

Batman University
Department of Protection and Restoration of Cultural Properties
Education-Training, Practice and Problems

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A. Establishment and Purpose of the Department

Although there are many departments providing education in bachelor's degree and associate's degree in the universities which are abroad, an associate's degree (2 years) education has been provided in our country on the field of the protection and restoration of cultural properties for a long time. Post graduate architectural restoration programs opened in the restoration departments of some faculties of architecture could not completely fill in the gap in this field.

The need for a restorer has been encountered in the interventions made on existing cultural properties during the archeological excavations carried out in Hasankeyf on behalf of Batman University. By taking into account the fact that this need is not only encountered in Hasankeyf but also it is the problem encountered all over Turkey, it is planned to establish the Department of Protection and Restoration of the Cultural Properties within the structure of the Faculty of Science and Literature and an application was made to the Higher Education Council (YÖK) in 2009. The department was established in the same year and the students were accepted.

Our department is the second University subsequent to İstanbul University providing four years bachelor's degree education on this field; and our department is the first department of Turkey programmed oriented to the protection and restoration of both movable and immovable cultural properties

Department of Protection and Restoration of Cultural Properties as a new unit of Batman University established in 2007 aims at;

- Protecting the cultural properties of the Anatolia
- Appropriating them to itself and to the humanity; protecting and promoting the cultural properties
- Producing scientific research and application projects on these fields by benefiting from the modern science and technology,
- Performing protection and restoration activities convenient to today's needs and conditions of the country,
- **Training personnel** who will make Turkey have a say in the international platform.

B. Structural Characteristic of the Department

The establishment of our department and its curriculum was prepared by being inspired by the Universities having available associate's degree and bachelor's degree program. In order to make the students of our department be qualified professionally, our existing opportunities and the difficulties to be encountered were taken into consideration. At first, the courses and the contents of the courses were determined and then it was envisaged for curriculum to be based on theoretical knowledge at the rate of 40 % and on the practice at the rate of 60 %. The importance is given to the theoretical courses for the first two years and then to the applied courses for the last two years. The idea for the students to get basic theoretical knowledge at first and to develop their manual skills, material and equipment usage skills, their project and idea generation potentials regarding their professions over time forms the basis of our instructional plan.

C. Curriculums and their Contents

It is considered for the courses in the first two years to provide students with information about the basic concepts such as "Cultural Property, Cultural Heritage, Protection and Restoration, Documentation, Recording, Reporting, Project Designing" and about the modern principles, current and common methods related to their professions. Besides, it is thought it would provide support to the education of the students to make them recognize the cultural properties on which they would work by receiving basic information on the fields of the archeology, arts and architecture history. In order to make students learn the documentation methods which have a significant place during all stages of the studies regarding the cultural properties, applied courses such as both the technical drawing oriented to the hand drawing and computer oriented to the computer aided drawing are included in the curriculum for the first two years.

It is considered appropriate for the students to specialize in one field by taking into consideration that the students could not master the protection and restoration specialization having a very wide range of study field ranging from the inorganic pieces such as ceramic, stone, metal, glass to the organic pieces such as wooden, bone, paper and textile; from all types of metal findings such as coins, pots and pans to the architectural works.

The distinction of "movable" and "immovable" cultural properties which forms the first step of the branching out in our department begins in the fifth term. Courses on the matters of ceramic, metal, stone, mosaic, mural painting, handwritten work, organic piece, wooden and textile are provided on the field of Movable Cultural Properties. And due diligence on site, documentation of the current state, intervention method needed to be applied according to the type of the material and decomposition are explained, and current application types are examined on the field of immovable cultural properties.

It is envisaged for the courses to be "elective" at the rate of 25 % within the framework of the Bologna process. In this context, 8 credit/ hour courses are recommended from the courses within the curriculum of the department; 22 credit/ hour courses are recommended from the courses out of the curriculum of the department. The reason for directing the students to the elective courses which are out of the curriculum of the department is to make them get different information from different disciplines according to their field of interests and to make them broaden their horizons. While students who choose the field of movable or immovable cultural properties are compulsorily taking the courses on their own department, they could take elective courses from the courses in another department, if they require (Table 1; graphic 1- 2).

