



ASIIN Certification Report

Associate Degrees
Construction Technology
Mapping and Cadastral Survey

Provided by
Eastern Mediterranean University

Table of Content

A About the Certification Process	3
B Characteristics of the Programmes	4
C Peer Report for the ASIIN Certificate	11
1. Formal Information	11
2. Courses/Modules: Content, Policy and Implementation	12
3. Examination: System, Policy and Forms	18
4. Supporting Processes I: Teaching, Methodology and Support	19
5. Supporting Processes II: Resources.....	21
6. Quality Management: Development and Enhancement	22
7. Documentation & Transparency	23
D Additional Documents	25
E Comment of the Provider	26
F Summary: Peer recommendations.....	27
G Decision of the Certification Committee (12.03.2021).....	29
H Fulfilment of Requirements (04.03.2022).....	31
Analysis by the Peer Panel (25.02.2022).....	31
Decision of the Certification Commission (04.03.2022)	32

A About the Certification Process

Title of the Programme	Previous certification
Associate Degree Construction Technology	2015-2020
Associate Degree Mapping and Cadastral Survey	2015-2020
<p>Date of the contract: 17 July 2020</p> <p>Submission of the final version of the self-assessment report: 19. October 2020</p> <p>Date of the onsite visit: 7-14 December 2020</p> <p>Due to covid-19 restrictions an online video conference was held on</p>	
<p>Peer panel:</p> <p>Prof. Dr. Wolfgang Huep, University of Applied Sciences Stuttgart; Maike Laurenz (Student), University of Applied Sciences Bochum; Prof. Dr. Günter Meschke, Ruhr University Bochum; Dipl.-Ing. Christoph Schröder, German Chamber of Engineers</p>	
<p>Representative of the ASIIN headquarter Dr. Michael Meyer</p>	
<p>Responsible decision-making committee: Certification committee</p>	
<p>Criteria used:</p> <p>Standards for the Certification of (Further) Education and Training for courses and modules related to Computer Sciences, Technology, Natural Sciences and Business Economics as of 27.07.11.</p> <p>European Standards and Guidelines as of 15.05.2015.</p>	

B Characteristics of the Programmes

a) Name of the programme	b) Degree awarded upon conclusion	c) Corresponding level of the European Qualifications Framework	d) Mode of Study	e) Duration & Credit Points	f) First time of offer & Intake rhythm	g) Number of students per intake	h) Fees
Associate Degree Construction Technology	Associate Degree	Level 5	Full time	4 Semester 120 ECTS	Fall 2001/02	15 per year	Round 15.000 TL per year
Associate Degree Mapping and Cadastral Survey	Harita ve Kadaströ	Level 5	Full time	4 Semester 120 ECTS	Fall 2009/10	15 per year	Round 15.000 TL per year

For the Associate Degree Construction Technology the self-assessment report states the following **intended learning outcomes**:

The aim of the Construction Technology programme is to equip students with a strong foundation needed for practical applications in Construction Technology. The programme focuses on satisfying the needs of learners with a balanced education between the theoretical and practical concepts required for each module.

Students will be able to:

- be prepared for profession in the Construction field as it applies to construction site applications, static and architectural plan drawing, topographic survey applications, and construction materials' knowledge.
- develop skills for effective verbal and written communication, and for participating effectively in the execution projects, and to foster professional attitudes and awareness of the benefits of life-long learning.
- provide a learning environment that is based on open interaction with experienced staff and a curriculum that follows the developments in Construction field with practical knowledge compatible with business requirements.

All modules of the programme are designed to achieve the programme objectives and learning outcomes. The learning outcomes of the programme are listed below:

B Characteristics of the Programmes

- Graduates have up to date theoretical and practical knowledge in the construction field, sufficient foundation in basic Sciences and Building Technologies and will use this information
- Graduates have up to date practical and theoretical knowledge in the materials used in construction area
- Graduates have technical knowledge of the main areas in construction technology
- Graduates have the knowledge and skills to apply civil engineering and architectural projects on the construction site
- Graduates have the ability to draw the architectural and civil engineering projects by using the computer program.
- Graduates have ability to make a land survey by using topographic instruments
- Graduates can apply appropriate precautions to ensure occupational health and safety at the construction site
- Graduates can work effectively both in teams and individually
- Graduates can apply acquired skills, follow the latest developments in the construction technology field and learn new skills by engaging in lifelong learning
- Graduates have improved skills in oral and written communication in the CT field
- Graduates have sufficient command of profession-related English in oral and written communication
- Graduates are aware of the importance of professional ethics in the CT field and adopt it in all their activities
- Graduates can identify problems and apply basic problem solving skills

Graduates may find employment in:

- Construction office (drawing projects)
- Construction site
- Road construction and parcellation work
- Laboratory related with Construction field
- Concrete plants

