch, Contour; Dimension; Proportion; Size; Drawing; Portrait; Figure; Bust; Sculpture; Sketch; Detail.

**SER 132 Language of Ceramic Art II** 2+0 3,0

Intruducing the Applied Courses in Undergraduate Program in Ceramic Arts; Exhibition: Personal exhibition, Mixed exhibition; Gallery; Contest; Catalog; Examining various

exhibitions and contest catalogs; Ceramic Contests in Turkey; Collections; Photography; Portfolio (preparing a personal file); Regional pottery; Pottery in Eskisehir and its vicinity; Pottery in Kinik village, Pottery in Sorkun village; Well-known ceramic artists in the world and in Turkey; Technical Terminology Used in the Courses throughout the Semester.

### **SER 218 Ceramic Technology and**

#### **Application II**

**3+2 6,0**

Ceramic Glazes: Using oxides, coloring oxides, Pigments and other compounds. Varieties of glazes, Crystalline, Aventurine, Running glaze, Matt, Crackle, Crawling, Luster, Artistic, Industrial glazes. Techniques and characteristics of glazing. Viscosity, Thermal expansion, Thermal stress, Hardness, Flowing, Liter weight, Boume, Faults of glaze; Dependence on raw material, Application and firing. Glaze Research: Formulae with three different raw materials, Color works.

### **SER 223 Shaping Clay**

**2+1 2,0**

Three dimensional forms experimented with Ceramic clay, Mud making, Kneading, Passing through Vals; History of three dimensional forms in ceramics: shaping techniques of ceramic clay and forms: The method of sausage; the method of pinching; shaping with the methods of plague and board, Hamak Mould; shaping with Mould and pressing to Mould, Methods of shaping ceramic clay by throwing.

### **SER 236 Throwing Clay Wheel Techniques**

**3+3 7,0**

Throwing Clays: Plasticity of clays and other raw materials, Throwing methods by hand. Preparing clays: Mixing, Ensuring plasticity, Airing, Centering and opening up, Lifting, Thinning, Cylinder making in standard sizes and setting footing; Forms: Cylinder, Bowl, Plate, Handle, Spherical vase; Decoration methods: Slip, Dropping, Trailing, Sgraffito, Stamps, Texture, Colored glaze.

### **SER 245 Plaster Mould Shaping**

**3+3 7,0**

Definition of Pin; Definition of Bevel; Definition of Lock and its Applications; Materials Used in Plaster Molds: Liquid soap, Brush, Block planks and clamp for mold in different sizes, Hard and soft planes; Introducing Types of Plaster Molds, Methods of Making Plaster Molds.

### **SER 253 Language of Ceramic Art III**

**2+0 3,0**

Introducing techniques of ceramic firing: Biscuit firing, Glaze firing, Mono firing, Primitive firing, Reduction firing, Oxidation firing; Introducing ceramic kilns: Periodical kilns: Open plain kilns, Cabin kilns, Circular kilns with dome, Kassel kilns, Bell kilns, Zigzag kilns, Tunnel kilns; Fuels of ceramic firing; Measuring and Controlling Temperatute in Ceramic Kilns: Thermo electric pyrometer, Optical pyrometer, Thermocupule, Temperature measurement devices used in ceramics; Technical Terminology Used in the Courses throughout the Semester.

### **SER 254 Language of Ceramic Art IV**

**2+0 3,0**

Potter's Wheel; Primitive Wheels, Engine-driven Wheels; Age of Engines; Throwing Clays; Preparing Clays for

Throwing: Tools Used in Throwing: Modeling tools, Rib, Sponge, Fishline; Leatherhard; Cleanup; Fixing a Handle; Fixing Hand Leslugs; Fixing a Spout; Seger formula; Calculation of Seger Formula; Calculation of recipe; Chemical analysis; Glaze; Colourants; Oxides; Colouring oxides; Experiments on clays and kaolins; Experiments on feldspars and quartz; Technical Terminology Used in the Courses throughout the Semester.

### **SER 257 Methods of Glazing and Firing I**

**2+2 3,0**

Ceramic Glazes and Classification of Glazes; Definition and Uses of Glaze; Artictic and Industrial Glazes; Matt, Crawling, Fluid, Crackle, Crystalline, Chrome Red, Aventurine Glazes; Porcelain, Tile, Floor Tile; Properties of Glazes: Specific gravity, Boume degree, Sieve rest; Methods of Glazing: Dipping, Pouring, Spraying, Brushing; Glazing and glaze Defects: Blistering, Peeling, Pinhole, Over melting; Applied forms: Vase, Pencil holder, Ashtray, Snack plate, plates.

### **SER 258 Methods of Glazing and Firing II**

**2+2 3,0**

Firing: Changes that take place during glazing and firing, Firing temperatures; Ceramics Kilns and Their Types: Primitive, Wood, Hill, Desert, Camera, Electrical, Gas, Natural gas; Firing Methods: Oxidation, Reduction; Firing principles: Constantly, Periodically; Glazing Methods: Dipping, Pouring, Brushing, Spraying, Over lapping, Dusting; Glaze Defects: Body-related, Firing-related, Application-related defects.

### **SER 259 Ceramic Pattern I**

**2+2 4,0**

Ratio and Proportion: Basic geometrical shapes and sketches, Sketching live and other models, Forming two dimensional volume and depth: Perspective of line, Perspective of air; Spot: Light and shadow on live and other models, Pencil, Lavi, Water color, charcoal. Anatomy: Nude, Hand, Foot drafts; Strenghtening the power of observation in details; Searching the experimental behavior through various drawing materials: Pencil, water color, Charcoal, Ceramic materials.

### **SER 260 Ceramic Pattern II**

**2+2 4,0**

Ratio and Proportion: Basic geometrical shapes and sketches, Sketching live and other models, Forming two dimensional volume and depth: Perspective of line, Perspective of air; Spot: Light and shadow on live and other models, Pencil, Lavi, Water color, charcoal. Anatomy: Nude, Hand, Foot drafts; Strenghtening the power of observation in details; Searching the experimental behavior through various drawing materials: Pencil, water color, Charcoal, Ceramic materials.