D. Instructor and Student Profile of the Department

Apart from the low number of academicians qualified on the matter of protection and restoration in our Country, it is difficult to find qualified instructors due to the fact that the University is in Batman. Currently 1 Restorer, 4 Arts History Teachers, 1 Archaeologist, 1 Restorer Architect and 1 Geophysicist – Archeometrician teacher give lessons in this department. There are totally 12 instructors available in this department. However the number of permanent specialist instructors is not enough for our department providing education for three years. In order to train the students better, some of the instructors come from other universities especially from İTÜ and give lessons to the students.

Another important factor affecting the quality of the education in our department is the student potential. The students were accepted by additional placement in 2009; there was no preference throughout the country for a department who was not well – known in 2010; students from the region who received lower points were accepted to the university. Due to the fact that the quota determined for the department was 46 + 46 by being increased by Higher Education Council in 2010, it reached to the levels that would push the opportunities in our department providing practice – based education. In spite of this, students were accepted by being subjected to the “Special Ability Test” for the 2011 – 2012 academic year and the quota was decreased to 25 + 25. From now on the students who are choosing the department have a preliminary knowledge about the department and have enough level of manual skill and thinking capacity. Therefore their interests on the department and their success at the courses are higher than the interests and successes of the students accepted before them. 85 % of the current students in the department comes from Batman and near – by cities.

E. Laboratory, Library and Equipment Utilization of the Department

There is a protection and restoration laboratory having 40 students capacity available in our department. Applied courses are performed on the small works in this laboratory (Picture 1). Since we will move to the new campus field next year, other laboratories will be established there. Most of the applications on the matter of Movable and Immovable Cultural Properties are performed on the cultural properties on the excavation field and in the Excavation House laboratories. Furthermore, the applied courses are also performed on the works which are being restored in Diyarbakır (Picture 2 – 4).

There are enough number of books and books in enough capacity from which the instructors and students of our department could sufficiently benefit in the Central Library of our University. Besides, all types of chemical, optical and digital materials which could be used in the laboratory and on the land are purchased and they are brought into a usable state. Like all units of the University, our Department has “smart classes and boards” having ability to provide remote education. It is possible to perform knowledge share or common course and a remote – sensing course by reaching to the other universities and libraries (Picture 5).

5 students were sent to the *Universita Degli Studi Foggia, Facolta di Lettere e Filosofia, Storia-Lettere e Beni Culturali* department in the 2011 – 2012 academic year within the scope of Erasmus Project oriented to the improvement of the student in our Department. Two of them were sent in the Fall Term; and three of them were sent in the spring term. Besides, many tour and research programs were organized to the regions inland where cultural properties are observed intensively especially in near – by cities (Picture 6). In addition to this, students are directed to take part in the studies on the cultural properties that are being restored as an observer or actively during the summer holidays. This student exchange aims at expanding the students’ vision by its project and events.

F. Some prominent headings about the Cultural Properties Protection and Restoration Departments

Thanks to the studies and documentations carried out in the architectural restoration departments of especially the Faculty of Architecture and Two Years Vocational Schools on the matter of the documentation, protection and restoration of the immovable cultural properties, it has changed for better day by day to find resources in various libraries of our country and in electronic media. However when it is predicated on the cultural properties, the difficulty of finding resource appears due to the fact that the studies on the matter of the documentation and publication of the small objects such as ceramic, metal, glass, wooden are limited and in postgraduate thesis form. It is especially needed on this matter to increase the publications in which the practices which are made on the restoration and conservation of the small works are explained.

