



**Protocol on the Establishment of International
Undergraduate Joint Program**

in Architecture

between

**ISTANBUL TECHNICAL UNIVERSITY,
TURKEY**

and

**INTERNATIONAL UNIVERSITY OF
SARAJEVO,**

BOSNIA AND HERZEGOVINA

SECTION 1

GENERAL TERMS

ARTICLE 1 – Purpose and Background

- (1) The purpose of this Protocol is to define the principles and procedures governing the mutual structuring of an international Bachelor of Science joint program between Istanbul Technical University (hereafter referred to as “ITU”), Turkey, and International University of Sarajevo (hereafter referred to as or “IUS”), Bosnia and Herzegovina (both will be referred to as the “parties” or “institutions”) comprising the programs of “Architecture” in ITU and “Architecture” at IUS.
- (2) The institutions agree, by this Protocol, to collaborate with one another on a non-exclusive basis in offering a mutual transfer program of study that will prepare students of both institutions to study their preparatory program (hereinafter: ELS) and first two academic years at IUS and then continue for third and fourth year at ITU, in order that they can complete a Bachelor of Architecture (hereinafter referred to as "ARCH") at ITU and a Bachelor of Architecture at IUS simultaneously.

ARTICLE 2 – Scope

- (1) Terms and conditions defined in this Protocol apply to student admission, curriculum, exams and assessment, attendance, leave of absence, maximum time limits, graduation requirements, academic failure, diplomas, tuition fees, and other issues related to the joint program between ITU and IUS.

ARTICLE 3 – Legal Basis

- (1) This Protocol has been prepared in accordance with (a). Higher Education Law No. 2547, published in the Official Gazette dated 6.11.1981, numbered 17506, (b). Regulation about joint programs at Turkish Higher Education Institutions, published in the Official Gazette on 06.10.2016, numbered 29849, (c). Regulation about the Transfer between Associate Degree and Bachelor’s Degree Programs, Double Major and Minor Programs and Course Credit Transfers between Institutions of Higher Education, published in the Official Gazette dated 24.04.2010, numbered 27561. (d). Regulation about joint programs at ITU, published in the Official Gazette dated 07.03.2018 numbered 30353 and (e) other relevant regulations concerning the operations of IUS.
- (2) ITU and IUS shall have authority and oversight with respect to all matters regarding legal or academic explanations of this protocol, degree programs including but not limited to admission and registration processes, tuition and fees

(including increases and in- state/out-of-state rate determinations), conferring of degrees and maintenance of all of their own official student records. Final decisions regarding IUS's participation in the Program shall be made through a comprehensive administrative process by approval of the Ministry of Education, Science and Youth of Canton Sarajevo, Bosnia and Herzegovina.

- (3) Admission and placement of ITU students into the Program will be carried out by the Measurement, Selection and Placement Center (hereinafter referred to as "OSYM") in accordance with the Turkish regulations to which ITU is subject to and, the agreed admissions standards established by ITU and OSYM for ITU to implement its admission procedures, as required by Turkish regulations, in accordance with the OSYM timetable.

ARTICLE 4 – Definitions

- (1) The concepts and terms used in this Protocol are defined as follows:
 - “AICE” : Cambridge Advanced International Certificate of Education
 - “ARCH” : Architecture
 - “ELS” : English Language School
 - “IB” : International Baccalaureate
 - “iBT” : Internet Based Test
 - “ITU” : Istanbul Technical University, Republic of Turkey
 - “IUS” : International University of Sarajevo, Bosnia and Herzegovina
 - “OSYM” : Measurement, Selection and Placement Center
 - “TOEFL” : Test of English as a Foreign Language
 - “YOK” : Council of Higher Education of Turkey
 - “YKS” : Exam for Higher Education Institutions

ARTICLE 5 – Approval of Council of Higher Education of Turkey

- (1) This protocol will become effective once it has been approved by YÖK. Any changes to this document will also require an approval from YÖK.

SECTION 2 ADMISSIONS

ARTICLE 6 – Student Quotas

- (1) The number of students with Turkish and non-Turkish citizenship that will be admitted to the joint program each year will be determined jointly by ITU and IUS, and YOK will be notified for approval. Unless there is a written modification by both institutions,
 - a) the maximum number of students holding Turkish citizenship to be admitted to the joint program by YKS exam will be fifteen (15) in any given year.
 - b) the maximum number of students holding Bosnian citizenship to be admitted to the joint program will be fifteen (15) in any given year.

- c) the maximum number of transfer students from other departments to be admitted to the joint program will be five (5) in any given year. The application requirements for the relevant students are given in Article 10.
- d) the maximum number of international students to be admitted to the joint program will be 50% out of the total number of annual student quota.

ARTICLE 7 – Admissions of Students holding Turkish citizenship

- (1) Students will be placed in the “Architecture” joint program by OSYM according to their YKS exam scores upon completion of secondary education in Turkey.
- (2) Students will be placed according to the “Quantitative” YKS exam score and, unless declared otherwise, students will be chosen from the top 30.000 students in this exam score type.
- (3) Student admission criteria shall conform to the norms set down by the appropriate accrediting body with respect to English proficiency as defined in ARTICLE 15.

ARTICLE 8 – Admission of Foreign Students”

- (1) Foreign students should fulfill the conditions required by ITU in accordance with the ITU Senate Regulations dated 19.04.2016 and numbered 631, entitled as “Regulations for the Application and Registration-Acceptance of Foreign Students to the Undergraduate Programs” to apply and get accepted into the program.
- (2) Foreign student admission criteria shall conform to the norms set down by the appropriate accrediting body with respect to English proficiency as defined in ARTICLE 15.

ARTICLE 9 – Admissions of Students holding Bosnian citizenship

- (1) Students who are holding Bosnian citizenship should fulfill the conditions listed in public vacancy for enrollment of undergraduate students and those required by the Law on Higher Education of Sarajevo Canton. With the condition that the high school graduation score is at least 3.0/5.0 on the high school transcript obtained in Bosnia and Herzegovina, the applicant is entitled to sit for the entrance exam organized by the IUS committee from the relevant field. The top 15 students who achieved the best total results [average high school score & total points from the entrance exam] will be allowed to apply for enrollment into joint program.
- (2) Students holding Bosnian citizenship admission criteria shall conform to the norms set down by the appropriate accrediting body with respect to English proficiency as defined in ARTICLE 15.

ARTICLE 10 – Admission of Transfer Students from Other Programs into the Joint Program

- (1) Any undergraduate student enrolled in ITU or IUS interested in transferring into the joint program may be considered for admission according to the Regulation about the Transfer between Associate Degree and Bachelor's Degree Programs, Double Major and Minor Programs and Course Credit Transfers between Institutions of Higher Education, published in the Official Gazette dated 24.04.2010, numbered 27561, if they have a cumulative GPA from the previous department or institution(s) of at least 3.0 (out of 4.0) (or the equivalent) and satisfy an interview process of both institutions.
- (2) All students admitted in the program are required to achieve adequate English language proficiency as defined in ARTICLE 15.

SECTION 3 PROGRAM FEES

ARTICLE 11 – Tuition and Fees

- (1) The joint program student is obliged to pay the fees to IUS within the scope of the study period in the Bosnia and Herzegovina as declared by IUS for the relevant academic years along with the ELS fees if attending English Preparatory school. IUS shall announce and collect all tuition and/or fees required to be paid by the students while they are studying at IUS. IUS may establish an international student development fund applicable to students of joint program. Neither institution shall have any liability to the other for any such uncollected student tuition and/or fees.
- (2) The joint program student is obliged to pay the fees to ITU within the scope of the study period in Turkey as declared by ITU for the relevant academic years. ITU shall announce and collect all tuition and/or fees required to be paid by the students while they are studying at ITU.
- (3) While taking courses out of their home countries, all students will be responsible for all of their own living costs, including but not limited to; (a) transportation; (b) room and board expenses; (c) medical insurance (all students visiting IUS will be required to purchase IUS's health insurance before assuming their studies at IUS) and health service fees; (d) textbooks; (e) clothing; (f) personal and miscellaneous expenses; and (g) passport, visa and residence permit costs. IUS and ITU bears no responsibility for providing funds to a student for any purpose.
- (4) Prior to the beginning of their studies at IUS, students will be required to verify that each has sufficient means of support for the duration of each stay at IUS.