B Characteristics of the Programmes

The following **curriculum/teaching design** is presented:

First Year Fall Semester (18 EMU Credits, 30 ECTS) / Birinci Yıl Güz Dönemi (18 DAU Kredi, 30 AKTS)						
Course Code / Ders Kodu	Ref. Code / Ref. Kodu	Course Name / Ders Adı	Credit / Kredi	ECTS / AKTS	Category / Kategori	Prerequ / Ön
ENGL161	34711	Basic English – I / Temel İngilizce - I	(3,1,0) 3	4	UC	-
HKAD107	34712	Map Trigonometri / Harita Trigonometrisi	(3,0,1) 3	6	AC	-
BDTE111	34713	Basic Technical Drawing/ Temel Teknik Çizim	(2,2,0) 3	6	AC	-
ITEK113	34714	Construction Materials/ Yapı Malzemeleri	(2,2,0) 3	6	AC	-
BDTC115	34715	Basic Office Applications / Temel Ofis Uygulamaları	(2,2,0) 3	4	UC	-
ITEK117	34716	Vocational Orientation / Mesleki Yönlendirme	(2,2,0) 3	4	AC	-

First Year Spring Semester (18 EMU Credits, 30 ECTS) / Birinci Yıl Bahar Dönemi (18 DAU Kredi, 30 AKTS)						
Course Code / Ders Kodu	Ref. Code / Ref. Kodu	Course Name / Ders Adı	Credit / Kredi	ECTS / AKTS	Category / Kategori	Prerequ / Ön
ENGL162	34721	Basic English – II / Temel İngilizce - II	(3,1,0) 3	4	UC	ENGL161
ITEK120	34722	Computer Application for Con- struction/ İnşaat Bilgisayar Uygulamaları	(2,2,0) 3	5	UC	-
ITEK122	34723	Topography - I/ Topografya - I	(2,2,0) 3	6	AC	-
ITEK124	34724	Construction Technology - I / Yapı Tekniği - I	(2,2,0) 3	5	AC	-
BDTE126	34725	Engineering Drawing - I/ Mühendislik Çizimi - I	(2,2,0) 3	5	AC	-
BDTE128	34726	Computer Aided Drawing (CAD) - I / Bilgisayar Destekli Çizim - I	(2,2,0) 3	5	UC	-

First Year (0 EMU Credits, 5 ECTS) Birinci Yıl (0 Kredi, 5 AKTS)						
Course Code / Ders Kodu	Ref. Code / Ref. Kodu	Course Name / Ders Adı	Credit / Kredi	ECTS / AKTS	Category / Kategori	Prerequ / Ön
ITEK200	34737	Summet Training / Yaz Stajı	(0,0,0) 0	5	AC	-

SOPHOMORE YEAR / İKİNCİ YIL

Second Year Fall Semester (18 EMU Credits, 25 ECTS) / İkinci Yıl Güz Dönemi (18 DAU Kredi, 25 AKTS)						
Course Code / Ders Kodu	Ref. Code / Ref. Kodu	Course Name / Ders Adı	Credit / Kredi	ECTS / AKTS	Category / Kategori	Prerequisite / Önkoşul
AE01	34731	Area Elective - I/ Alan seçmeli -I	(2,2,0) 3	4	AE	-
BDTE211	34732	Computer Aided Drawing (CAD) - II / Bilgisayar Destekli Çizim - II	(2,2,0) 3	4	AC	-
ITEK213	34733	Topography - II / Topografya - II	(2,2,0) 3	5	AC	-
ITEK215	34734	Construction Technology - II / Yapı Tekniği - II	(2,2,0) 3	4	AC	-
BDTE217	34735	Engineering Drawing - II / Mühendislik Çizimi - II	(2,2,0) 3	4	AC	-
BDTE219	34736	Architectural Detail Drawing / Mimari Çizim detayları	(2,2,0) 3	4	AC	-

Second Year Spring Semester (20 EMU Credits, 31 ECTS) / İkinci Yıl Bahar Dönemi (20 DAU Kredi, 30 AKTS)						
Course Code / Ders Kodu	Ref. Code / Ref. Kodu	Course Name / Ders Adı	Credit / Kredi	ECTS / AKTS	Category / Kategori	Prerequisite / Önkoşul
AE02	34741	Area Elective - II/ Alan seçmeli -II	(2,2,0) 3	4	AE	-
ITEK220	34742	Computing of Static and Structures / Statik ve Yapı Hesapları	(2,2,0) 3	5	AC	-
ITEK222	34743	Concrete Technology / Beton Teknolojisi	(2,2,0) 3	5	AC	-
ITEK224	34744	Quantities / Metraj	(2,2,0) 3	5	AC	-
ITEK226	34745	Construction Side Techniques / Şantiye Tekniği	(2,2,0) 3	4	AC	-
BDTE228	34746	Fundamentals and Regulation of Statics and Arch. Projects / Mimari ve Statik Proje Çizim Esasları	(2,2,0) 3	5	AC	-
HIST280	34747	Atatürk's Principles and History of Turkish Reforms / Atatürk İlkeleri ve İnkılap Tarihi	(2,0,0) 2	2	UC	-