Graduate students could work as a specialist in all types of intervention works to be performed on the immovable cultural properties and in the protection and restoration of the movable and immovable cultural properties that are under the ownership of the museums, public and private foundations. When the dimension of the cultural heritage in Turkey is taken into consideration, a wide range of job opportunities is in question. However since it is thought that the intervention to be made on the cultural properties must be on the attention level that must be paid on the patient, it becomes appear that the students of the department must be good specialists. Therefore the education – training program, instructors, course equipments and laboratories and practice fields must be available in adequate level.

It would be more beneficial for Higher Education Council to give up from “accepting redundant students” policy and to train students in a number that would not push the education opportunities and quality of the opened department and programs, and to make special ability test compulsory for these departments. It should not be ignored that it would be beneficial for the new universities which require to open this department to take steps by considering the instructors, fields of application and physical infrastructure equipment; for the Universities opening the Department of the Protection and Restoration of the Cultural Properties to behave more carefully on the matter of student acceptance and quotas and not to be in a hurry.

On the other hand, it is necessary to employ the instructors (research assistant, academician and specialist) to provide education in this department not only according to their ALES points but also according to the result of a test that would measure their knowledge and skills on the matters of protection and restoration. It makes it impossible to provide this education with the instructors who have no skill and experience on the matter of the protection and restoration of cultural properties despite their high diploma grade or ALES point.

G. Conclusion

Department of the Protection and Restoration of Cultural Properties that is opened in a newly established University to provide education in a field, the value of which is being newly realized in Turkey could not reach to the required level in terms of academic staff. Since most of the students accepted to the department in the first years required to have a bachelor's degree by not having a protection skill and conscious, the success rate regarding the matter was lower in the first years. But making students perform special ability test as of 2011 – 2012 academic year provide a hope as a significant improvement towards the future.

It is inevitable to have well – trained instructor problem and similar problems in the departments which are opened or that will be opened on this matter in most of the universities. It is needed in Turkey to come up with a solution

promptly on the matter of the restoration specialty in Turkey, the lack of which is felt; therefore to increase the number of postgraduate programs in the equipped universities and to insist on this matter seriously and not to open new departments in the Universities whose infrastructure is not adequate.

Despite all shortcomings and problems, we believe that Protection and Restoration Department of Batman University would have an equipment and performance to train personnel who would have a protection conscious and knowledge and who is skillful in the near future. Our available personnel has lasted their studies by showing necessary care and self – devotion for that purpose.

COURSES – CREDITS

1 st CLASS 1 ST SEMESTER					
Course Name	T	U	K	AKTS	Content of the Course
Anatolian Civilizations	2	0	2	2	Civilizations appeared in Anatolia from the Neolithic Period to these days will be explained in a chronological order. First part will consist of the period between the Neolithic Period and 2 thousand.
Christian Art	2	0	2	2	It is attempted to explain thoroughly the Byzantine Art including a very important period in terms of Anatolian History.
Technical Drawing 1	1	2	2	3	As a basic education, it will be attempted to make students perceive the objects correctly and to make them gain knowledge and skill to draw pattern with a free – hand in the documentation applications in the studies to be performed.
Arch. – Art. Terminology 1	2	0	2	2	Definition of the archeology and art history, its appearance as a science, its methods, its relations with other disciplines, professional terminology of the archeology and art history and its place and importance in today's social life will be examined.
Movable Cultural Properties 1	2	0	2	3	Production stages of movable cultural properties such as ceramic, glass, metal etc. and their types will be explained in chronological order beginning from the Late Neolithic Age (7 Thousand BC) to the end of 2 Thousand.
Protection and Restoration Theories 1	2	0	2	2	Methods used in the protection and restoration field and the ethics on this matter will be examined and discussed.

