

**REPUCLIC OF TURKEY**

**YILDIZ TECHNICAL UNIVERSITY**

**FACULTY OF ELECTRICAL-ELECTRONICS ENGINEERING**

**DEPARTMENT OF CONTROL AND AUTOMATION ENGINEERING**

**GRADUATION PROJECT**

**TITLE OF GRADUATION PROJECT**

Advisor: Prof. Dr. Name SURNAME

Student number - Name SURNAME

Student number - Name SURNAME

Student number - Name SURNAME

Istanbul, 2021

**T.C.**

YILDIZ TECHNICAL UNIVERSITY

**DEPARTMENT OF CONTROL AND AUTOMATION ENGINEERING**

DESIGN OF CONTROLLER (Title of the project)

A graduation project submitted by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (student names) in partial fulfillment of the requirements for the degree of bachelor is approved by the committee on 06.06.2021 in Department of Control and Automation Engineering, Faculty of Electrical and Electronics Engineering.

**Examining Committee**

Prof. Dr. Şeref Naci ENGİN (advisor name)

Yıldız Technical University \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Prof. Dr. Şeref Naci ENGİN (examining committee member1)

Yıldız Technical University \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Prof. Dr. Şeref Naci ENGİN (examining committee member2)

Yıldız Technical University \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

This project is supported by TÜBİTAK BİDEB [ ] 2209A / [ ] 2209B. (This part will be filled only for projects that have received support from TUBITAK.)

I hereby declare that I have obtained the required legal permissions during data collection and exploitation procedures, that I have made the in-text citations and cited the references properly, that I haven’t falsified and/or fabricated research data and results of the study and that I have abided by the principles of the scientific research and ethics during my graduation project under the title of Design of Controller(title of graduation project) supervised by my advisor, Prof. Dr. Şeref Naci ENGİN (advisor name). In the case of a discovery of false statement, I am to acknowledge any legal consequence.

Kurt MAXWELL (Student 1)

İmza

Kurt MAXWELL (Student 2)

İmza

Kurt MAXWELL (Student 3)

İmza

ABSTRACT

June, 2021

Name SURNAME, Name SURNAME and Name SURNAME

ÖNSÖZ

Bitirme çalışmanızın önsözünü Türkçe yazınız. TÜBİTAK veya farklı kurumlardan proje desteği alan öğrenciler bu kısım içerisinde kuruma teşekkür ediniz.

Haziran, 2021

İsim SOYİSİM, İsim SOYİSİM ve İsim SOYİSİM

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LIST OF SYMBOLS

Ai Activities of Daily Life

C Alternate Step Test

C Body Mass Index

Select Lists Style from the style tab for icons. While preparing the Symbol List, put blanks after the symbol by pressing the TAB key as stated above and write the description after this space.

LIST OF ABBREVIATIONS

ADL Activities of Daily Life

AST Step Test

BMI Body Mass Index

CSFT Cross Step moving on Four Stops

DBN Dynamic Bayesian Networks

DFRAC Demura’s Fall Risk Assessment Chart

EMG Electromyography

FEUP Faculdade de Engenharia da Universidade do Porto

FPRI Fall Prediction and Risk Index

For abbreviations, select Lists Style from the style tab. While preparing the abbreviation list, press the TAB key after the abbreviation name as stated above, and leave a space and write the explanation after this space.

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In order to add text to the bottom of the figures, right click on the figure. From the options opened with a right click, the option "Add caption" is selected. By selecting "Label: Figure" in the menu that opens, the necessary explanation for the figure is written and added. Make sure that the figure numbers are in the form of Figure Chapter Number.Subtitle Number. After adding all the figures or updating the figure texts in the content, right-click on the Figure List table and select "Update Field" and "Update entire table" to refresh the table.

LIST OF TABLES

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In order to add text to the top of the charts, right click on the shape. Select "Add Caption" from the options opened with a right click. By choosing “Label: Chart” in the menu that opens, the necessary explanation for the table is written and added. Make sure that the table numbers are in the form of Table ChapterNumber.SubtitleNumber (If the Table label does not exist, a new label is added, in the Format tab, the ordering is adjusted according to the chapter number). After adding all tables or updating the table texts in the content, right-click on the Table List table and select “Update Field” and “Update entire table” to refresh the table.