### **SER 261 Open Space Ceramics**

**2+2 4,0**

Classification and Definition of Open Space Ceramics: Wall Panels, Modular Wall panels, Free Style wall Panels, Ceramic Sculptures; Figurative Ceramic Sculptures, Abstract Ceramic Sculptures, Garden Ceramics; Animal Figures; Functional Garden Ceramics, Industrial Open Space Ceramics; National and International Ceramic Artist Specialized in Open Space Ceramics; Evaluation of

Samples of National and International Open Space Ceramics; Preparation of a Project and Application the Project to a Determined Area.

### **SER 271 Ceramic Technology and Applications**

#### **I 2+2 6,0**

Description and History of Ceramic; Development of Ceramics; Technological Developments; Classification of Ceramic Products; Porosity and Non-Porosity of Ceramics; Low Temperature and High Temperature Firing Products; Clay and Kaolinite; Their Formation, Classification and Reaction to Temperature; Non Plasticity Raw Materials and Their Formation; Silica; Feldspar; Calcite; Dolomite; Pegmatite, Marble, Chalk; Experiments; Water of Plasticity; Density; Drying and Firing Shrinkage; Water Absorption; Machines For Giving Shape; Pottery Water of Plasticity; Wheel; Jigger.

### **SER 272 Ceramic Technology and Applications**

#### **II 2+2 6,0**

Ceramic Glazes; Using Oxides; Coloring Oxides; Pigments and Other Compounds; Varieties of Glazes; Crystalline; Aventurine; Running Glaze; Matt; Crackle; Crawling; Luster; Artistic; Industrial Glazes. Techniques and Characteristics of Glazing; Viscosity; Thermal Expansion; Thermal Stress; Hardness; Flowing; Luster Weight; Boume; Faults of Glaze; Dependence on Raw Material; Application and Firing; Glaze Research; Formulae with Three Different Raw Materials; Color Works.

### **SER 273 Technological Practice I 2+3 5,0**

Glaze: Definition of glaze, Raw materials forming glaze and their classification; Triangle Diagram: Drawing a triangle diagram, Analysis of a triangle diagram, Formulating a recipe in percentage, Converting raw materials from percentages to gr. or kg., Weighing raw materials given in a triangle diagram, Applications on a test plate, Firing; Seger Formula: Classification of oxides using Seger formula, Calculation of transition from chemical analysis to Seger formula, Calculation of transition from Seger formula to recipe, Calculation of transition from recipe to Seger formula; Calculation of Surface Tension at Glaze; Calculation of Expansion at Glaze.

### **SER 274 Technological Practice II 2+3 5,0**

Industrial and Artistic Glazes; Artistic Glazes: Matt glazes, Crackle glazes, Crawling glazes, Fluid glazes, Cristaline glazes, Aventurine glazes; Reduction Glazes: Luster glazes, Red glazes, Celadon glazes; Raku Glazes; Sagar Firing; Various Ceramic Glaze Defects and Ways of Eliminating Glaze Defects; Preparing a Test Plate; Artistic Glaze Exercises.

### **SER 337 History of Traditional Ceramics Art 2+0 3,0**

Turkish Ceramic Art in Pre-Islamic Times: Samples form Uigur and Karluk Turks, The Origins of Turkish Tile and Ceramic Art; Samples from Samanoğlu, Abbasi, Gazne, Fatimid and Seljuk ceramic and tile art, Tile and Ceramic Art in Anatolian Seljuks; Tile Making Techniques in Anatolian Seljuks; Use of Tiles in Architecture; Tile and

Ceramic Art in the Period of Principates; Milet ceramics, Ottoman Tile and Ceramic Art: Ottoman tile techniques and samples, Samples form İznik, Kütahya, and Çanakkale Ceramics; Recent Local Ceramic Workshops.

### **SER 367 Technical Decoration Methods I 2+2 3,0**

Methods of Technical Decoration: Clay decoration, Basic handmade decorations, Spangle decorations, Wax decorations, Airbrush, trailer, brush; Using brushes, Under glaze, Majolica, stain, On glaze, Under glaze, In glaze. Choosing designs, Preparing stain colors, Biscuit firing, High temperature stains, Applying, Glazing, Glaze Firing.

### **SER 368 Technical Decoration Methods II 2+2 3,0**

Research for in-glaze (majolica) Method: History of majolica technique, Different designs, Choice of designs on the ceramic form (cup, wall plate, wall panel) Applying with handmade decoration, Firing, On-glaze techniques; Choosing the design for different ceramic forms; Handmade on-glaze decorations, Firing.

### **SER 369 Methods of Plaster Mold Duplication I 3+3 6,0**

Shaping the Model of Plaster by Hand: Cornered models, Complex models; Model Shaping on Plaster Wheel: Cylindrical models, Spherical models; Model Shaping on Pattern; Types of Models: Ashtray, Pencil box, Vase, Plate, Oval plate, Little bowl, Flower pot; Retouching the Model; Introduction to Mould Separators; Making Moulds Suitable for the Form of Models: Smoothing moulds, Preparing the moulds for duplication.

### **SER 370 Methods of Plaster Mould Duplication**

#### **II 3+3 6,0**

Definition of Duplication; Mould; Purpose of Duplicating Moulds; Uses of Mould Duplication; Methods of Duplicating Moulds Used in Factories, Comparison of Factories Using Methods of Mould Duplication; Necessary Materials, Stages of Mould Duplication; Mould Duplication Production.

### **SER 371 Artistic Ceramics I 3+3 6,0**

Introduction to artistic ceramics: Artistic and technical knowledge, Local and Foreign artists in the field of artistic ceramics, Introduction to their works of art, Examination of their works of art; Stages of Project: Abstract and realistic three dimensional practices indoor and outdoor places, Trying Scale Model; Stages of Construction: Shaping by hand, Coiling method, Slabbing method, Topping up, Segment addition, Sgraffitto, Piercing, Throwing, Drying, Biscuit firing, Slipping, Oxidation; Glaze trials, Glazing, Glazy firing; Evaluation of works of art.