1 st CLASS 2 nd SEMESTER					
Course Name	T	U	K	AKTS	Content of the Course
Anatolian Civilizations II	2	0	2	2	Civilizations appeared in Anatolia from the Neolithic Period to these days will be explained in a chronological order. First part will consist of the period beginning from the end of the 2 Thousand to the end of the Roman Empire Period.
Medieval Islam Art	2	0	2	2	The Islam art developed in the Central Asia geography with the Middle East and Karakhanids since Umayyad Period and in the Anatolia with Seljukian and the Ottoman Empire, and basic architectural monuments of this art such as mosque, madrasah, workhouse, public house, bath house, public fountain etc., its ipologic development and characteristics will be explained and it will be provided to examine the formed urban texture and infrastructures.
Technical Drawing II	1	2	2	3	The drawing techniques such as the plan,, relievo and resuscitation of the objects and of textures used in the documenting and documentation studies which form an important stage of the protection – restoration studies will be taught.
Arch. – Art. Terminology II	2	0	2	2	Classical Age Archeology and art history literature, introduction and usage of the old resources and new internet – enabled resources, ways and methods of reaching and benefiting from them, introduction of the important resources and libraries in our country will be explained.
Movable Cultural Properties II	2	0	2	3	Production stages of movable cultural properties such as ceramic, glass, metal etc. and their types will be explained in chronological order beginning from the Late Neolithic Age (7 Thousand BC) to the end of 2 Thousand.
Protection and Restoration Theories II	2	0	2	2	Theories put forward until today on the matter of the protection and restoration will be explained and new theories that would be put forward in the future will be discussed.

2 ND CLASS 3 RD SEMESTER					
Course Name	T	U	K	AKTS	Content of the Course
Computer I	2	2	3	3	Computer usage will be taught, examples will be indicated on how to use computer technology on the field of protection and restoration by providing information on this matter, and performed applications will be shown.
Chemistry of Protection and Restoration I	2	0	2	2	Chemicals used in the protection and restoration will be introduced and taught.
Protection and Restoration Techniques	2	0	2	2	Different protection and restoration techniques that may be used on the objects made up from different materials will be explained.
Ottoman Art	2	0	2	2	Qualities and quantities of the cultural properties formed by the Ottoman Empire which ruled over three continents, their architectural designs, technical and structural material of them will be examined and the states of the structures extant to our era will be determined.
Photography	2	0	2	3	Basic photography training in the level that would enable students to take photos necessary in the documentation of the protection and restoration studies.
Architectural Protection and Restoration Principles I	2	0	2	2	Theoretical and applied studies will be performed within the framework of the project prepared in line with the principles and decrees oriented to the protection and restoration of the historical artifacts described as Immovable Cultural Properties.
Students receive 6 credits free elective course out of the department's curriculum in the 3 rd semester.					

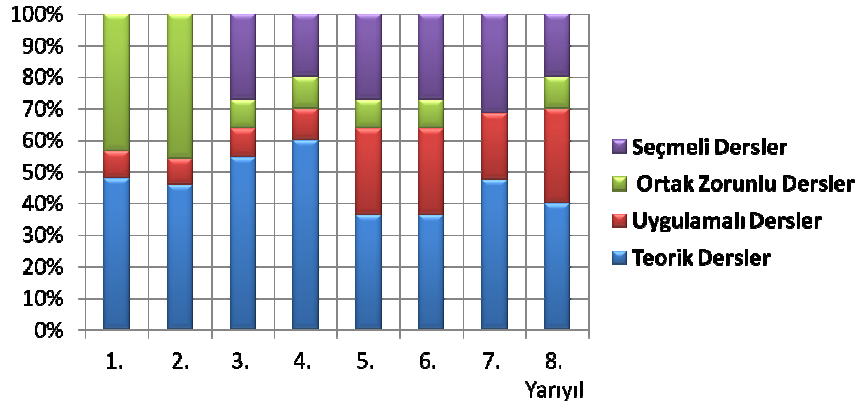
2 ND CLASS 4 TH SEMESTER					
Course Name	T	U	K	AKTS	Content of the Course
Computer II	2	2	3	3	Photoshop and AutoCAD programs will be taught and it is taught to the student to prepare documentation by means of the computer.
Chemistry of Protection and Restoration II	2	0	2	2	Preparation of the chemical formulas used in this field will be taught and, the preparation of different chemicals and mixtures that would be used against the different problems will be taught.
Protection and Restoration Techniques II	2	0	2	2	Search of the new techniques proper to the structure and characteristics of the historical and cultural artifacts in this region, and application of the developed methods will be explained.
Archeological Excavation and Its Techniques	2	0	2	2	Performing in – site protection and restoration works of the archeological excavation areas, and making a physical and chemical study of the objects found on this areas, and the first interventions to be made on them will be explained.
Digital Documenting	2	0	2	3	As a requirement of our era, all documentation works belonging to the cultural heritage are performed by using computers and digital cameras in the protection and restoration works like in many fields; and they are recorded in digital environments. Therefore, the usage of digital cameras, documenting and presenting the artifacts by programs such as AutoCAD and Microsoft Power Point, and keeping them in digital environment will be taught.
Architectural Protection and Restoration Principles II	2	0	2	2	Theoretical and applied studies will be performed within the framework of the project prepared in line with the principles and decrees oriented to the protection and restoration of the historical artifacts described as Immovable Cultural Properties.
Students receive 4 credits free elective course out of the department's curriculum in the 4 th semester.					