ABSTRACT

TITLE OF GRADUATION PROJECT

Name SURNAME, Name SURNAME and Name SURNAME

Department of Control and Automation Engineering

 Graduation Project

Advisor: Prof. Dr. Xaaa XXXX

The word “smart” has been exercised in various fields. And it is widely accepted to mean intelligence. Smart home service, one of the typical emerging technologies in the IoT era. It has changed house equipment into being more intelligent, remote controllable, and interconnected. However, smart homes are still considered as a concepts in certain aspects. In addition, controllability of a smart home may differ according to users need. As number of smart home users are increasing in recent years and purposed solutions are diversifying, providing safe, useful solutions are getting more critical. In this project we are purposing a user friendly smart environment monitoring solution. This automation system can be designed by low power using components such as ESP32. This module has advantage for infused Wifi and bluetooth modules which lowers the connection costs by elimination of using external Wifi or bluetooth module. We will consider to use Wifi module more due to higher data transfer rate than bluetooth. In this project, we are proposing a dynamic system to control and monitor electronic sensors using a real time monitor and control platform, ubidots, which can be adapted easily home environment. This system can effectively reduce energy waste, increase habitant comfort and create more useful areas for peope who needs special care. By using ESP32 in this project, we can monitor the light, sound, temprature, humity, some toxic gas amount such as methane and carbon monoxide. This values can be viewed through mobile devices as well as web based cloud solution. The system is relatively inexpensive, easy to use and versatile for different environment. If the environment requires new measurements and actions, users can easily create basic events without programming knowledge.

Keywords: IOT, sensors, wireless communication, smart environment, smart design

Do not forget to put blanks after the comma between the keywords.

YILDIZ TECHNICAL UNIVERSITY

DEPARTMENT OF CONTROL AND AUTOMATION ENGINEERING

ÖZET

BİTİRME PROJESİ BAŞLIĞI

İsim SOYİSİM, İsim SOYİSİM, İsim SOYİSİM

Kontrol ve Otomasyon Mühendisliği Bölümü

 Bitirme Çalışması

Danışman: Prof. Dr. Xaaa XXXX

"Akıllı" kelimesi çeşitli alanlarda kullanılmıştır. Ve zeka anlamına geldiği yaygın olarak kabul edilmektedir. IoT çağında ortaya çıkan tipik teknolojilerden biri olan akıllı ev hizmetidir. Ev ekipmanını daha akıllı, uzaktan kontrol edilebilir ve birbirine bağlı hale getirilmiştir. Ancak akıllı evler hala konsept bir kavram olarak değerlendirilmektedir. Ayrıca akıllı bir evin kontrol edilebilirliği kullanıcının ihtiyacına göre farklılık gösterebilir. Son yıllarda akıllı ev kullanıcılarının sayısı artarken ve amaca yönelik çözümler çeşitlenirken, güvenli, kullanışlı çözümler sunmak daha da kritik hale gelmektedir. Bu projede, kullanıcı dostu bir akıllı ortam izleme çözümü hedefliyoruz. Bu otomasyon sistemi, ESP32 gibi bileşenler kullanılarak düşük güçle tasarlanabilir. Bu modül, harici Wifi veya bluetooth modülünün kullanılmasını ortadan kaldırarak bağlantı maliyetlerini düşüren sistemde hali hazırda bulunan Wifi ve bluetooth modüllerini içerir. Bluetooth'tan daha yüksek veri aktarım hızı nedeniyle Wifi modülü kullanılacaktır. Bu projede, ev ortamına kolayca adapte edilebilen gerçek zamanlı bir izleme ve kontrol platformu olan Ubidots kullanarak elektronik sensörleri kontrol etmek ve izlemek için dinamik bir sistem öneriyoruz. Bu sistem, enerji israfını etkili bir şekilde azaltabilir, insan konforunu artırabilir ve özel bakıma ihtiyacı olan insanlar için daha kullanışlı alanlar yaratabilir. Bu projede ESP32 kullanarak ışığı, sesi, sıcaklığı, nemi, metan ve karbon monoksit gibi bazı toksik gaz miktarları takip edebilir. Bu değerler, mobil cihazların yanı sıra web tabanlı bulut çözümü üzerinden de görüntülenebilir. Sistem nispeten ucuz, kullanımı kolay ve farklı ortamlar için çok yönlüdür. Ortam yeni ölçümler ve eylemler gerektiriyorsa, kullanıcılar programlama bilgisi olmadan kolayca temel olaylar oluşturabilir.