### **SER 372 Artistic Ceramics II 3+3 6,0**

Artistic Movements in Ceramics: Characteristics of Artistic Ceramics: Classical-Modern, Synthesist and Conceptual Movements in Ceramics, Designs and Applications Reflecting These Movements; Preparing sketches, Solving design and application problems on sketches, Transforming designs into ceramic works using the appropriate technique,

Drying and firing these works; Evaluating, criticizing and discussing the products.

**SER 375 Language of Ceramic Art V** 2+0 3,0  
Introduction of traditional Turkish ceramics; Description of encaustic ceramics; History of encaustic ceramics; Design; Project; Role of the designer in ceramic design; Form; Aesthetics; Ergonomics; Technical drawing; Drawing; Decoration; Decoration techniques: Decoration on wet clay, Underglaze decorations, Inglaze decoration, Onglaze decorations, Serigraphy printing, Equipments used in ceramic decoration; Research on art movements: Naturalism, Impressionism, Expressionism, Symbolism, Realism, Romanticism, Surrealism, Cubism; Technical Terminology Used in the Courses throughout the Semester.

**SER 376 Language of Ceramic Art VI** 2+0 3,0  
Ceramic glazes: Artistic glazes, Industrial glazes; Glazing techniques; Studying and Interpreting the Works of Turkish and foreign ceramic artists; Pre-islamic Ages; Hun, Gok Turk, Uighur, Seljuk, Memluk and Zengi civilizations; General information about Anatolian Seljuks; Technical Terminology Used in the Courses throughout the Semester.

**SER 377 Surface Design I** 2+2 4,0  
Relations: Definition of Form, Definition of Background, Form and Background relations, Studying Natural Objects, Composition rules, Converting to Design; Arranging the Surface system: Design with Geometrical elements, Definition of Square and its effects on composition, Definition of triangle and its effects on composition, Relations among of Geometrical elements, Arrangement, Design by Pencil Drawing: sketch, light and shade.

**SER 378 Surface Design II** 2+2 4,0  
Basic rules for forming the Design on Picture surface: Definition of contrast, Its effect on design, Minority-majority, Big-small, light-dark, empty-full units, Directions, Matt-bright, Organic-inorganic, Similarity, Repetition, Balance, Systematic design: Forming the design through reproduction, Stylization: Converting the shape into a plain state; Simplifying the expression: Deformation: Increasing the shape, Dense expression, Forming a personal language, Forming problems on surface, Solving surface problems.

**SER 379 Clay Wheel Applications I** 2+2 4,0  
Introducing a ceramic wheel; comparing traditional and modern wheels, history of clay wheel, production centers using wheels in Turkey, artists and samples from their works, Introducing good wheel clays, Red and white wheel clays, kneading clay; Centralizing; Lifting-lowering; cylinder making on the wheel; Hemisphere making on the wheel, making different forms using cylinder and hemisphere, making handle, tap; Decoration through slipping techniques.

**SER 380 Clay Wheel Applications II** 2+2 4,0  
Techniques of shaping on a wheel, Different forms and their shaping techniques, high cylindrical forms. Big pots, handles and tabs. Decorating forms through different

decoration techniques, Introducing polishing tools, making artistic glazes, firing.

**SER 392 Ceramic Restoration** 2+1 3,0  
Restoration of Ceramic Works; Fundamental Techniques in Ceramic Restoration; Materials Used in Ceramic Restoration: Chemicals and adhesive substances used in ceramic restoration, Cleaning of ceramic foundlings, Glazed and unglazed ceramics, Structural feature of ceramic foundlings, Corrosion of ceramic foundlings, Causes of corrosion, Combination of ceramic pieces, Complementation, Completing the work with gyps, Strengthening, Plotting of foundlings, Technical drawing, Drawing decorations and form.

**SER 418 Portfolio Design** 2+2 5,0  
Performing Personal Presentation: Effective and clear presentation of organized projects, Formal preferences about presentation, Electronic or bag portfolio, Portfolio Preparation: Determination of target group of portfolio, Deciding on presentation format, Final determination of projects to present, Preparations about technique and format, Supplying necessary materials, Determination of printing style of works, Portfolio preparation on computer, Presentation: CV design and making copies of CV, presentation about CV.

**SER 431 Ceramic Technology** 2+2 5,0  
Physical Characteristics of Ceramic Raw Materials: Viscosity, Sieve analysis, Plasticity, dry, firing and total shrinkage, Water absorption, Dry strength, Chemical characteristics of raw materials, Calculation of glaze, slip and clays using chemical analysis formulations, Mineralogical formula, Seger formula, Surface tension and thermal expansion in the glaze, Laboratory investigations; Effects of coloring oxides in the glaze, Body and slips, Artistic glazes.

**SER 466 Shaping Sculptural Forms on Wheel Throwing** 2+2 4,0  
Production of Artistic Ceramic Forms on The Wheel; Production of Ceramic Statues on The Wheel; Developing Skills in Making Original Forms; Making New Ceramic Forms Using Different Techniques; Firing Ceramic Forms in Different Environments; Preparing Original Clay; Preparing Clay in High Temperatures; Drying; Firing; Glazing; Glazed Firing.

**SER 467 Designing and Shaping Functional Forms on Wheel Throwing** 2+2 4,0  
Forming and Analyzing Complex Forms on the Wheel; Production Techniques; Ergonomic Research; Functional Forms; Capacity Calculations; Designing Ergonomic Forms: Tea Sets, Coffee Sets, Dining Sets, Saltshakers, Peppershakers, Oil and Vinegar Holders; Making Simple Human and Animal Figurines; Making Larger Forms on Wheel; Making Potbellied and Slender Necked Forms.

**SER 471 Ceramic Slips and Technologies 2+0 2,0**

Ceramic slips: Definition of Slips, History of slip techniques, Equipment and tools for applying slip techniques; Slips that is made from main body clay, Sinter Slips, terra sigillata; Decor techniques with slips: mishima, Sgraffito, Mocha, Featring, pouring, Spraying and parafin decors.