3 rd CLASS 5 TH SEMESTER					
Course Name	T	U	K	AKTS	Content of the Course
MOVABLE CULTURAL PROPERTIES					
Protection and Restoration of Ceramic Artifact I	2	2	3	4	Practices will be performed by means of laboratory by explaining the decomposition types seen on the ceramic artifacts and the intervention methods theoretically.
Protecting the Metal and Glass Artifacts I	2	2	3	4	Reasons of decomposition for the glass and metal artifacts, precautions to be taken, protection and restoration methods will be explained.
Protection and Restoration of Stone Artifacts I	2	2	3	4	Reasons of decomposition for the stone artifacts, precautions to be taken, protection and restoration methods will be explained.
IMMOVABLE CULTURAL PROPERTIES					
Structure Types and Elements I	2	2	3	4	Examining and explaining the architectural works appeared by the human settlements and civilization within the historical perspective since the prehistory to the Roman Architecture; and examining their criteria by planning and design approaches on the structure types.
Historical Structure Analysis I	2	2	3	4	Information about making out plan, cross – section and views of the alone and mass structure relievo by architectural relievo methods, introducing optical and electronic relievo tools by instrumental relievo methods, how to prepare the restoration report of a structure having historical document qualification and project reading will be explained.
Material Problems in Architecture I	2	2	3	4	Materials used in the historical structures and methods used in the determination and documentation of the problems according to the types of these materials and their position in the structure, and problems encountered frequently in the structural system and documentation of these problems will be explained.
COMMON COMPULSORY COURSES					
Seminar I	2	0	2	3	Explaining the practices performed and projects prepared during the semester and interpreting them by discussing.
FREE ELECTIVE COURSES WITHIN THE DEPARTMENT					
Painting Art	2	0	2	2	World painting art including the interactions between the countries and transnational during the period developed beginning from the wall paintings in the caves to the prehistoric Anatolian civilizations, from Egypt to the Greece and Romans, from the medieval era in Europe to the roman, gothic, Renaissance and then modern world (21st century) will be examined.
Numismatics	2	0	2	2	Reading and dating the coins belonging to the Ancient Period and Medieval Era will be explained.
Students receive 6 credits free elective course within or out of the department's curriculum in the 5 th semester.					