**Anahtar Kelimeler:** IOT, sensörler, kablosuz iletişim, akıllı çevre, akıllı ortam tasarımı

YILDIZ TEKNİK ÜNİVERSİTESİ

KONTROL VE OTOMASYON MÜHENDİSLİĞİ BÖLÜMÜ

SECTION 1

# INTRODUCTION

## Literature Survey

A detailed literature survey will be explained in this section. The literature should be well studied and previous studies should be handled carefully. You should include references and citations from similar works in your graduation project.

## Objective of Study

The objective of the graduation study will be briefly explained.

* Total length of Section 1 will not exceed 20 pages.
* The explanations below are valid for all sections.
* The title of section (SECTION 1) style should be selected as section\_principal. Numbers should not be written in front of this heading in the table of contents and at the beginning of the section.
* Heading (INTRODUCTION) style Heading 1 style should be selected. Numbers should not be written in front of this heading in the table of contents and at the beginning of the section.
* Sub-section (1.1 Literature Survey) style Heading 2 style should be selected.
* If there is a need for numbers in the titles, do not forget to correct the numbers and the title text as “Bold”. Put blank before headings.

SECTION 2

# YILDIZ TECHNICAL UNIVERSITY

The second part is given to you as an example for spelling rules. In this section, the methods you used in your study will be explained clearly. The software codes you use and all kinds of microprocessors, sensors, cards, development platforms, etc. The catalog information about the subject will not be included in the graduation project, but will be included in the appendices. The number of sections can be increased according to the content of the graduation project. In order to show the number of pages too much, no more space will be left than necessary, accordingly, the relevant figures will be added to the following page if necessary.

By selecting all content texts, line spacing options should be made Before: 6nk After: 6nk and Line Spacing: 1.5 lines. In figure texts, Line Spacing will be:1.



Figure 2.1: General view of the campus

## History (Subsection)

Yıldız Technical University is one of the seven government universities situated in İstanbul besides being the 3rd oldest university of Turkey with its history dating back to 1911. It is regarded as one of the best universities in the country as well. Our university has 10 Faculties, 2 Institutes, the Vocational School of Higher Education, the Vocational School for National Palaces and Historical Buildings, the Vocational School for Foreign Languages and more than 25,000 students.

The Istanbul State Engineering and Architectural Academy and affiliated schools of engineering and the related faculties and departments of the Kocaeli State Engineering and Architecture Academy and the Kocaeli Vocational School were merged to form Yıldız University with decree law no.41 dated 20 June 1982 and Law no. 2809 dated 30 March 1982 which accepted the decree law with changes.

The new university incorporated the departments of Science-Literature and Engineering, the Vocational School in Kocaeli, a Science Institute, a Social Sciences Institute and the Foreign Languages, Atatürk Principles and the History of Revolution, Turkish Language, Physical Education and Fine Arts departments affiliated with the Rectorate.

Yıldız Technical University is one of the seven government universities situated in ˙Istanbul besides being the 3rd oldest university of Turkey with its history dating back to 1911.It is regarded as one of the best universities in the country as well [1].

When citing references, as seen above, a space should be placed after the sentence ends. Be careful to start from the headlines at the beginning of the page. For example, after deleting this text, the title at the bottom should be brought to the beginning of the new page.

Citations should be made by selecting Add Citation>Add new source from the References menu. Include resources in IEEE format.

## Faculties (Subsection)

Yıldız Technical University is one of the seven government universities situated in İstanbul besides being the 3rd oldest university of Turkey with its history dating back to 1911. It is regarded as one of the best universities in the country as well. Our university has 10 Faculties, 2 Institutes, the Vocational School of Higher Education, the Vocational School for National Palaces and Historical Buildings, the Vocational School for Foreign Languages and more than 25,000 students.