**SER 472 Reduction Glazes and Technologies 2+0 2,0**

Reduction glazes: Description of glaze, Description of reduced atmosphere, History of reduction firing; Glazes that fired in reduced atmosphere: Copper red or Chinese red glazes, Celadon glazes, Luter glazes, Raku glazes, Saggur firing; Pit firing, Other reduced atmosphere glazes and firing techniques; Oxites that used in reduction glazes: Copper oxite, Iron oxite, Mangan oxite, Chrome oxite.

**SER 475 Methods of Ceramic Surface Design I 2+2 4,0**

Wall Ceramics; the Art of Ceramics; Industrial Ceramics; Design on paper for architectural Ceramics; the characteristic of art Ceramics; the wall Plate Design with free shaping methods; Model Practices; Detail Practices; Surface Design with methods of Production Industrial Ceramics; Wall Tiles, Bricks, Designs through various ceramic modular systems; Functional Ceramic Objects: Decorative design for Various cups such as Plates, Cups, Bowls, etc.

**SER 476 Methods of Ceramic Surface Design II 2+2 4,0**

Practicing with ceramic materials: shaping clay, glazing, firing; Wall ceramics: Designs specific for institutions, people, places; Experimenting with various materials and techniques: Decoration through underglaze, inglaze, onglaze techniques; Trying various firing methods: ?RAKU?, primitive kilns; Ceramic-Object Unity: Shaping with wooden, glass, metals, etc.; Practice; Presentation.

**SER 477 Language of Ceramic Art VII 2+0 2,0**

Industry; Industrial; Ergonomics; Floor tile; Tile; Toilet; Urinal; Clozet; Bide; Sink; pedestal sinks; Table ware and ornamental wares Artistic glaze; Characteristics of glaze and control techniques; Glaze defaults; Body; Colourants used in body; Three-dimentional form; Two- dimentional surface ceramic; Artistic; Formal; Original design; Critical thinking; Creative thinking; Artistic ceramic; Plastic art concepts; Vocational terminology about lessons in the semester.

**SER 478 Language of Ceramic Art VIII 2+0 2,0**

Standardization; Turkish standards; Duplication and duplication molds; Pomze; Application; Instalation; Garden ceramics; Wall elements; Separation; Slip; Temperature; Temperature degrees; Centigrade; Serigraphy; Equipment of serigraphy; Functional ceramics; Ceramic surface Design; Identity of artist; Portfolio; Vocational terminology about lessons in the semester.

**SER 479 Technical Decoration Methods III 2+2 4,0**

Technical Decorations: Direct screen, Indirect screen, Tile measurement, Floor, Wall, Border, Tiles; Tile design; Design stages, Choice of design, Border; Pattern design: Application, Color of separating, Negative drawing, Silk screen printing, Choice of mesh, Emulsion, Preparing emulsion screen ink, Application on mesh, Exposure, Exposure equipment, Exposure lamp, Time of exposure, Washing screen, Drying, Preparation for printing, Colors, Preparation for colors, Medium, Mixing color and medium, Printing tools, Primary experiment firing at 700-800oC, Evaluation.

**SER 480 Technical Decoration Methods IV 2+2 4,0**

Indirect Screen: Ceramic forms, Subject of design, studying the subject, Drawing, Color design, Color of separating negative drawing, screen, Choice of mesh, Exposure, Preparing screen, Colors, Preparation for colors, Thinner, Medium, Printing tools, Transfer paper, Preparing transfer paper, Preparation for colors with medium, Printing, Stage of printing, Drying printing, Polyurethane varnish, Printing varnish cutting equal-sized strips of the print, Removing the paper strips from the water, Squeezing out air bubbles, Firing at 800oC, Criticism.

**SER 491 Industrial Ceramic Design I 3+3 8,0**

Design Methods; Introductory Information on Industrial Design; Examination of the Products Related to Industrial Design; Bathroom Design Materials in Industrial Ceramic Products; Bath Sets and Accessories; Toilet; Sink; Soap Holder; Towel Holder; Mirror Frame; Brush Holder; Decorative Ceramic Products; Picture Frame; Vase; Office Set; Modular Industrial Wall Panel; Table China and Decorative Products; Illuminating Elements; Specific Industrial Pieces; Preparation of Projects; Research; Shaping; Preparing Models and Moulds; Comparison of the Product with Draft Project.

**SER 492 Industrial Ceramic Design II 3+3 8,0**

Definition and Analysis of Turkish Standards; Standards on Ceramic Products; Drawing the Projects of Industrial Products; Evaluating Design Projects in Accordance with Turkish Standards; Preparing Nucleus and Model; Moulds and Other Sub-Materials; Preparing Plate and Templates; Determining the Method of Molding; Appropriate Moulds for Industrial Production; Duplication and Duplicating Moulds; Producing; Plate Pads; Product Shaping; Casting; Assembling and Application; Retouching; Drying; Biscuit and Glaze Firing.

**SER 493 Artistic Ceramic Design I 3+3 8,0**

Aim of Design; Design Research; Two-Dimensional Surface and Three-Dimensional Form Designs; Ceramic Applications in Different Places; Techniques and Aesthetic Methods; Decoration Techniques; Surface Decoration with Artistic Slip and Glaze; Firing Methods; Saggur; Reduction; Open Firing; Sawdust Firing; Decoration Methods; Clay Ornament; Slip Trailing; Slips; Engobes and Glazes; Cumbing; Mishima; Siggraffito; Over and Under Glazes; Shaping Methods; Plaster Mould; Press; Hand Built;

Glazing Methods; Pouring and Splashing; Dipping; Spraying; Presentation; Final Project; Exhibition.

**SER 494 Artistic Ceramic Design II 3+3 8,0**

Designs and Applications; Two- or Three-Dimensional Forms; Ceramic Forms of Live Models Such As Birds; Sand Cuts; Garden Ceramics; Outdoor Furniture; Bird Houses; Wall Pieces; Separations; Glazing and Slipping for Decoration; Matt; Crackle; Aventurine; Ash Glaze; Terra Siggilatas. Firing; Saggur; Reduction Primitive-Open Firing; Presentation; Criticism; Exhibition.