3 rd CLASS 6 TH SEMESTER					
Course Name	T	U	K	AKTS	Content of the Course
MOVABLE CULTURAL PROPERTIES					
Protection and Restoration of Ceramic Artifact II	2	2	3	4	Practices will be performed as well as the theoretical courses oriented to the restoration and conservation of the artifacts made up from materials such as ceramic, tile.
Protecting the Metal and Glass Artifacts II	2	2	3	4	Reasons of decomposition for the glass and metal artifacts, precautions to be taken, protection and restoration methods will be explained.
Protection and Restoration of Stone Artifacts II	2	2	3	4	Reasons of decomposition for the stone artifacts, precautions to be taken, protection and restoration methods will be explained.
IMMOVABLE CULTURAL PROPERTIES					
Structure Types and Elements II	2	2	3	4	Byzantine beginning towards the end of the Roman Architecture Period and other Medieval Architecture developed afterwards, Roman, Gothic, Renaissance, Baroque, Rococo and similar architectural periods will be introduced generally. Medieval Turkish Architecture and Ottoman Empire Architecture will be touched upon. Movements lasted with the 1st and 2nd National Architectural Periods will be finalized by the Modern Architecture approach of the XX. Century.
Historical Structure Analysis II	2	2	3	4	Information about making out plan, cross – section and views of the alone and mass structure relieve by architectural relieve methods, introducing optical and electronic relieve tools by instrumental relieve methods, how to prepare the restoration report of a structure having historical document qualification and project reading will be explained.
Material Problems in Architecture II	2	2	3	4	Materials used in the historical structures and methods used in the determination and documentation of the problems according to the types of these materials and their position in the structure, and problems encountered frequently in the structural system and documentation of these problems will be explained.
COMMON COMPULSORY COURSES					
Seminar II	2	0	2	3	Explaining the practices performed and projects prepared during the semester and interpreting them by discussing.
FREE ELECTIVE COURSES WITHIN THE DEPARTMENT					
Sculpture Art	2	0	2	2	What is sculpture, descriptive courses including the materials and techniques forming the sculpture, the place and importance of the sculpture in the history of the world will be examined. In this context, the sculpture history from the ancients and to the modern world (20th and 21st centuries) will form the content of the courses.
Epigraph	2	0	2	2	Calligraphy and the art of Calligraphy will be taught as well as the epigraphs of the extinct cities; Information will be provided about the writing techniques.
Students receive 6 credits free elective course within or out of the department's curriculum in the 6 th semester.					

4 th CLASS 7 TH SEMESTER					
Course Name	T	U	K	AKTS	Content of the Course
MOVABLE CULTURAL PROPERTIES					
Protection and Restoration of Mosaic	2	2	3	4	Protection and restoration projects which have been performed on mosaics until today will be explained by examples; Projects will be discussed and positive and negative results received from the performed practices will be evaluated and they will be explained practically.
Protection of Inscription Artifact	1	2	2	3	Reasons of decomposition for inscription works, precautions to be taken, protection and restoration methods will be explained; and the practice will be performed.
Protection and Restoration of Organic Pieces	2	0	2	3	Protection and restoration methods of organic pieces such as bone, ivory, leather and sheet will be explained.
IMMOVABLE CULTURAL PROPERTIES					
Architectural Protection and Restoration Techniques I	2	0	2	3	Materials encountered in the historical structures and materials and techniques oriented to their structural system problems will be explained.
In – site protection	2	2	3	4	Explaining first intervention methods to the architectural ruins found by the architectural excavations and the protection techniques oriented to the pieces; and studies oriented to the application of these techniques will be carried out.
Historical Environment Protection and Design Problems I	2	0	2	3	Studies will continue on the matters of the concept of protection, development of the protection understanding, protection on area scale, historical environment protection concept, planning of the areas to be protected and planning process, classification of the values to be protected, practice on the protection planning, legal framework.
COMMON COMPULSORY COURSES					
Seminar III	2	0	2	3	Students will work on a certain subject; they will make oral presentation about the practices that they carried out on the matter and about the prepared projects.
Museum Studies, Exhibition,, Storage I	2	0	2	2	Meaning of museum studies, its reason of foundation and its activities will be explained; museums will be explained by examples. Exhibition and storage conditions, methods and techniques of the artifacts in the museums will be explained by examples. Besides, Information will be provided about the museums that are newly established and having different purposes by examples.
FREE ELECTIVE COURSES WITHIN THE DEPARTMENT					
Climatology and Its Practice	2	0	2	2	Changes observed in the climate conditions and the effects of these changed on the cultural properties and the importance and systems of the humidity and temperature balance during the exhibition stage will be explained.
Students receive 6 credits free elective course out of the department's curriculum in the 7 th semester.					