### [Subsubsection](http://tr.wikipedia.org/wiki/Y%C4%B1ld%C4%B1z_Teknik_%C3%9Cniversitesi_Elektrik-Elektronik_Fak%C3%BCltesi)

Yıldız Technical University is one of the seven government universities situated in İstanbul besides being the 3rd oldest university of Turkey with its history dating back to 1911. It is regarded as one of the best universities in the country as well. Our university has 10 Faculties, 2 Institutes, the Vocational School of Higher Education, the Vocational School for National Palaces and Historical Buildings, the Vocational School for Foreign Languages and more than 25,000 students.



Figure 2.2: General view of the campus

### [Subsubsection](http://tr.wikipedia.org/wiki/Y%C4%B1ld%C4%B1z_Teknik_%C3%9Cniversitesi_Elektrik-Elektronik_Fak%C3%BCltesi)

Yıldız Technical University is one of the seven government universities situated in İstanbul besides being the 3rd oldest university of Turkey with its history dating back to 1911. It is regarded as one of the best universities in the country as well[[1]](#footnote-1).

 (2.1)

 (2.2)

 (2.3)

 (2.4)

 (2.5)

Do not include equations as figures or text. Add by selecting Equation from the Insert menu. Write the equation numbers as SectionNumber.EquationNumber in parentheses as seen above. If you select the equation and the number of the equation justified and leave 1 TAB space between them, the equation will be fully left justified and its number will be fully right justified. Do not forget to refer to equation numbers in the text.

### [Subsubsection](http://tr.wikipedia.org/wiki/Y%C4%B1ld%C4%B1z_Teknik_%C3%9Cniversitesi_Elektrik-Elektronik_Fak%C3%BCltesi%22%20%5Co%20%22Y%C4%B1ld%C4%B1z%20Teknik%20%C3%9Cniversitesi%20Elektrik-Elektronik%20Fak%C3%BCltesi)

Number of student number in departments is given in Table 1.1. Make sure that the table numbers are in the form of Table ChapterNumber.SubtitleNumber (If the Table label does not exist, a new label is added, in the Format tab, the ordering is adjusted according to the chapter number).

Table 2. Example Table Format

|  |  |
| --- | --- |
| DEPARTMENTS | NUMBER OF STUDENT |
| COMPUTER ENGINEERING | 1 |
| ENVIRONMENTAL ENGINEERING | 4 |
| ELECTRICAL ENGINEERING | 4 |
| INDUSTRIAL ENGINEERING | 2 |
| PHYSICS | 3 |
| CIVIL ENGINEERING | 4 |
| CHEMISTRY | 8 |
| MECHANICAL ENGINEERING | 5 |
| MATHS | 7 |

SECTION 3

# PROJE TASARIMINDA GÖZ ÖNÜNEN ALINAN GERÇEKÇİ KISITLAR VE KOŞULLAR

Tasarımı gerçekleştirilen sistem için aşağıdakilere benzer şekilde projenin gerçek hayattaki koşulllara uygunluğu, sağladığı avantajları vs. değerlendirilmelidir.

* Sistemin tasarımında öncelik çevreye ve insana zarar gelmemesidir. Bunun için kullanılan alev ve gaz sensörü gibi cihazlarla çevreye zarar verebilecek yangın, sızıntı ve patlama gibi olayların önüne geçmek amaçlanmıştır. Aynı zamanda kullanılan donanımlar çevre dostu yapısı sebebiyle, çalışırken çevreye zarar vermez.
* Bu projenin temel amacı insanların güvenliğini sağlamak ve insan sağlığını korumaktır. Bu doğrultuda tasarlanmış ve gereken önlemler alınmıştır.
* Bu projede bir güvenlik sistemi tasarlanarak, istihdam edilen güvenlik personeli sayısının azaltılmasına imkân sağlanmıştır. Ayrıca tesislerin daha güvenli olması sağlanarak işletmelerin güvenilirliğinin artması mümkün kılınmıştır.
* Hata giderme ve stabil çalışma amacı ile yayınlanacak güncel yazılımlar ile sistemin güvenliliğinin devamlılığı sağlanır. Ve ihtiyaç durumunda ek donanım ve yazılımlarla, sistem zamana uygun, güncel bir biçimde çalışmaya devam etmesi mümkün kılınır.
* Bu projenin temel amacı insanların güvenliğini sağlamaktır. Herhangi bir güvenlik problemine yol açmayıp, meydana gelen tehlikelerin ve doğal afetlerin en az zararla atlatılmasına imkân sağlar.
* Bu projede haberleşme standartı olarak 802.11g kullanılmıştır. Kullanılan ESP8266 kartı FCC, CE ve TELEC sertifikalarına sahiptir.