- (5) To the extent available, each institution will offer on-campus housing (upon availability) and meal plans to students at additional cost and based upon their regular rates. Each institution will also provide assistance to the students upon request with locating available off-campus housing.
- (6) Annual increase rates will be determined and announced jointly by ITU and IUS.

ARTICLE 12 – Tuition Fee Payment Procedure

- (1) The annual tuition fee of the joint program will be paid in accordance with each institution's procedures. Tuition will be paid in two equal installments. First payment will be made at the time of registration at the beginning of academic year, the second payment will be made at the start of second semester.

ARTICLE 13 – Scholarships

- (1) Unless specifically authorized by the partner institution, neither institution will make any representations or offer any guarantees to prospective students about the likelihood of awards of financial aid or scholarships or student employment at the other institution.

SECTION 4 THE CONTENT OF THE PROGRAM

ARTICLE 14 – Duration of Study

- (1) The duration of study in the joint program will be four (4) academic years. The maximum time limit for a student to complete the 4-year joint program will not exceed seven (7) academic years.
- (2) The Freshman/1st and Sophomore/2nd Academic years of the joint program will be carried out at IUS while the Junior/3rd and Senior/4th Academic years will be carried out at ITU. ELS classes will be given at IUS.

ARTICLE 15 – Medium of Instruction

- (1) The medium of instruction in the joint program is English. All students registered in the joint program are required to achieve an adequate score in one of the English language proficiency tests offered by ITU or IUS. Students should fulfill the English language requirements of IUS to be able to attend courses at IUS starting from their freshmen/1st academic year. Prospective students applying for admission to the joint program shall be expected to have equivalent English language proficiency as other international students applying to and accepted by IUS by the time they take courses in the joint program.
- (2) The required minimum score to start the program is 65/100 for the ITU

proficiency test.

- (3) The required minimum score to start the program at IUS is 75/100 for the placement test and minimum 65/100 for the proficiency test.
- (4) Those students who cannot meet the language proficiency requirement will have an intensive language program at IUS. The maximum duration of the intensive language program is two (2) years.
- (5) Students with Turkish citizenship who cannot meet the language proficiency requirements by the end of two years may be placed into a program where the medium of instruction is Turkish by OSYM, depending on their YKS score achieved in the relevant year.
- (6) In the following cases, prospective students will be exempted from the ELS Proficiency Exam if they have:
 - a) passed TOEFL iBT with 79 points and above
 - b) obtained a high school/BA/MA diploma/degree in a native English speaking country
 - c) high-school diploma from one of the internationally recognized English medium programs below:
 - AICE diploma: Cambridge Advanced International Certificate of Education
 - IB diploma : International Baccalaureate

ARTICLE 16 – Academic Failure

- (1) Students of the joint program who are dismissed from any of the higher education institutions on grant of academic failure shall be dismissed from the joint degree program according to regulation of YÖK published in the Official Gazette on 06.10.2016, numbered 29849.
- (2) A student who is dismissed from one of the universities for any other reason than academic failure is also dismissed from the relevant partner university. All student dismissals shall be made through a consultative process between the institutions.
- (3) Dismissed students with Turkish citizenship may be placed into a program where the medium of instruction is Turkish by OSYM, depending on their YKS score achieved in the relevant year.
- (4) Failed courses will be repeated at the institution where the course is offered.

ARTICLE 17 – Diploma

- (1) The students who fulfill the academic requirements of both institutions shall be granted two independent double diplomas, one of which shall be issued by ITU, and the other shall be issued by IUS.

- (2) The students cannot qualify for any of the diplomas without successfully fulfilling the academic requirements of both institutions in the joint program.
- (3) All joint program students must satisfy both degree requirements at IUS and ITU in order to be jointly and simultaneously awarded their two diplomas from the respective universities. Upon completion of the stated requirements, students cannot be awarded only one of the two diplomas in this joint program.
- (4) The degree designations which will appear on the diplomas are defined as follows:
“Bachelor of Architecture” from ITU and “Bachelor of Architecture” from IUS.
 - (a) The institutions will certify to one another the name, addresses, and student identification number of each student satisfactorily completing the joint program.
 - (b) The institutions will confer their Bachelor of Architecture Degree, together with all rights and privileges pertaining thereto, to each student meeting the respective degree course requirements for the joint program as specified in the **APPENDIX 1** attached hereto.
- (5) Diploma samples are shown in **APPENDIX 1**.
- (6) The phrases which will appear on the diplomas are defined as follows:

On the ITU diploma: *“having satisfactorily completed all the requirements of the Architecture Undergraduate Program carried out jointly by the Faculty of Architecture and the International University of Sarajevo has been awarded the degree of Bachelor of Science with all the rights, privileges and honors thereto appertaining.”*

On the IUS diploma: *“having satisfactorily completed the required four years of theoretical and practical study (minimum 240 ECTS) of the study program of Architecture carried out jointly by the International University of Sarajevo and Istanbul Technical University, has on this (date) been awarded the Degree of Bachelor of Architecture with all privileges connected thereunto”*

SECTION 5

PROGRAM PROCEDURES

ARTICLE 18 – Curriculum

- (1) The curriculum of the joint program, the definitions and the credits of the activities constituting the program, such as courses, laboratories, implementations, internships and thesis, and the division of the curriculum between ITU and IUS appear in **APPENDIX 2**.
- (2) The joint program comprises 240 ECTS in compliance with Turkish Higher

Education Qualifications Framework and Baseline of the Qualifications Framework in Bosnia and Herzegovina.

- (3) Involved departments at each institution will review and approve all core curriculum course offerings in the joint program to ensure that the courses taught at each institution are comparable in content and structure. The course review may include, but is not limited to: (a) the overall course composition; (b) the content and related description for each course which is part of the joint program; (c) texts and other teaching materials appropriate to each course; and (d) qualifications of instructors. The institutions will continue to interact and provide this same review or modification on an annual basis.
- (4) For the approval of this Protocol by competent bodies in Turkey and Bosnia and Herzegovina, involved departments will upon request officially send to each other the list of academic staff responsible for their part of curricula along with official CV's and decisions on holding academic promotions (including scientific field/courses).

ARTICLE 19 – Grading Systems

- (1) Requirements for academic success in each course and the general academic achievement of the student shall be determined in accordance with the regulations of the institution of current study.
- (2) The transcript of the student will be sent to partner institution at the end of each academic year.
- (3) The grading system of ITU appears in **APPENDIX 3**.
- (4) The grading system of IUS appears in **APPENDIX 4**.

ARTICLE 20 – Student Transition Requirements between Partner Institutions

- (1) After successful completion of two (2) years (four-semesters) of study at IUS, with good academic, behavioral and financial standing, students will be permitted to transfer their course grades between the institutions for satisfaction of the Bachelor of Architecture Degree requirements at each institution, provided the following requirements are met:
 - (a) In order for a student to transfer between the institutions (from IUS to ITU), a minimum cumulative GPA of 2.5 on a 4.0 scale or greater will be required.
 - (b) Students will go through each institution's transition processes and therefore must meet all applicable requirements and deadlines pertaining to application for admission, orientation and registration, and payment of tuition and fees.

- (c) Students will abide by all applicable policies and procedures in effect at the institution they are attending.

ARTICLE 21 – Leave of Absence

- (1) The joint program students may be granted a leave of absence for a semester or an academic year on condition that he has documented force majeure and/or medical reasons and submits the relevant documents as required by the respective institution that he/she is attending.
- (2) The duration of the approved leave of absence shall not be counted towards the maximum duration of study.
- (3) The total duration of the leave of absence cannot exceed 50 percent of the legally designated period of education or the period permitted by the applicable regulations of the respective institution.