**SER 801 Individual Seramic Arts Language**

**Support Courses I 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of Seramic Arts: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**SER 802 Individual Seramic Arts Language**

**Support Courses II 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of Seramic Arts: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**SER 803 Individual Seramic Arts Language**

**Support Courses III 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of Seramic Arts: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**SER 804 Individual Seramic Arts Language**

**Support Courses IV 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of Seramic Arts: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**SER 805 Individual Seramic Arts Language**

**Support Courses V 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of Seramic Arts: definition of professional terms, terms and issues in

various contexts and appropriate written / oral expresses and assessment.

**SER 806 Individual Seramic Arts Language**

**Support Courses VI 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of Seramic Arts: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**SER 807 Individual Seramic Arts Language**

**Support Courses VII 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of Seramic Arts: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**SER 808 Individual Seramic Arts Language**

**Support Courses VIII 2+0 2,0**

Types and characteristics of texts: story, newspaper / magazine news, expository text, functional texts, biography, review, descriptions, interviews, poetry, etc. writing, reading and oral expresses; Terms and topics of Seramic Arts: definition of professional terms, terms and issues in various contexts and appropriate written / oral expresses and assessment.

**SNT 229 Art History I**

**2+0 3,0**

Concept of Art and Artist; Function of Art in Social-Political-Cultural Changes From Prehistoric Times Until the Middle Ages; Development of Form and Style in Diffrent Periods, Concept of Beauty and Aesthetics and Samples form the Ancient Times; Comparing Eastern and Western Interpretations of Art; Relationship Between Religion and Art; Introducing Basic Resources.

**SNT 230 Art History II**

**2+0 3,0**

Function of Art in Social-Political-Cultural Turning Points From Middle Ages Until Today; Evaluation concepts of Architectural and Plastic Arts; Terminology of Art History; Emergence of Artistic Identity and Samples; Reflection of Social and Political Effects on Art in the 19-20th Centuries; 20th Century Turkish Art Platform; Developments in Architectural and Plastic Arts, Artists and their works.

**SNT 314 Turkish Art History**

**2+0 3,0**

Turkish Culture and Art Pre-Islamic, Hun, Gokturk and Uigur's Art; Effects of Seljuk, Mamluk and Zangid's Decorated Arts in Anatolia; Anatolian Seljuk's Works of Art: Stone, Wood, Tile, Brick Ornament; Principates and Early Ottoman Period's Works of Art; Classical Architecture in Ottoman Periods; Turkish Baroque and Empirical Styles; Turkish Handcrafts: Carpet, Kilim, Tile, Ceramic, Metal, Wood and Cloth Samples, Pattern and

Techniques; Development of Turkish Drawing; Western Painters and Turkish Artists; Republic Period Turkish Architecture: First and Second National Architecture Samples, Sculpture and Other Arts.

**SNT 329 History of Art 2+0 2,0**

Concept of Art and Artist; The Beginning of Art: First works of plastic arts. Economic, Social and Intellectual Structures during the Transition from Primitive Community to Civilized Society; Civilized Society; Transition from Social Arts to Individual Arts; Society and Civilization in Ancient Greek and Rome; Society and Civilizations in the Middle Ages: The Beginning of Christian Art and the Middle Age Art; Culture and Philosophy; New Age Society and Civilization; Renaissance; Discovery of Nature and Human Being; Nature and Art; Reforms; Thought Structure in the Nineteenth Century; Cultural Structure of Turkey; Developments in Architectural and Plastic Arts; Artists and Their Works.

**SNT 352 History of Turkish Art 2+0 3,0**

Turkish Art Before Islam; Turkish Art After Islam; Mosques, Tombs, Caravanserais and Palaces; Turkish Art in Anatolia: Anatolian Seljuks; Principates in Anatolia in the Fourteenth Century; Ottoman Art: Early Ottoman, Works of Art in the Reign of Suleyman the Magnificent; Sinan the Architect; Ottoman Art in the Seventeenth and Eighteenth Centuries; Works of Art in Late Ottoman Period, Early Republic Period.

**SOS 114 Office Personnel Behaviors 2+0 2,0**

Definition of Office and an Overview of Office Environments; Information on the Concepts of Office Personnel and Behavior; Definition and Characteristics of Personality; Definition and an Overview of Motivation; What is Perception? Attention and Interest; Definition of Stress and Defense Systems; Interaction and Agreement; Determining an Attitude and a Behavior; Determining an Objective and Achieving it; Establishing Good Communication in Workplace; Coping with Problem People; Creating an Image.

**TAR 161 Atatürk's Principles and History of Turkish Revolution I 2+0 2,0**

Reforms in the Ottoman Empire; Trablusgarp Battle; Balkan Battles; The First World War; Mondoros Cease-fire Treaty and Fall of the Ottoman Empire; Beginning and Organization of National Struggle by Mustafa Kemal Pasha throughout Anatolia: Mustafa Kemal Pasha's arrival in Samsun, Amasya Circular, Congresses of Erzurum and Sivas; Opening of the First Grand National Assembly; Sevres Peace Treaty; Foundation of Regular Army.

**TAR 162 Atatürk's Principles and History of Turkish Revolution II 2+0 2,0**

Fronts of Independence War: Eastern Front, Southern Front, Western Front; Battles on the Western Front: Battles of İnönü, Battles of Eskişehir and Kütahya, Battle of Sakarya, Major Offensive; Mudanya Cease-Fire Treaty; Lausanne Peace Treaty; Declaration of Republic; Revolution and anti-

Revolution; Foundation of Constitutional System; Politics during Turkish Republic: Domestic and Foreign; Fundamentals of Turkish Republic and the Background Intellectual Movements; Foundation of Democratic-Juridical State; Innovations in Law, Education, Economy and Social Life; Atatürk's Principles: Republicanism, Nationalism, Populism, Etatism, Secularism, Revolutionism; General Characteristics of Principles; Evaluation of Kemalism from an Ideological Perspective

**TAR 356 History of Culture 2+0 3,0**

What is Culture?; Culture and Personality; Culture and Art; Local and Universal Culture; Culture and Cultural Diversity; Personal Culture; Cultural Structure in Different Societies in History: Their effects on art and Interaction between these cultures; Comparison of Different Cultures; Effects of Culture on Art, Artist and Creativity.