SECTION 4

# RESULTS AND DISCUSSIONS

The results obtained in the study will be given in this section.

SECTION 5

# WRITING RULES

## Writing

The graduation project should be written in passive sentences. For example, expressions such as “is obtained”, “is observed” and “is designed” should be used instead of expressions such as “I have obtained”, “I observed”, “I designed”.

The written language should be as simple as possible, technically focused and easy to understand. Long complex sentences should be avoided. Instead, short and clear sentences should be formed with the same meaning.

## Punctuation

* Dot, comma, semicolon, colon, exclamation point and question mark are written adjacent to the word that precedes it and separately from the word that follows it.
* In punctuation marks, quotation marks, single quotation marks, parentheses, square brackets and curly brackets are written adjacent to the text they surround and separate from the outside text.
* Separator is written adjacent to both the word and the suffix.
* When referencing a specific section, figure, table or equation in the text, an appendix is written by placing a separator after the number. For example, it is used as “the block diagram of the system is given in Figure 4.2”, “this is obtained by combining equations (3.2) and (3.4)” and “as discussed in detail in Chapter 3”.

## Citing

Another important point in graduation project writing is to cite the necessary and sufficient amount of citations. Not making enough references means owning someone else's opinion and is against ethical rules. For example, if a block diagram that describes the problem in the study very well is in another work in the literature and this figure will be added to the text, the figure text should be written in a way that includes references as “Figure 2.4 The problem aimed to be solved with the proposed system [8]”. If there is a determination taken from the literature in the sentence used, “According to a study conducted in 2013, only 15% of hospitals in Turkey are equipped with this type of medical equipment [15].” As in the example, the reference number is referred to at the end of the quoted sentence before the period. References to the sentence are written after the last word of the sentence, before the period, separately from the word and adjacent to the point.

## Figures

* ‘Figure’ number and description of the figure are written under the figure.
* Figure number M is written as M.N, section number N and the order of the figure within the section. For example, figure 7 of chapter 1 is numbered "1.7".
* Figure caption should be written with a space of one character after the number, and only the first letter of the first word should be written in capital letters and the other words should be written in lowercase.
* In figures taken exactly from another source, reference is made to the relevant source at the end of the figure caption.

## Tables

* The table must be centered on the page.
* 'Table' the number of the chart and the explanation of the chart are written on the top line of the chart.
* The table number is written as M.N with M being the section number and N being the order of the figure within the section. For example, chart 5 of chapter 2 is “2.5.” is numbered.
* In the table caption, only the first letter of the first word should be written in capital letters and the other words should be written in lowercase letters, leaving a space of one character after the number.
* In tablees taken exactly from another source, reference is made to the relevant source at the end of the table caption.

## Equations

The equation number is written in parentheses, M is the section number and N is the order of the figure in the section (M.N) at the end of the line.

REFERENCES

|  |  |
| --- | --- |
| [1]  | E. Aysu, «Yıldız Teknik Üniversitesi,» %1 içinde *Şehir Planlamasında Yoğunluk*, İstanbul, Yıldız Üniversitesi Yayınları, 2011, p. 214. |
| [2]  | H. Sarbanoğlu, «Yazılım Krizi SSADM,» *Harita Dergisi,* no. 109, pp. 70-93, 1988.  |
| [3]  | M. v. L. Y. Isdale, «An Object Modelling Framework for Geographic Information,» %1 içinde *ISPRS XVII*, Washington, 2-14 August 1992.  |

If you add numbered citations in the text with the Add citation menu, if you right-click on the source table above and select Update field, all sources will be listed. After the table is updated, select the text in the table and choose the style of the Bibliography.