ARTICLE 22 – Disciplinary Action

- (1) Provisions applicable at the university of current study are applied in handling the disciplinary act and behaviors of students.
- (2) Each institution shall be solely responsible for student conduct and discipline matters relating to its academic operations, including grade appeals, allegations of cheating, plagiarism or classroom rules.

ARTICLE 23 – Transfer Out of the Program

- (1) ITU students may apply for a transfer to the same university in the joint program or another joint program conducted in the same field in another university in accordance with the provisions concerning “Transfer between Associate Degree and Bachelor’s Degree Programs, Double Major and Minor Programs and Course Credit Transfers between Institutions of Higher Education” published in the Official Gazette dated 24.04.2010 and numbered 27561.
- (2) Transfers by ITU students from the joint program to another program within the country can be made in accordance with the provisions of the regulations set by the first item of this Article.
- (3) Transfers by IUS students from the program to another program within Bosnia and Herzegovina or from the program within the country to an international program can be made in accordance with the provisions of the regulations set by the IUS transfer procedure, upon communication with ITU.

SECTION 6
MISCELLANEOUS AND FINAL PROVISIONS

ARTICLE 24 – Additional Provisions

- (1) Any issue not expressly specified in this Protocol shall be subject to the provisions stated in Article 3.
- (2) Use of Names: Subject to IUS's prior approval, ITU will be authorized to use IUS's name and logo on a non-exclusive basis in conjunction with ITU joint program brochures, publications, advertisements, letterhead, and material, which make reference to this Protocol agreement. Subject to ITU's prior approval, IUS will be authorized to use ITU's name and logo on a non-exclusive basis in conjunction with IUS's joint program brochures, publications, advertisements, letterhead, and material, which make reference to this Protocol. Each institution agrees to follow any reasonable trademark usage and/or branding guidelines provided by the other institution in connection with its exercise of this license.
- (3) Annual Visits: IUS and ITU agree that an annual visit by a representative from each institution to the other institution would be beneficial, although it is not a required part of this Protocol. Senior officials/faculty members on such visits will be received with local hospitality.
- (4) Notices: Any notices relating to this Protocol should be in writing (which includes facsimile or e-mail) and shall be sent to the recipient's address set forth above (or at such other addresses as may be stated in notices similarly given) and directed to the Rector and Vice-Rector of IUS and the Rector and Vice-Rector of ITU, and/or such other representatives as designated in writing by the institutions.

ARTICLE 25 – Term and Enforcement

- (1) This Protocol shall be effective for five (5) years starting from the date of the approvals by the official authorities. The protocol may be renewed for successive five (5) year periods upon mutual agreement approved by YÖK.

ARTICLE 26 – Termination

- (1) Either institution may terminate this Protocol early upon giving written notice thereof to the other institution at least ninety (90) days before the end of any semester. Such early termination notice shall be effective for the upcoming semester and without further liability or obligation to the other institution. Any provision of this Protocol that by its nature is intended to survive termination and/or expiration of this Protocol, shall survive termination and/or expiration of this Protocol.

- (2) In the event that this Protocol expires and/or is terminated early, the institutions commit that they shall formulate a "teach-out" plan applicable to all then enrolled students who are at any stage of the joint program, including permitting such affected students to pursue alternative transfer options or course completion methods to the extent permitted under the Protocol established herein. The institutions agree that any early termination shall be made through a consultative process and that all affected students shall be notified of the same as soon as possible along with all available alternative options.
- (3) This Protocol will be terminated upon official change of non-profitable nature of IUS operation as defined in the Article 1 item (3) of this Protocol.

ARTICLE 27 – Dispute Resolution

- (1) Any dispute arising out of the interpretation, amendment, performance or breach of this Protocol shall be settled amicably through negotiations between the partner institutions.

ARTICLE 28 – Confidentiality

- (1) Confidential Information: Both institutions will keep confidential all information provided by the other institution which is marked, identified and/or reasonably understood as confidential at the time of disclosure other than to the extent disclosure is required to perform this Protocol or required by law or legal process to be disclosed.
- (2) Student Records: Both institutions recognize that IUS is bound to comply with the Law on Higher Education in Canton Sarajevo and the Statute of IUS approved by Ministry of Education, Science and Youth of Canton Sarajevo, as it may be amended from time to time, in the handling of educational records of students enrolled at IUS. The institutions' transmittal of all student records shall be in accordance with local privacy laws and if required, the home institution will obtain written student consents and/or releases for the same. All student records will be used by the institutions for registration, admission and academic purposes only.

ARTICLE 29 – Student Residence Permit

- (1) Once admitted into the joint program, students will be considered enrolled at the institution which they are physically attending and considered as non-enrolled but maintaining registration at the institution in which they are not physically attending. Students from IUS will apply for Bosnian student residence permits by the start of their Freshman/1st Academic year for study (which might include language preparatory program) all until the completion of their Sophomore/2nd Academic year. During the ITU students' Junior/3rd Academic year and Senior/4th Academic year, ITU will provide confirmation of all students'

enrollment and physical presence at ITU at the start of each academic year therein. IUS makes no promise, representation of guarantee of students obtaining the necessary residence permit for study in the Bosnia and Herzegovina. Students holding Bosnian citizenship must obtain Turkish student residence permit. ITU makes no promise, representation of guarantee of students obtaining the necessary residence permit for study in Turkey.

ARTICLE 30 - Quality Assurance and Inspection by YÖK

- (1) ITU will continually monitor the quality of the program and conduct audits and quality reviews at least once in a year.
- (2) After this protocol becomes effective, both institutions agree to be audited by YÖK at any given date.

This Protocol has been signed by the authorized representatives of the institutions on the dates set forth below in four copies in Turkish and English all texts being equally authentic. In case of any divergence of interpretation, the English text shall prevail. ITU and IUS expressly consent and agree that electronic or scanned signatures appearing on this Protocol shall be treated for purposes of validity, enforceability as well as admissibility, the same as hand-written signatures.

This Protocol provides to timely submit applications to YOK (by ITU) and Ministry of Science, Education and Youth of the Canton Sarajevo (by IUS) where it becomes effective upon final approval issued by competent bodies in both countries.

AGREED AND ACCEPTED:

For IUS:
International University of Sarajevo

For ITU:
Istanbul Technical University

Prof. Dr. Ahmet Yildirim
Rector

Prof. Dr. Mehmet Karaca
Rector

Dated:

Dated:

APPENDICES:

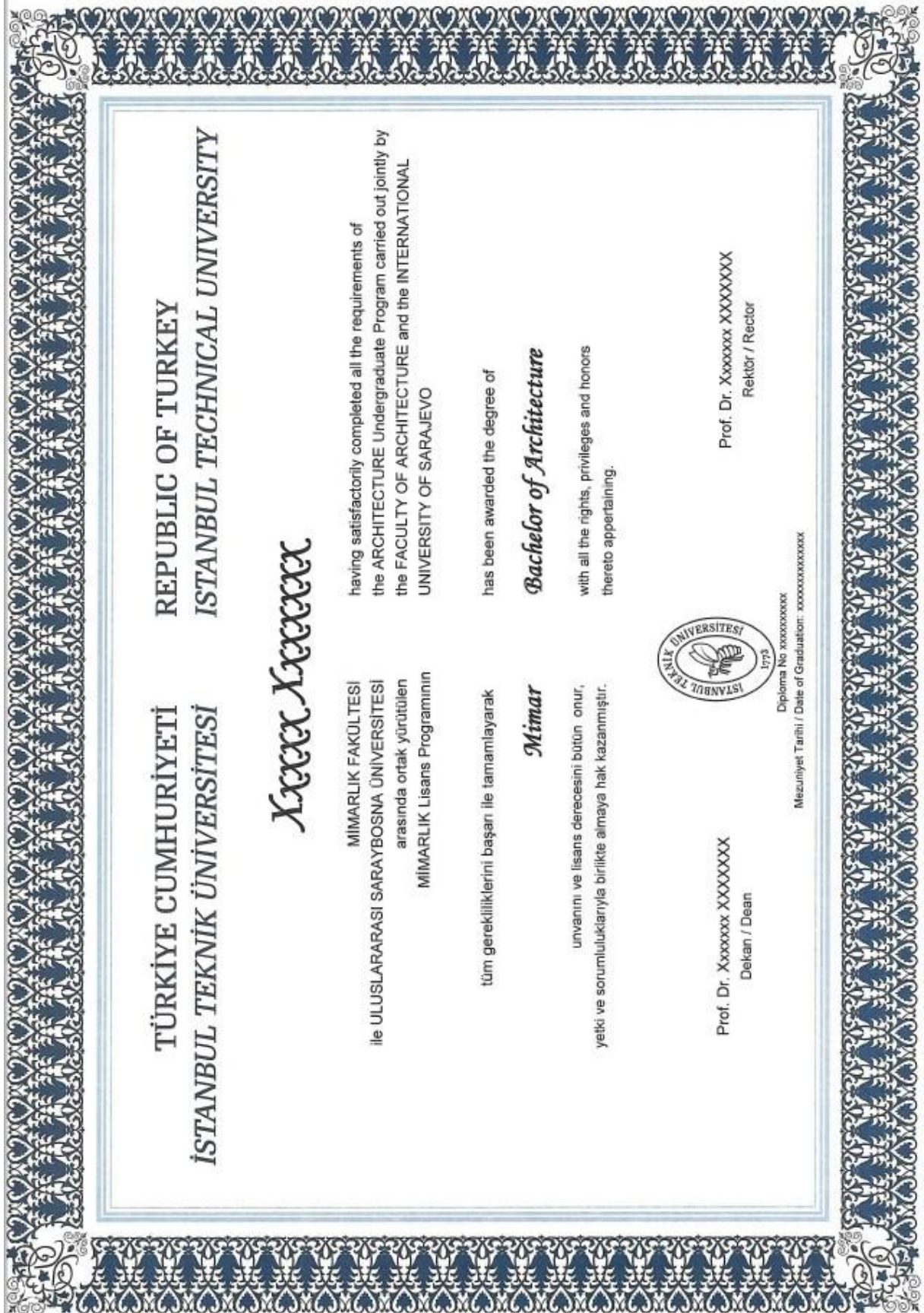
APPENDIX 1 – Diploma samples concerning the Joint Program

APPENDIX 2 – Curriculum of the Joint Program

APPENDIX 3 – The grading system of ITU

APPENDIX 4 – The grading system of IUS

APPENDIX 1 - Diploma samples concerning the joint program



	<p>BOSNA I HERCEGOVINA INTERNACIONALNI UNIVERZITET U SARAJEVU SARAJEVO FAKULTET PRIRODNIH I TEHNIČKIH NAUKA</p>	<p>BOSNIA AND HERZEGOVINA INTERNATIONAL UNIVERSITY OF SARAJEVO SARAJEVO FACULTY OF ENGINEERING AND NATURAL SCIENCES</p>
<p><i>Name (Fathers name) Surname,</i></p> <p>rođen(datum) godine u(mjesto),(država), završio je dana godine prvi ciklus studija u trajanju od četiri (4) godine/osam (8) semestara i ostvario minimalno 240 ECTS bodova na studijskom programu Arhitekture, koji je zajednički realiziran od Internacionalnog univerziteta u Sarajevu i Tehničkog univerziteta u Istanbulu, i na osnovu toga se izdaje</p>	<p><i>Name (Fathers name) Surname,</i></p> <p>born on (date) in (place), of (country) having satisfactorily completed the required four years of theoretical and practical study (minimum 240 ECTS) of the study program of Architecture carried out jointly by the International University of Sarajevo and Istanbul Technical University, has on this ..th day of (month and year) been awarded</p>	
<p><i>Diploma</i></p> <p>o stečenoj akademskoj tituli i stručnom zvanju</p> <p>BAKALAUREAT/BACHELOR INŽINJER ARHITEKTURE</p> <p>Sarajevo, (date) Broj:</p> <p>DEAN DEKAN</p> <p>Prof. Dr.</p>		<p><i>The Degree</i></p> <p>of</p> <p>BACHELOR OF ARCHITECTURE</p> <p>With all the privileges connected thereunto</p> <p>Date: Number:</p> <p>RECTOR REKTOR</p> <p>Prof. Dr.</p>

APPENDIX 2 - Curriculum of the Joint Program

1. Semester

Course Code	Course Title	Theoretical	Tutorial	Lab.	ECTS	Compulsory/Elective	Semester	Prerequisites
MATH101	Calculus I	3	2	0	6	C	1	
ELIT100	Academic English and Effective Communication	2	1	0	6	C	1	
ARCH100	Introduction to Architectural Design	2	4	0	6	C	1	
ARCH208	Architectural Communication	1	3	0	6	C	1	
ARCH101	Basic Design Communication	1	2	0	6	C	1	
		30						

2. Semester

Course Code	Course Title	Theoretical	Tutorial	Lab.	ECTS	Compulsory/Elective	Semester	Prerequisites
ELIT200	Critical Reading and Writing	2	1	0	6	C	2	
ARCH109	Basic Design Communication II	1	1	0	4	C	2	ARCH101
ARCH106	Introduction to Building Technology	1	2	0	4	C	2	
ARCH108	Introduction to Architectural Design II	2	4	0	6	C	2	ARCH100
ARCH102	History of Architecture I	1	2	0	6	C	2	
ARCH216	Introduction to CAD	1	2	0	4	C	2	
		30						

3. Semester

Course Code	Course Title	Theoretical	Tutorial	Lab.	ECTS	Compulsory/Elective	Semester	Prerequisites
-------------	--------------	-------------	----------	------	------	---------------------	----------	---------------

ARCH217	History of Architecture II	2	1	0	6	C	3	ARCH102
ARCH201	Architectural Design Studio I	2	6	0	12	C	3	ARCH108
ARCH204	Structural Design I	1	2	0	4	C	3	
ARCH203	Building Services I	1	2	0	4	C	3	
ARCH311	Materials in Architecture	1	2	0	4	C	3	ARCH106
30								

4. Semester

Course Code	Course Title	Theoretical	Tutorial	Lab.	ECTS	Compulsory/Elective	Semester	Prerequisites
ARCH202	Architectural Design Studio II	2	6	0	12	C	4	ARCH201
ARCH210	Structural Design II	1	2	0	4	C	4	ARCH204
ARCH211	Building Services II	1	2	0	4	C	4	ARCH203
ARCH312	Building Construction	1	3	0	6	C	4	ARCH311
	Program Elective	1	2	0	4	E	4	
30								

5. Semester

Course Code	Course Title	Theoretical	Tutorial	Lab.	ECTS	Compulsory/Elective	Semester	Prerequisites
EKO 201E	Economics	3	0	0	4	C	5	
MIM 351E	Architectural Design V	2	6	0	8	C	5	ARCH202
MIM 331E	Building Production Systems	2	0	0	3	C	5	
MIM 321E	Contemporary Architecture	2	0	0	3	C	5	ARCH207
MIM 341E	Urbanism and Planning Law	2	2	0	4	C	5	
MIM 322E	Cons of Historic Buildings & Sites	2	0	0	4	C	5	
MIM 305E	Statistics	1	2	0	3	C	5	
TUR 101	Turkish I	2	2	0	2	C	5	
31								