**THU 203 Community Services 0+2 3,0**

Various Community Projects: Helping young students during their study periods or after school study sessions, Aiding the elderly in nursing homes, helping disabled individuals with various tasks, helping social services and aiding children with their education etc., take part in the projects which raise environmental awareness, Integrating with the community and enabling use of knowledge accumulated in the courses.

**TİP 109 Introduction to Typography 4+2 7,0**

Definition of Typography and Its Importance in Graphic Design; History of Typography; Origin of Orthography and First Alphabets; The Roman Alphabet; Development of Type and Typology: Typography in the late nineteenth and the twentieth century; Basic Terms of Typography; Anatomy of Type: Typeface, Typeface family, Typeface styles, Font, Measurement of type, Spacing, Tracking, Kerning, Leading, Negative spacing; Special Cases in Spacing.

**TİP 110 Typography I 4+2 6,0**

Classification of Typefaces; Basic Problems About Classification; Criteria for Typeface Classification: Typeface classification according to size, Typeface classification according to serif style; Typeface Style And Weight; Types of Typeface: Gothic type, Roman type, Classic romans, Transitional romans, Modern romans, Italics; Square Serifs; Sans Serifs; Script and Cursive; Novelty Types.

**TİP 211 Typography II 4+2 7,0**

Use of Typography as an Element of Graphic Design; Choosing the Right Type Style; Setting Type; Watching the Spacing; Margins; Mixing Type Styles; Using All-Cap Lines; Avoiding Awkward Arrangements; Spell Check; Dividing Headlines; Considering the Reading Distance.

**TİP 212 Typography III 4+2 7,0**

Typographic Resonance; Factors Affecting the Creation of Typographic Resonance; Creating Typographic Resonance With Typefaces; Typographic Resonance With Type Color,



Type size, Type weight and type style; Images of Typefaces; Creating Meaning by Association; Assigning a Meaning to a Word; Typographic Roles; Headlines, Subtitles, Picture captions, Text, Headings, Signature and other typographic roles.

**TİP 401 Advanced Typography I** 2+3 4,5

The Union of Type and Picture; The Interaction between Type and Picture; Using Type and Image together; Words within Images; Image as Letter, Letter as Image, Word as Image, Text Type as Image; Type as Environmental Image; Objective Type and Image; Letter Plus Image, Word plus image; Visual-Verbal Synergy; Typography Alone and Image Alone.

**TİP 402 Advanced Typography II** 2+3 4,5

Typeface Design; Anatomy of Type; Arm, Ascender, Descender, Spur, Bar, Serif, Bowl, Loop, Ear, Link, Stress, Stroke, Stem, Shoulder, Hairline, Terminal, Tail, Counter, Spine, Swash, Ligature, x-height, Baseline, Capline, Character, Font; Typeface styles and weight; Their Image and Use; Legibility; Using Fontographer.

**TİY 129 Drama** 2+1 3,0

Drama as a method of creativity: Techniques and Applications; Harmony and Confidence; Expressing Thoughts through Gestures; Improving Verbal and Nonverbal Communication; Improving Relations in Society; Group Works and Staging.

**TÜR 109 Writing and Speaking Skills for Architectural Drafting I** 3+0 2,0

Elementary Level: Controlled Writing About Architectural Drafting: Sentence writing, Cloze procedure, Writing about events; Composition Writing: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building About Architectural Drafting; Oral Communication Skills About Architectural Drafting; Listening Comprehension About Architectural Drafting; Idioms; Spoken Language About Architectural Drafting: Content, Structure, Syntax and Pragmatics.

**TÜR 110 Writing and Speaking Skills for Architectural Drafting II** 3+0 2,0

Intermediate Level: Controlled Writing About Architectural Drafting: Sentence writing, Cloze procedure, Writing about events; Composition Writing: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building About Architectural Drafting; Oral Communication Skills About Architectural Drafting; Listening Comprehension About Architectural Drafting; Idioms; Spoken Language About Architectural Drafting: Content, Structure, Syntax and Pragmatics.

**TÜR 111 Writing and Speaking Skills for Graphic Arts I** 3+0 2,0

Elementary Level: Controlled Writing About Graphic Arts: Sentence writing, Cloze procedure, Writing about events; Composition Writing: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building About Graphic Arts; Oral Communication Skills About Graphic Arts; Listening Comprehension About Graphic Arts; Idioms; Spoken Language About Graphic Arts: Content, Structure, Syntax and Pragmatics.

**TÜR 112 Writing and Speaking Skills for Graphic Arts II** 3+0 2,0

Intermediate Level: Controlled Writing About Graphic Arts: Sentence writing, Cloze procedure, Writing about events; Composition Writing: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building About Graphic Arts; Oral Communication Skills About Graphic Arts; Listening Comprehension About Graphic Arts; Idioms; Spoken Language About Graphic Arts: Content, Structure, Syntax and Pragmatics.

**TÜR 113 Writing and Speaking Skills for Ceramic Arts I** 3+0 2,0

Elementary Level: Controlled Writing About Ceramic Arts: Sentence writing, Cloze procedure, Writing about events; Composition Writing: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building About Ceramic Arts; Oral Communication Skills About Ceramic Arts; Listening Comprehension About Ceramic Arts; Idioms; Spoken Language About Ceramic Arts: Content, Structure, Syntax and Pragmatics.

**TÜR 114 Writing and Speaking Skills for Ceramic Arts II** 3+0 2,0

Intermediate Level: Controlled Writing About Ceramic Arts: Sentence writing, Cloze procedure, Writing about events; Composition Writing: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building About Ceramic Arts; Oral Communication Skills About Ceramic Arts; Listening Comprehension About Ceramic Arts; Idioms; Spoken Language About Ceramic Arts: Content, Structure, Syntax and Pragmatics.