APPENDIX-A

1. THEOREM AND PROFF

If you don't have any attachments, you can delete this section.

APPENDIX-B

1. MATLAB CODESRESUME

**1. STUDENT PERSONAL INFORMATION**

|  |  |
| --- | --- |
| **Name SURNAME**  | : |
| **Birth Place and Date** | : |
| **Foreign Language** | : |
| **E-mail** | : |

**EDUCATION STATUS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Degree** | **Field** | **School/University** | **Graduation Year** |
| High School |  |  |  |

**JOB EXPERIENCES** (If you do not have information about this field, delete it.)

|  |  |  |
| --- | --- | --- |
| **Year** | **Firm** | **Duty** |
| 2010 |  |  |
| 2005 |  |  |
| 2002 |  |  |

**PUBLICATIONS**

**Articles** (If you do not have information about this field, delete it.)

|  |  |
| --- | --- |
| 1. |  |
| 2. |  |

**Proceedings** (If you do not have information about this field, delete it.)

|  |  |
| --- | --- |
| 1. |  |
| 2. |  |

**Books** (If you do not have information about this field, delete it.)

|  |  |
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| 1. |  |
| 2. |  |

**Projects** (If you do not have information about this field, delete it.)

|  |  |
| --- | --- |
| 1. |  |
| 2. |  |

**Awards** (If you do not have information about this field, delete it.)

|  |  |
| --- | --- |
| 1. |  |
| 2. |  |

**2. STUDENT PERSONAL INFORMATION**

|  |  |
| --- | --- |
| **Name SURNAME**  | : |
| **Birth Place and Date** | : |
| **Foreign Language** | : |
| **E-mail** | : |

**EDUCATION STATUS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Degree** | **Field** | **School/University** | **Graduation Year** |
| High School |  |  |  |

**JOB EXPERIENCES** (If you do not have information about this field, delete it.)

|  |  |  |
| --- | --- | --- |
| **Year** | **Firm** | **Duty** |
| 2010 |  |  |
| 2005 |  |  |
| 2002 |  |  |

**PUCLICATIONS**

**Articles** (If you do not have information about this field, delete it.)

|  |  |
| --- | --- |
| 1. |  |
| 2. |  |

**Proceedings** (If you do not have information about this field, delete it.)

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| --- | --- |
| 1. |  |
| 2. |  |

**Books** (If you do not have information about this field, delete it.)

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| 1. |  |
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**Projects** (If you do not have information about this field, delete it.)

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| 2. |  |

**Awards** (If you do not have information about this field, delete it.)

|  |  |
| --- | --- |
| 1. |  |
| 2. |  |

**3. STUDENT PERSONAL INFORMATION**

|  |  |
| --- | --- |
| **Name SURNAME**  | : |
| **Birth Place and Date** | : |
| **Foreign Language** | : |
| **E-mail** | : |

**EDUCATION STATUS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Degree** | **Field** | **School/University** | **Graduation Year** |
| High School |  |  |  |

**JOB EXPERIENCES** (If you do not have information about this field, delete it.)

|  |  |  |
| --- | --- | --- |
| **Year** | **Firm** | **Duty** |
| 2010 |  |  |
| 2005 |  |  |
| 2002 |  |  |

**PUBLICATIONS**

**Articles** (If you do not have information about this field, delete it.)

|  |  |
| --- | --- |
| 1. |  |
| 2. |  |

**Proceedings** (If you do not have information about this field, delete it.)

|  |  |
| --- | --- |
| 1. |  |
| 2. |  |

**Books** (If you do not have information about this field, delete it.)

|  |  |
| --- | --- |
| 1. |  |
| 2. |  |

**Projects** (If you do not have information about this field, delete it.)

|  |  |
| --- | --- |
| 1. |  |
| 2. |  |

**Awards** (If you do not have information about this field, delete it.)

|  |  |
| --- | --- |
| 1. |  |
| 2. |  |

1. Our university has 10 Faculties, 2 Institutes, the Vocational School of Higher Education, the Vocational School for National Palaces and Historical Buildings, the Vocational School for Foreign Languages and more than 25,000 students. [↑](#footnote-ref-1)