6. Semester

Course Code	Course Title	Theoretical	Tutorial	Lab.	ECTS	Compulsory/Elective	Semester	Prerequisites
MIM 312E	Architectural Design VI	2	6	0	8	C	6	MIM351E
MIM 332E	Const. Management & Economy	3	2	0	5	C	6	
MIM 421E	Arch Survey & Restoration Studio	2	2	0	5	C	6	MIM322E
TUR 102	Turkish II	2	2	0	2	C	6	TUR101
DAN 301E	Career Advising	0	2	0	1	C	6	
	6th Term Elective Course (MT)				4	C	6	
	6th Term Elective Course (MT)				4	E	6	
	6th Term Elective Course (MT)				4	E	6	
					33			

7. Semester

Course Code	Course Title	Theoretical	Tutorial	Lab.	ECTS	Compulsory/Elective	Semester	Prerequisites
MIM 411E	Architectural Design VII	2	6	0	8	C	7	MIM312E
MIM 431E	Construction Project	2	6	0	12	C	7	ARCH311 ARCH312 ARCH211
ATA 101	Atatürk's Principles and History of Turkish Revolution I	2	2	0	2	C	7	
	7th Term Elective Course (MT)				4	E	7	
	7th Term Elective Course (MT)				4	E	7	
	7th Term Elective Course (MT)				4	E	7	
					34			

8. Semester

Course Code	Course Title	Theoretical	Tutorial	Lab.	ECTS	Compulsory/Elective	Semester	Prerequisites
MIM 4902E	Diploma Project	1	8	0	12	C	8	MIM411E MIM431E
ATA 102	Atatürk's Principles and History of Turkish Revolution II	2	2	0	2	C	8	ATA101
	8th Term Elective Course (MT)				4	E	8	
	8th Term Elective Course (MT)				4	E	8	
	8th Term Elective Course (ITB)				4	E	8	
	8th Term Elective Course (ITB)				4	E	8	
					30			

Elective Courses from IUS

ARCH 371	Descriptive geometry
ARCH 372	Compositions in Architecture
ARCH 373	Interior Design
ARCH 375	Perspective and Shadows
ARCH 376	History of Art
ARCH 377	Architectural Anthropology
ARCH 360	Digital Architecture and Fabrication
ARCH110	Freehand Drawing
ARCH 308	Urban History

Elective Courses from ITU

MIM 320E	Roof Systems
MIM 330E	Vertical Circulation Systems
MIM 378E	Tall Building Structures
MIM 433E	Infill Problems in Urban Historic Sites
MIM 315E	Acoustical Problems in Architecture
MIM 325E	Acoustical Design of Halls for Speech and Music

MIM 335E	Energy Efficient Housing
MIM 356E	Photography
MIM 415E	Housing Design Philosophy of Contemporary Architects
MIM 425E	Architecture Today
MIM 427E	Restoration of Cultural Property
MIM 429E	Topographical Practices: Architecture, Art and the City
MIM 435E	Modern Concepts of Architectural Conservation
MIM 437E	Analyses and Critics on Contemporary World Architecture
MIM 440E	Generating Liveable Environments
MIM 461E	Environmental Design for the Disabled and Elderly
MIM 465E	Building Sub-Structure and Ground
MIM 471E	Earthquake Resistant Building Design
MIM 494E	Special Topics of Construction Project Management
MIM 370E	Internal Sub-Division Systems
MIM 432E	Entrepreneurship in Construction Industry

JOINT PROGRAM IN ARCHITECTURE between ISTANBUL TECHNICAL UNIVERSITY, TURKEY and INTERNATIONAL UNIVERSITY OF SARAJEVO, BOSNIA AND HERZEGOVINA

COURSE DESCRIPTIONS

MATH101 Calculus I

ECTS 6 (3+2)

This course covers the following topics: Functions of one real variable including polynomial, rational, trigonometric and other functions. Limits and continuity. Derivatives. Rules of derivatives. Derivatives of basic functions. Properties of differentiable functions. Derivatives of higher degrees. Graphing, tangents and normal, asymptotes, local and global extrema. Antiderivatives, substitution of variables. Antiderivatives of rational functions, trigonometric functions. Finite sums, algebra rules. The Riemann sums and integral. The Fundamental Theorem of Calculus.

ELIT100 Academic English and Effective Communication (UNI)

ECTS 6 (2+1)

This course is designed to help students achieve success in their academic and professional lives by developing fundamental skills necessary for effective communication. The course deals with organizing academic presentations, writing essays, incorporating different types of sources into speeches and writings, and utilizing various communication strategies in formal and informal settings. Students will develop their skills and techniques through frequent assignments and class activities.

ELIT200 Critical Reading and Writing (UNI)

ECTS 6 (2+1)

This course is designed to endow students with the skills essential to critically approach, analyse, and evaluate an array of real-world and literary texts across different genres, styles, and registers. The course focuses on critically reading and analysing texts on contemporary issues, such as artificial intelligence, satire, social media, and discrimination, using a plethora of both academic and critical thinking skills such as skimming, scanning, analysing, summarizing, inferring, inducing, deducing, reasoning, etc. Furthermore, the course aims at building students' argumentation skills in speech and writing - the former through students' presentations/speeches and the latter through writing argumentative essays.

ARCH100 Introduction to Architectural Design**ECTS 6 (1+2)**

To develop the students' capability to design different functional units in one individual house by using architectural standards, regulations and architectural language (functional units for living and working, sleeping and kitchen).

ARCH101 Basic Design Communication**ECTS 6 (2+4)**

This course aims to develop and demonstrate essential communication skills and to teach students how to present their design ideas graphically and in the form of the simple model. Principles of sketching, 2D orthographic projection and perspective drawings, simple model making of building proposals, written and verbal communication and information literacy will be integrated within the design process and communication.

ARCH102 History of Architecture I**ECTS 6 (1+2)**

To strengthen the capacity for developing creative and responsible solutions to the professional challenges based on the appropriate level of knowledge of the ideas and practices of architecture from pre-history to the late fifteenth century in the diverse regional and historical contexts.

ARCH106 Introduction to Building Technology**ECTS 6 (1+2)**

The course aims to introduce students to fundamental concepts and principles of building construction, materials and techniques, to get students acquainted with elements of construction technologies, and to introduce students to technical presentation of small buildings.

ARCH108 Introduction to Architectural Design II**ECTS 6 (1+2)**

To learn students to the fundamentals of a design of an individual house. To understand design of houses by applying architectural standards, regulations, and architectural language. To design semi-detached dwelling on the defined site for the chosen project that fits the needs of contemporary life.

ARCH109 Basic Design Communication II**ECTS 3 (1+1)**

Within this course, students shall increase awareness of the creative process and present realizations of conceptual ideas using appropriate tools, applications and techniques, such as drawing, painting, collage, photography, and model.

ARCH201 Architectural Studio I**ECTS 12 (2+6)**

The course establishes foundation for architectural design of individual and collective housing engaging issues of space, organization, use, structure and material.

ARCH202 Architectural Studio II**ECTS 12 (2+6)**

To introduce students with the fundamentals of collective housing design and to develop the students' capability to design residential building using architectural standards, regulations and architectural language.

ARCH203 Building Services I**ECTS 4 (1+2)**

This course aims to have knowledge and understanding of principal services in domestic and commercial buildings. The course looks closely at the applications of some common elements of building services practice, technique and procedure with illustrations, design examples, tables and charts and theory.

ARCH204 Structural Design I**ECTS 4 (1+2)**

This course aims to provide students with a basic concepts and principles of structural design of buildings. Students will be exposed to the basic structural elements, their shapes, behaviour, and common structural systems. Regular assignments experience and skills will be gained and learned

through problem sets and a simple design project.

ARCH208 Architectural Communication

ECTS 6 (1+3)

This unit of study introduces experimental analogue and digital technology into modes of architectural communication. It re-considers imagery, modelling, and verbal and written communication through computer aided operations, interfaces and projective techniques.

ARCH210 Structural Design II

ECTS 4 (1+2)

This course aims to provide students with fundamental concepts of basic design of building structures and the use of major construction materials. Students will be exposed to concepts of both concrete and steel design at the element and system levels. An understanding of practical design issues will be developed. Design skills will be learned through problem sets and a comprehensive design project.