**TÜR 115 Writing and Speaking Skills for Computer Operator Training I** 3+0 2,0

Elementary Level: Controlled Writing About Computer Operating: Sentence writing, Cloze procedure, Writing about events; Composition Writing: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building About

Computer Operating; Oral Communication Skills About Computer Operating; Listening Comprehension About Computer Operating; Idioms; Spoken Language About Computer Operating: Content, Structure, Syntax and Pragmatics.

**TÜR 116 Writing and Speaking Skills for Computer Operator Training II 3+0 2,0**

Intermediate Level: Controlled Writing About Computer Operating: Sentence writing, Cloze procedure, Writing about events; Composition Writing: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building About Computer Operating; Oral Communication Skills About Computer Operating; Listening Comprehension About Computer Operating; Idioms; Spoken Language About Computer Operating: Content, Structure, Syntax and Pragmatics.

**TÜR 155 Turkish Language I 2+0 2,0**

Language, Culture and Society; Language Reform; Turkish Language Association; Phonetics: Vowel Harmony, Assimilation, Sonority, Devoicing, Epenthesis; Types of Adjectives: Spelling Rules; Punctuation; Verbs: Active, Passive, Reciprocal, Reflexive, Causatives; Conjunctions; Gerunds and Participles.

**TÜR 156 Turkish Language II 2+0 2,0**

Substantive Verb: Negative and Interrogative Forms; Sentence: Constituents; Predicate: Position of Predicate in a Sentence; Types of Subjects; Types of Objects: Direct Object, Indirect Object; Adverbial Clauses; Sentence Types: Affirmative Sentences, Negative Sentences; Nominal and Verbal Predicates; Word Order Permutations: Canonical and Inverted Sentences; Simple, Compound and Complex Sentences.

**TÜR 157 Writing Skills I 1+2 2,0**

Written Text Types to the Hearing Impaired; Guided and Free Writing; Writing Composition: Creative Writing, Coherence and Cohesion; Assignments by Using Different References, Class Presentation.

**TÜR 158 Writing Skills II 1+2 2,0**

Written Text Types to the Hearing Impaired; Guided and Free Writing; Writing Composition: Creative Writing, Coherence and Cohesion; Assignments by Using Different References, Class Presentation.

**TÜR 159 Speaking Skills I 1+2 2,0**

Teaching Speaking to the Hearing Impaired; Oral Exercises; Acquiring Knowledge through Spoken Language; Sharing Knowledge; Oral Interaction; Listening Comprehension; Language of Speech: Content, Structure, Syntax and Pragmatics; Lexicon; Fluency and Intelligibility.

**TÜR 160 Speaking Skills II 1+2 2,0**

Teaching Speaking to the Hearing Impaired; Oral Exercises; Acquiring Knowledge through Spoken Language; Sharing Knowledge; Oral Interaction; Listening Comprehension; Language of Speech: Content, Structure, Syntax and Pragmatics; Lexicon; Fluency and Intelligibility.

**TÜR 193 Writing Skills I 1+2 3,0**

Types of Written Texts Needed by the Hearing Impaired for Social Communication; Guided Writing; Free Writing; Writing Composition: Creative Writing, Coherence and Cohesion; Project Assignments: Preparing Texts by Using Various References, Project development, Class presentations of projects; Assessment of presented assignments.

**TÜR 194 Writing Skills II 1+2 3,0**

Types of Written Texts Needed by the Hearing Impaired for Social Communication; Guided Writing; Free Writing; Writing Composition: Creative Writing, Coherence and Cohesion; Project Assignments: Preparing Texts by Using Various References, Project development, Class presentations of projects; Assessment of presented assignments.

**TÜR 195 Speaking Skills I 1+2 3,0**

Speaking Skills Needed by the Hearing Impaired for Social Communication; Oral Exercises; Acquiring Knowledge through Spoken Language; Sharing Knowledge; Oral Interaction: Listening Comprehension; Giving Directions; Receiving Directions; Spoken Narration: Content, Structure, Syntax and Pragmatics; Lexicon; Fluency and Intelligibility; Assessment: Self-assessment of speaking skills.

**TÜR 196 Speaking Skills II 1+2 3,0**

Speaking Skills Needed by the Hearing Impaired for Social Communication; Oral Exercises; Acquiring Knowledge through Spoken Language; Sharing Knowledge; Oral Interaction: Listening Comprehension; Giving Directions; Receiving Directions; Spoken Narration: Content, Structure, Syntax and Pragmatics; Lexicon; Fluency and Intelligibility; Assessment: Self-assessment of speaking skills.

**TÜR 217 Writing and Speaking Skills for Architectural Drafting III 3+0 2,0**

Advanced Level: Controlled Writing About Architectural Drafting: Sentence writing, Cloze procedure, Writing about events; Composition Writing: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building About Architectural Drafting; Oral Communication Skills About Architectural Drafting; Listening Comprehension About Architectural Drafting; Idioms; Spoken Language About Architectural Drafting: Content, Structure, Syntax and Pragmatics.

**TÜR 218 Writing and Speaking Skills for Architectural Drafting IV 3+0 2,0**

High Advanced Level: Controlled Writing About Architectural Drafting: Sentence writing, Cloze procedure, Writing about events; Composition Writing: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building About Architectural Drafting; Oral Communication Skills About Architectural Drafting; Listening Comprehension About Architectural Drafting; Idioms; Spoken Language About Architectural Drafting: Content, Structure, Syntax and Pragmatics.

**TÜR 223 Writing and Speaking Skills for Graphic Arts III 2+0 2,0**

Advanced Level: Controlled Writing About Graphic Arts: Sentence writing, Cloze procedure, Writing about events; Composition Writing: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building About Graphic Arts; Oral Communication Skills About Graphic Arts; Listening Comprehension About Graphic Arts; Idioms; Spoken Language About Graphic Arts: Content, Structure, Syntax and Pragmatics.

**TÜR 224 Writing and Speaking Skills for Graphic Arts IV 2+0 2,0**

High Advanced Level: Controlled Writing About Graphic Arts: Sentence writing, Cloze procedure, Writing about events; Composition Writing: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building About Graphic Arts; Oral Communication Skills About Graphic Arts; Listening Comprehension About Graphic Arts; Idioms; Spoken Language About Graphic Arts: Content, Structure, Syntax and Pragmatics.