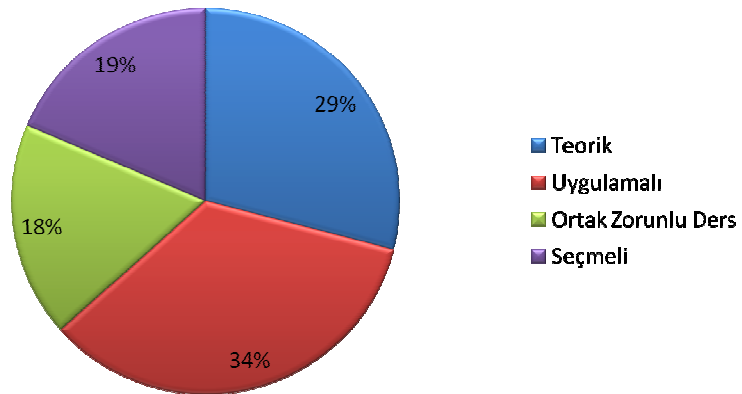
4 th CLASS 8 TH SEMESTER					
Course Name	T	U	K	AKTS	Content of the Course
MOVABLE CULTURAL PROPERTIES					
Protection and Restoration of Mural Painting	2	2	3	4	Protection and restoration projects which have been performed on mosaics until today will be explained by examples; Projects will be discussed and positive and negative results received from the performed practices will be evaluated and they will be explained practically.
Protection and Restoration of Wooden	1	2	2	3	Reasons of decomposition for inscription works, precautions to be taken, protection and restoration methods will be explained; and the practice will be performed.
Textile Knowledge and Restoration	1	2	2	3	Protection and restoration methods of organic pieces such as bone, ivory, leather and sheet will be explained.
IMMOVABLE CULTURAL PROPERTIES					
Architectural Protection and Restoration Techniques II	2	0	2	3	Materials encountered in the historical structures and materials and techniques oriented to their structural system problems will be explained.
In – site protection II	2	2	3	4	Explaining first intervention methods to the architectural ruins found by the architectural excavations and the protection techniques oriented to the pieces; and studies oriented to the application of these techniques will be carried out.
Historical Environment Protection and Design Problems II	2	0	2	3	Studies will be continued on the matters of the concept of protection, development of the protection understanding, protection on area scale, historical environment protection concept, planning of the areas to be protected and planning process, classification of the values to be protected, practice on the protection planning, legal framework.
COMMON COMPULSORY COURSES					
Seminar IV	2	0	2	3	Students will work on a certain subject; they will make oral presentation about the practices that they carried out on the matter and about the prepared projects.
Museum Studies, Exhibition,, Storage II	2	0	2	2	Meaning of museum studies, its reason of foundation and its activities will be explained; museums will be explained by examples. Exhibition and storage conditions, methods and techniques of the artifacts in the museums will be explained by examples. Besides, Information will be provided about the museums that are newly established and having different purposes by examples.
Students receive 4 credits free elective course out of the department's curriculum in the 8 th semester.					



**1. Batman Üniversitesi Kültür Varlıklarını Koruma ve Onarım Bölümü
Dönemlik Ders Dağılım Grafiği**

Elective Courses
Common Compulsory Courses
Applied Courses
Theoretical Courses

1. Course Distribution Graphic per Semester of the Protection and Restoration of the Cultural Properties Department of Batman University



2. Bölümde okutulan derslerin nesnel dağılımı

(2.Objective distribution of the courses provided in the Department.)



Picture 1: Performance of applied course in the laboratory of the Department.



Picture 2: Performance of applied course in the Hasankeyf Excavation House laboratory.



Picture 3: Restoration of Diyarbakır Ulu Mosque, performance of applied course.



Picture 4: Restoration of Hasankeyf Büyük Saray (the Great Palace), performance of applied course.



Picture 5: Performance of computer aided course.



Picture 6: Course of introduction to the Immovable Cultural Properties