ARCH211 Building Services II

ECTS 4 (1+2)

This course aims to introduce students the basic knowledge and understanding of principal services in domestic and commercial buildings.

ARCH216 Introduction to CAD

ECTS 4 (1+2)

This course will introduce knowledge and skills required for computer aided design and presentation of 3D modelling. The students will learn the visualizations of design objects; develop computing skills in the use of AutoCAD and demonstrate visual skills in the use of 3D modelling tools in SketchUP, to produce and display accurate models of domestic scale buildings and structures. With the use of these design software, the students will be able to apply their knowledge and develop computer generated, multi-layered 2D design, and construction drawings, completed with: dimensions, notations and conventional drawing graphics, 3D parallel and perspective representations with shaded, coloured or rendered surfaces as well as static and dynamic presentations that enhance and extend design communications.

ARCH217 History of Architecture II

ECTS 6 (2+1)

To strengthen the capacity for developing creative and responsible solutions to the professional challenges based on the appropriate level of knowledge of the ideas and practices of architecture from 15th century to the Modern Time (19th century) in the diverse regional and historical contexts.

ARCH311 Materials in Architecture

ECTS 4 (1+2)

To introduce students in principles and application of various contemporary materials in building construction, and especially in finishing level. Students will be familiar with the proper use of main construction and finish work materials in construction process.

ARCH312 Building Construction

ECTS 4 (1+3)

To introduce students in principles of building systems, construction methods and techniques, to get students familiarized with structural as well as finish works to be implemented in construction process.

MIM 321E Contemporary Architecture

ECTS 3 (2+0)

The social and cultural bases of Modernity founded in the periods of Renaissance and Enlightenment. An elitist answer to the project of Modernity: Art Nouveau. Modernity and Avantgardism: De Stijl, Expressionism, Futurism and Constructivism. The idealism and realism of Bauhaus. Discussion on the concepts of form and function. The pioneers of modern architecture. The congress of CIAM. Architecture and social responsibility. The application of modernity to the urban scale. The moderate modernity of Art Deco. The dark side of modernity:

Totalitarian architecture. Modernism during the 1950's and 1960's: The International Style. The sensibility on the historic environment and the primary reactions against modernism. Postmodernism: Meaning and form richness. From Pop Art to the commercial kitsch. New Historicism. The European Postmodernism. Philosophy, which has been built: Deconstructivism.

MIM 322 E Conservation of Historic Buildings and Sites **ECTS 4 (2+0)**

History and theory of conservation, evaluation of historic buildings and sites. Historic building survey, inspection and recording. Diagnosis of building failures. Restoration techniques (consolidation of materials and structures, reintegration, renovation, reconstruction, etc). Introduction to urban conservation methodology. Listing buildings and spaces of architectural and historic importance, urban conservation plans, and integrated conservation. National legislation concerning conservation. Administrative aspects of conservation in Turkey. Conservation education.

MIM 331E Building Production Systems **ECTS 3 (2+0)**

Definition of Building Production System (BPS). Elements of BPS: resources, process and product. Constraints of BPS: environment, aims, criteria. Development of BPS from standpoints of resources, process, product and organisation in parallel with social and technological changes. Characteristics of building sector. The product characteristics and demand characteristics in the building production. Evaluation of building systems in terms of resource utilization/speed/quality. Principals in building system selection.

MIM 341 E Urbanism and Planning Law **ECTS 4 (2+2)**

History of urban planning process. Urban Components: Residential, commercial, recreational areas and transportation. Population and land use densities. Development plans, their purposes and implementation technics. Planning law, regulations and architecture. Urban design principles. Urban spatial patterns. Term paper: Analysis of urban elements and spatial patterns in an historic urban area. Definition of problems and proposal of solutions.

MIM 351 E Architectural Design V **ECTS 8 (2+6)**

Development of personalized processes of data collection, analysis and building programming which reflect the nature and interests of designers; discussions and definition on design aspects including topos, program, space, identity, representation in reference to the particular design situation; development of ability of applying the knowledge about structures, construction and detailing through the design process; control of the ability of developing complicated programs for complex urban tissues and integrating relevant design solutions.

MIM 305E Statistics **ECTS 3 (1+2)**

Data collection, probability, probability distributions, correlation, regression, hypothesis testing, data visualisation.

EKO 201E Economics **ECTS 3 (3+0)**

Introduction to the principles of micro and macroeconomics; the fundamental problems of economies; the modelling of household and firm behaviours; market structures; the principles of public finance; the modelling of macroeconomics in an international context.

MIM 312 E Architectural Design VI **ECTS 8 (2+6)**

Development of personalized processes of data collection, analysis and building programming which reflect the nature and interests of designers; discussions and definition on design aspects including topos, program, space, identity, representation in reference to the particular design situation; development of ability of applying the knowledge about structures, construction and detailing through the design process; control of the ability of developing complicated programs

for complex urban tissues and integrating relevant design solutions.

MIM 332 E Construction Management and Economics **ECTS 5 (3+2)**

Basic concepts. Participants of the building production. Managerial and Economic decisions at different levels (sector, firm, project, operational) of building production process. Design and construction firms; functions, organisational patterns. Evaluation of building investments; feasibility studies. Project delivery systems, organisational structures and, type of contracts. Cost management; cost estimation, cost planning and control, factors affecting building costs. Time and resource management; time and resource estimation, planning and control; site management, site planning. Risk management; risk planning and control. Quality management; quality planning and control, specifications. Information management; information systems in construction management. Productivity in building production. The role of architects in different stages of building production process. Construction laws and regulations. Progress control, changes, claims and disputes, progress measurement, progress payments, closeout. Practices on building cost estimation, project planning/programming and feasibility studies.

MIM 421 E Architectural Survey and Restoration Studio **ECTS 5 (2+2)**

Use of traditional and optical methods for surveying historic structures: research and documentation before and intervention, degrees and methods of intervention. Measuring and producing measured drawings of historic building in the historic part of the town. Damage assessment. Proposal for restitution and restoration.

MIM 411 E Architectural Design VII **ECTS 8 (2+6)**

Development of personalized processes of data collection, analysis and building programming which reflect the nature and interests of designers; development of ability of applying the knowledge about structures, construction and detailing all through the design process by design problems; control of the ability of developing complicated programs for buildings - building groups in complicated environments and finding relevant design solutions.

MIM 431 E Construction Project **ECTS 12 (2+6)**

Building construction, environmental control systems and project management within the scope of detailed project. Preparation of detailed project. Preparation of detailed project according to building codes and regulations such as earthquake. Integration of building sub-systems such as load bearing, installation, mechanical, electrical systems. Preparing documents and detail drawings according to municipal drawing principles.

MIM 492 E Diploma Project **ECTS 12 (1+8)**

Analysis and investigation of the constraints, possibilities and requirements of the building program, the site and its environment and other design factors such as psychological, social, technological and aesthetic, within this context, providing interactive seminars to the students by the group leaders and / or by the experts they would recommend. Transformation of design information into design knowledge, Concept development, Definition of design criteria and priorities related to design proposal, Transformation of the outcome of analysis studies into ideas for spatial relations. Synthesis of design knowledge and experience gained throughout the design education. Development of solution alternatives and the proposal of a final solution.

ATA 101 Atatürk's Principles and History of Turkish Revolution I **ECTS 2 (2+2)**

A definition of Revolution/Renovation. The aim and the importance of the Turkish history of renovation. General state of the Ottoman Empire, the reason for the decline. Efforts to save the Ottoman Empire. The current ideals. The First World War. Societies. Mustafa Kemal in Anatolia and the Congresses. The opening of the Great Turkish National Assembly. Reactions to the National Government. National and International policy. The Mudanya treaty. Lausanne

conference.