**TÜR 225 Writing and Speaking Skills for Ceramic Arts III 3+0 2,0**

Advanced Level: Controlled Writing About Ceramic Arts: Sentence writing, Cloze procedure, Writing about events; Composition Writing: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building About Ceramic Arts; Oral Communication Skills About Ceramic Arts; Listening Comprehension About Ceramic Arts; Idioms; Spoken Language About Ceramic Arts: Content, Structure, Syntax and Pragmatics.

**TÜR 226 Writing and Speaking Skills for Ceramic Arts IV 3+0 2,0**

High Advanced Level: Controlled Writing About Ceramic Arts: Sentence writing, Cloze procedure, Writing about events; Composition Writing: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and

Cohesion; Text Types; Vocabulary Building About Ceramic Arts; Oral Communication Skills About Ceramic Arts; Listening Comprehension About Ceramic Arts; Idioms; Spoken Language About Ceramic Arts: Content, Structure, Syntax and Pragmatics.

**TÜR 227 Writing and Speaking Skills for Computer Operator Training III 3+0 2,0**

Advanced Level: Controlled Writing About Computer Operating: Sentence writing, Cloze procedure, Writing about events; Composition Writing: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building About Computer Operating; Oral Communication Skills About Computer Operating; Listening Comprehension About Computer Operating; Idioms; Spoken Language About Computer Operating: Content, Structure, Syntax and Pragmatics.

**TÜR 228 Writing and Speaking Skills for Computer Operator Training IV 3+0 2,0**

High Advanced Level: Controlled Writing About Computer Operating: Sentence writing, Cloze procedure, Writing about events; Composition Writing: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building About Computer Operating; Oral Communication Skills About Computer Operating; Listening Comprehension About Computer Operating; Idioms; Spoken Language About Computer Operating: Content, Structure, Syntax and Pragmatics.

**TÜR 315 Turkish Language Skills for Graphic Arts I 2+0 2,0**

Elementary Level: Controlled Writing with Different Types of Texts About Graphic Arts: Sentence writing, Cloze procedure, Writing about events; Composition Writing About Graphic Arts: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building with Different Types of Texts About Graphic Arts; Oral Communication Skills About Graphic Arts; Listening Comprehension About Graphic Arts; Idioms; Spoken Language About Graphic Arts: Content, Structure, Syntax and Pragmatics

**TÜR 316 Turkish Language Skills for Graphic Arts II 2+0 2,0**

Intermediate Level: Controlled Writing with Different Types of Texts About Graphic Arts: Sentence writing, Cloze procedure, Writing about events; Composition Writing About Graphic Arts: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building with Different Types of Texts About Graphic Arts; Oral Communication Skills About Graphic Arts; Listening Comprehension About

Graphic Arts; Idioms; Spoken Language About Graphic Arts: Content, Structure, Syntax and Pragmatics.

**TÜR 317 Turkish Language Skills for Ceramic Arts I 3+0 3,0**

Elementary Level: Controlled Writing with Different Types of Texts About Ceramic Arts: Sentence writing, Cloze procedure, Writing about events; Composition Writing About Ceramic Arts: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building with Different Types of Texts About Ceramic Arts; Oral Communication Skills About Ceramic Arts; Listening Comprehension About Ceramic Arts; Idioms; Spoken Language About Ceramic Arts: Content, Structure, Syntax and Pragmatics.

**TÜR 318 Turkish Language Skills for Ceramic Arts II 3+0 3,0**

Intermediate Level: Controlled Writing with Different Types of Texts About Ceramic Arts: Sentence writing, Cloze procedure, Writing about events; Composition Writing About Ceramic Arts: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building with Different Types of Texts About Ceramic Arts; Oral Communication Skills About Ceramic Arts; Listening Comprehension About Ceramic Arts; Idioms; Spoken Language About Ceramic Arts: Content, Structure, Syntax and Pragmatics.

**TÜR 417 Turkish Language Skills for Graphic Arts III 2+0 2,0**

Advanced Level: Controlled Writing with Different Types of Texts About Graphic Arts: Sentence writing, Cloze procedure, Writing about events; Composition Writing About Graphic Arts: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building with Different Types of Texts About Graphic Arts; Oral Communication Skills About Graphic Arts; Listening Comprehension About Graphic Arts; Idioms; Spoken Language About Graphic Arts: Content, Structure, Syntax and Pragmatics.

**TÜR 418 Turkish Language Skills for Graphic Arts IV 2+0 2,0**

High Advanced Level: Controlled Writing with Different Types of Texts About Graphic Arts: Sentence writing, Cloze procedure, Writing about events; Composition Writing About Graphic Arts: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building with Different Types of Texts About Graphic Arts; Oral Communication Skills About Graphic Arts; Listening Comprehension About Graphic Arts; Idioms; Spoken Language About Graphic Arts: Content, Structure, Syntax and Pragmatics.

**TÜR 419 Turkish Language Skills for Ceramic Arts III 3+0 3,0**

Advanced Level: Controlled Writing with Different Types of Texts About Ceramic Arts: Sentence writing, Cloze procedure, Writing about events; Composition Writing About Ceramic Arts: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building with Different Types of Texts About Ceramic Arts; Oral Communication Skills About Ceramic Arts; Listening Comprehension About Ceramic Arts; Idioms; Spoken Language About Ceramic Arts: Content, Structure, Syntax and Pragmatics.

**TÜR 420 Turkish Language Skills for Ceramic Arts IV 3+0 3,0**

High Advanced Level: Controlled Writing with Different Types of Text About Ceramic Arts: Sentence writing, Cloze procedure, Writing about events; Composition Writing About Ceramic Arts: Main idea, Point of view, Planning, Introduction, Development, Conclusion, Paragraph structure, Order of sentences; Coherence and Cohesion; Text Types; Vocabulary Building With Different Types of Text About Ceramic Arts; Oral Communication Skills About Ceramic Arts; Listening Comprehension About Ceramic Arts; Idioms; Spoken Language About Ceramic Arts: Content, Structure, Syntax and Pragmatics.