ATA 102 Atatürk's Principles and History of Turkish Revolution II **ECTS 2 (2+2)**
The declaration of the Republic. The importance of the leader and the staff in the revolution. Constitutional solutions to the problems related to the Lausanne Conference. The participation of Turkey in pacts and in international organizations. Reactions to the new governmental structure. Trials in the multi party system. The Home and foreign policy of the Republic of Turkey. Atatürk's foreign policy to inspire confidence in the future of Turkey. Kemalism the Principles of Atatürk.

TUR 101 Turkish I **ECTS 2 (2+2)**
Definition of Language, Language and Thought, Language and Culture, World languages (In Point of Origin and Structure), The Significance of Turkish Language among World Languages, The Historical Development of Turkish Language, The Structure of Turkish Language, Turkish Phonetics, Today's Turkish Language, The Act of Writing and the Rules of Writing (Orthography), Spelling Rules, The Right Expression of Thought, Scientific Language and Turkish as a Scientific Language, Turkish Poetry and Poetry Language.

TUR 101 Turkish II **ECTS 2 (2+2)**
Written Expression, Method and Planning of Written Expression, Writing Exercise, Scientific Texts (Article – Report – Critic), Official Texts (Petition – Resume), Genres of Literature, Essay, Column, Travel Writing, Biography, Story, Novel, Verbal Literature, Verbal Expression and Communication.

Elective Courses from IUS:

ARCH360 Digital Architecture and Fabrication **ECTS 4 (3+0)**
Students will be instructed in the principles of 3-D modelling using Rhinoceros NURBS modelling software. In a laboratory setting, students will have an opportunity to practice the strategies and methods commonly used in creating and solving 2-D and 3-D geometric problems. Information given in lectures and demonstrations will address aspects of modelling free-form curves, surfaces, and solids. Students will be introduced to a variety of 3-D model applications as they are used in illustration, engineering, design, documentation drawing, entertainment, and animation.

ARCH371 Descriptive Geometry **ECTS 4 (3+0)**
Students will be instructed in the principles of descriptive geometry, branch of geometry with clash of today tendencies in architectural design. They will have an opportunity to practice the strategies and methods commonly used in creating and solving problems of three-dimensional geometry by generating two-dimensional views extending drawing and making realm of architectural designs. Information given in lectures and demonstrations will address aspects of modelling a 2-dimensional picture of geometric objects called views and projections, 2 or 3 dimensional figures mapped onto planes or 3 dimensional surfaces.

ARCH372 Compositions in Architecture **ECTS 4 (3+0)**
The course aims are to introduce students to architectural composition. Students should understand basic relations between forms and their impact in surroundings. The second aim is to introduce them to critical thinking in design, as well as decision making in the field of architectural form.

ARCH373 Interior Design **ECTS 4 (3+0)**

This course will give an introduction to the theories and practices of contemporary interior design. Students will acquire an understanding of the theories, concepts and techniques employed by interior designers, allowing them to utilize the same skills and knowledge in their own designs.

ARCH375 Perspective and Shadows

ECTS 4 (3+0)

The course aims to introduce students to the construction of perspective, foreshortening, proportion as well as construction of shadows.

ARCH376 History of Art

ECTS 4 (3+0)

The history, theory and context of art practice from prehistory to and including the twentieth century. Students will be introduced to some of the most significant developments in the visual arts and gain an understanding of how they might be interpreted and how themes represented and techniques employed have been utilized in architectural practice.

ARCH377 Architectural Anthropology

ECTS 4 (3+0)

The course aims to obtain comprehensive understanding of architecture as a cultural phenomenon and focus on the anthropological view of architecture with specific reference to the built form, place making and urban form.

ARCH110 Freehand Drawing

ECTS 4 (3+0)

To introduce students with the hand drawing, the perspective, foreshortening, proportion, relation of geometric bodies among each other and their correlation with environment.

ARCH308 Urban History

ECTS 4 (3+0)

The course will introduce students to certain historical developments within urban development from prehistory up to and including the twentieth century. In order to satisfy the assessment criteria students will be expected to be able to identify key aspects of historical urbanism and styles and understand the reasons for urban development.

Elective Courses from ITU:

MIM 320E Roof Systems

ECTS 4 (3+0)

Introduction to roof systems. Roof systems: classification. Roof system components: structural system, roof coverings, thermal insulation, waterproofing, air barrier, vapour retarders, etc. Assembly of components. Roof drainage systems. Integration of roof systems with external wall systems-facades. Sustainable roof systems: green roofs, cool roofs, PV roofs.

MIM 330E Vertical Circulation Systems

ECTS 4 (3+0)

Objectives, scope of the course and related definitions. Vertical circulation systems: ramps and staircases. Performance analysis of vertical circulation systems: environmental factors, user requirements, performance requirements according to basic functions. Classification of staircases: external and internal stairs, staircase for fire escape. Physical analysis of staircase, forming, supporting, dimensioning, proportioning, and integration with building. Studio work: analysis, design, and evaluation of staircases.

MIM 378E Tall Building Structures

ECTS 4 (3+0)

Introduction. Design criteria. Loading. Frame structures. Wall structures. Frame-Wall structures. Tubular structures. Suspended structures. Approximate analysis methods. Evaluation of some typical samples related to all system types.

MIM 433E Infill Problems in Urban Historic Sites

ECTS 4 (3+0)

Typologies of buildings, groups of buildings and characteristics of streets, blocks, many various

examples of historic centres. The main principles and data, which must be taken in consideration for the construction of new buildings in dense historic areas. International decisions related to these principles. Discussions on the European and American examples of different important approaches. New buildings in historic centres of Istanbul and other Anatolian traditional towns and their evaluation.

MIM 315E Acoustical Problems in Architecture

ECTS 4 (3+0)

Sound, vibration and human perception; Noise in community and buildings; noise control criteria and standards relative to human health & comfort, principles of noise control at different phases of architectural design, insulation against air borne and structure borne sounds, noise and vibration control in HVC systems; Auditorium acoustics and architectural design: criteria and standards for multipurpose use; Applications to specific building types: residential, commercial, educational, health and public buildings, industrial buildings and functional spaces such as studios, rooms, theatres and music halls.

MIM 325E Acoustical Design of Halls for Speech and Music

ECTS 4 (3+0)

Concepts, acoustical requirements in auditorium design (adequate loudness, diffusion of sound, control of reverberation, elimination of room acoustical defects, noise and vibration control); Determination of total room absorption choice of sound absorbing material; Acoustical design of ceiling.

MIM 335E Energy Efficient Housing

ECTS 4 (3+0)

Energy efficient housing design concept, factors which require energy efficient housing design, factors affecting energy efficient housing design: physical environmental factors (climate, natural light), design parameters related with the building and determination of appropriate values of them (optical and thermos-physical properties of building envelope, window properties, light reflectivity of internal and external surfaces, distance between buildings, building orientation and form, natural ventilation system and solar control), passive and active systems, contemporary approaches in the energy efficient housing design.

MIM 356E Photography

ECTS 4 (3+0)

Photography within the historical context, use of photography, contextual differences, point of view, contemporary photographic techniques and technologies, digital darkroom processing, practical and experimental studies.

MIM 415E Housing Design Philosophy of Contemporary Architects

ECTS 4 (3+0)

Examination of various housing typologies by means of analysing housing projects of different architects; studying the housing design approaches of the contemporary architects who have been able to synthesize the architectural inheritance in housing; the discussion and interpretation of the house form regarding the unique formal properties, façade compositions, design shapes, textures and building materials chosen; examples from Botta, Wright, Corbusier, Ando, Gehry, UN Studio, New York Five and so forth.

MIM 425E Architecture Today

ECTS 4 (3+0)

Overview of the Intellectual Environment in Architecture. The Architect and his/her Professional Environment. Modernism and Post-Modernism in Social Theory. Modernism and Post-Modernism in Architectural Theory. Contemporary Paradigms and Approaches and Their Effects on Architectural Discipline: Sustainability, Ecology, Social Architecture, Architecture and Media, New Technologies and Architecture, Representation and Identity in Architecture. Architecture of Different Geographies: the Architecture of the States, Europe, Africa, Far East and Middle East. Architectural Competitions. The State of the Architectural Domain in Turkey.

MIM 427E Restoration of Cultural Property **ECTS 4 (3+0)**

Definition and content of cultural property; presentation of international organizations and texts concerning the restoration and preservation of cultural property; UNESCO World Heritage List and World Heritage in Danger List; presentation of different techniques and approaches by exposing the restoration of some important monuments and by visiting two restoration sites in Istanbul; information on problems of architectural conservation.

MIM 429E Topographical Practices: Architecture, Art and the City **ECTS 4 (3+0)**

The relationships between art, architecture, and the city, spatial practices; Mapping, film-making, writing as topographical practices; Place, site and site-specificity, delineating a place; The production of public space by architectural and art practices; Criticising the roles of the architect and artist through gender issues; Performance , documentation, representation in art and architecture; Contemporary projects in architecture, art and urbanism in Istanbul and the world.

MIM 435E Modern Concepts of Architectural Conservation **ECTS 4 (3+0)**

Ethics of architectural conservation. Discussion on the concepts of conservation and restoration. Authenticity in architectural conservation, changing criteria, historic authenticity. Rehabilitation of old building and urban historic sites. Design principles in conservation areas. Control of redevelopment in architectural scale. Case studies of re-used buildings. Surveying historic buildings, conservation and consolidation. Conservation science in the service of architectural conservation.

MIM 437E Analyses and Critics on Contemporary World Architecture **ECTS 4 (3+0)**

Louis I. Kahn and the 'Monumentalization' of Modern Architecture in the late '50s; Robert Venturi and the Post-Modern Architecture in the U.S.A. in the '60s, '70s and its evolution in the '80s; Aldo Rossi and the Italian "Tendenza" movement; Globalism and Localism; Trend, Fashion and Architecture: Bruce Mau and Rem Koolhaas; Architecture in the Age of Globalization, Frank Gehry, Peter Eisenman and Zaha Hadid; Critical Regionalism: experiences in Europe, Asia and America and Carlo Scarpa in north Italy as case-study; Hi-tech, new languages and Utopia in architecture: Reyner Banham, Archigram and the tendencies after the 60s; Renzo Piano, Sir Norman Foster and the tendencies at the turn of the century; Architecture of the new millennium in the world cities; Green architecture, Sustainability and new directions in contemporary world architecture practice.

MIM 440E Generating Liveable Environments **ECTS 4 (3+0)**

A discussion of theoretical approaches and opinions on human-culture and environment relations. Discussion of theories and researches on Environmental Psychology related to the field of Architecture. Developments on generating liveable environments and their effects on principles of Architectural/Environmental Design. Impacts of buildings and cities on the environment. Environmental problems and environmental stress. Principles of creating defensible space.

MIM 461E Environmental Design for the Disabled and Elderly **ECTS 4 (3+0)**

Basic knowledge on disability and elderly people; social, psychological and demographic situation; the kinds of disability, accessories, equipment and building elements for the disabled and elderly; building and home design for the disabled and elderly; contemporary standards; new standards and design criteria of the urban environment for the disabled and elderly.

MIM 465E Building Sub-Structure and Ground **ECTS 4 (3+0)**

Terminology, concepts, relationship between ground and building. Site survey, ground investigation and improvement, soil types. Setting out of building, excavation and machines for excavation, temporary supports for trench walls. Building components in contact with ground: foundations, foundation and basement walls and ground and basement floors. Building movement in ground. Damp proofing, water proofing and thermal insulation in floors on ground, and

basement floors and walls.

MIM 471E Earthquake Resistant Building Design

ECTS 4 (3+0)

Earthquake engineering terminology. Design earthquakes. Earthquake resistant design philosophy. Choice of forms and materials. Effect of soil properties. Reinforced concrete buildings. Precast concrete buildings. Steel buildings. Masonry buildings. Timber buildings. Related codes and standards. Special topics in earthquake engineering.

MIM 494E Special Topics of Construction Project Management

ECTS 4 (3+0)

The course covers the following topics: scope of the construction project management; sustainability in the construction project management; fundamentals of resource management in construction project management; fundamentals of human resources management in construction project management; construction contracts and fundamentals of contract administration in construction projects; dispute areas in construction projects and fundamentals of dispute management; fundamentals of subcontracting and supply chain management; fundamentals of facilities management.

MIM 370E Internal Sub-Division Systems

ECTS 4 (3+0)

Objectives, scope of the course and related definitions. Internal sub-divisions in building: division and separation walls, floors and ceilings. Performance analysis of these elements: environmental factors, performance requirements determined with regard to their basic functions, and their performance in place. Physical analysis of division and separation walls, floors, and ceilings. Forming, dimensioning, jointing and integration of these elements. Studio work: design and/or evaluation of alternative solutions, selection, and detailing.

MIM 432E Entrepreneurship in Construction Industry

ECTS 4 (3+0)

Description of concepts related with entrepreneurship and entrepreneur; entrepreneurial thinking; characteristics of entrepreneurs; fundamentals of human resources management from entrepreneurship perspective; analysis of human resources management in the construction industry with respect to the entrepreneurship; fundamentals of financial topics from entrepreneurship perspective; analysis of financial topics in the construction industry from entrepreneurship perspective; fundamentals of marketing and sales topics from entrepreneurship perspective; analysis of marketing and sales in the construction industry from entrepreneurship perspective; adaptation to changes and new trends (e-business, changes in the business environment; internet related technologies, customer expectations, live standards, sustainability); effects of new trends and changes to the construction industry.

APPENDIX 3 – The Grading System of ITU

Grade	Grade Points
AA	4.0
BA	3.5
BB	3.0
CB	2.5
CC	2.0
DC	1.5
DD	1.0
FF	Failure
VF	Failure for non-attendance
BL	Successful in Pass-Fail courses
BZ	Unsuccessful in Pass-Fail courses

APPENDIX 4 – The Grading System of IUS

Grading scheme and grade distribution guidance	<i>Grading Scale</i>	<i>International Letter Grade</i>	<i>Grade Point Value</i>	<i>Letter Grade in B&H</i>	<i>Numerical Grade in B&H</i>
	0 - 44	F	0	F	5
	45 - 54	E	1		
	55 - 64	C	2	E	6
	65 - 69	C+	2.3	D	7
	70 - 74	B-	2.7		
	75 - 79	B	3	C	8
	80 - 84	B+	3.3		
	85 - 94	A-	3.7	B	9
	95 - 100	A	4	A	10

(2) Student's final achievements shown in column *Letter Grade in B&H* as above are graded in line with the following criteria:

- g) 10 (A) – exceptional achievement, without errors, or with minimal errors, 95 – 100 points;
- h) 9 (B) – above average achievement, with a few errors, 85 – 94 points;
- i) 8 (C) – average achievement, with noticeable errors, 75 – 84 points;
- j) 7 (D) – generally good achievement, with significant imperfections, 65 – 74 points;
- k) 6 (E) – meets minimal criteria for achievement, 55 – 64 points;
- l) 5 (F, FX) – does not meet minimal criteria, less than 55 points.

(4) Letter marks which are not affecting student's CGPA:

- e) **"IP"** – **In progress** is assigned for recording unfulfilled student obligations related to thesis preparation.
- f) **"S"** – **Satisfactory** is assigned to student who passed the examinations that are not numerically graded, or whose written assignment has been accepted.
- g) **"U"** – **Unsatisfactory** is assigned to student who failed to pass the examinations that are not numerically graded.
- h) **"W"** – **Withdrawal** signifies that student has withdrawn from the relevant course.

Additional letter mark that affects student's CGPA is **"N/A"** – **Not attending** and it is assigned to student who is suspended from the course or who does not meet minimal requirement for attendance on lectures or tutorials.