For the Associate Degree Mapping and Cadastral Survey the self-assessment report states the following **intended learning outcomes**:

The aim of the Mapping and Cadastral Survey programme is to equip students with a strong foundation needed for practical applications in Mapping and Cadastral Survey (MCS) field. The programme focuses on satisfying the needs of learners with a balanced education between the theoretical and practical concepts required for each module. The educational

objectives of the Construction Technology mainly focus on the students and can be listed as below:

- be prepared for profession in Surveying field as it applies to dams, building, land, roads, irrigation, which constitutes the major infrastructure projects such as the maps and plans and implementation work is to train manpower between practitioners working with engineers to work personally.
- develop skills for effective verbal and written communication, and for participating effectively in the execution projects, and to foster professional attitudes and awareness of the benefits of life-long learning.

The aim of the university is to provide a learning environment that is based on open interaction with experienced staff and a curriculum that follows the developments in mapping and cadastral survey field with practical knowledge compatible with business requirements.

The learning outcomes of the programme are listed below:

- Graduates have the fundamental theoretical and practical knowledge in mathematics useful in mapping and cadastral field
- Graduates have abilities to make analysis of key issues, and analytical thinking skills will have the ability to provide solutions to practical problems of mapping subjects
- Graduates have the ability to use simple and modern surveying (measuring) instruments
- Graduates gain the ability to field measurements
- Graduates have the ability to use field measurement to make maps
- Graduates have the ability to draw maps using relevant computer programs
- Graduates have knowledge of drawing maps with photogrammetric and remote sensing methods
- Graduates can work effectively both in teams and individually
- Graduates can follow the latest developments in the mapping and cadastral survey field with the awareness that lifelong learning is essential
- Graduates has improved skills in oral and written communication in the field of mapping of cadastral survey (in parallel with the objectives, students are assigned homeworks, project work, prepare reports and make powerpoint presentations in some courses)
- Graduates have basic English knowledge in oral and written communication
- Graduates are aware of the importance of use of professional ethics in the mapping and cadastral field

Graduates of A.D.M.C.S. programme may be employed in the following fields:

- Mapping office
- Cadastral office
- Construction office
- Land Registry and Cadastre Offices
- Infrastructure Office

The following **curriculum/teaching design** is presented:

**FRESHMAN
YEAR /
BİRİNCİ YIL**

First Year Fall Semester (18 EMU Credits, 30ECTS) / Birinci Yıl Güz Dönemi (18 DAU Kredi, 30 AKTS)						
Course Code / Ders Kodu	Ref. Code / Ref. Kodu	Course Name / Ders Adı	Credit / Kredi	ECTS / AKTS	Category / Kategori	Prerequ / Ön
HKAD101	3R711	Map Applications / Harita Uygulamaları	(3,0,1) 3	5	AC	-
HKAD103	3R712	Topography - I / Topoğrafya - I	(2,2,0) 3	6	AC	-
HKAD107	3R713	Map Trigonometry / Harita Trigonometrisi	(3,0,1) 3	6	AC	-
HKAD109	3R714	Map Information / Harita Bilgisi	(3,0,1) 3	5	AC	-
BTEP105	3R715	Basic Office Applications / Temel Ofis Uygulamaları	(2,2,0) 3	4	UC	-
ENGL161	3R716	Basic English – I / Temel İngilizce - I	(3,1,0) 3	4	UC	-

First Year Spring Semester (18 EMU Credits, 28 ECTS) / Birinci Yıl Bahar Dönemi (20 DAU Kredi, 30 AKTS)						
Course Code / Ders Kodu	Ref. Code / Ref. Kodu	Course Name / Ders Adı	Credit / Kredi	ECTS / AKTS	Category / Kategori	Prerequ / Ön
HKAD102	3R721	Map Drawing - I / Harita Çizimi - I	(3,0,1) 3	5	AC	-
HKAD104	3R722	Topography - II / Topoğrafya - II	(2,0,2) 3	5	AC	HKAD101
HKAD106	3R723	Professional Ethics / Meslek Etiği	(3,0,1) 3	4	AC	-
HKAD108	3R724	Mapping and Cadastral Survey Law / Harita Kadastro Hukuku	(3,0,1) 3	5	AC	-
HKAD110	3R725	Cartography - I / Kartoğrafya - I	(2,0,2) 3	5	AC	-

B Characteristics of the Programmes

ENGL162	3R726	Basic English – II / Temel İngilizce - II	(3,1,0) 3	4	UC	ENGL
HIST280	3R727	Atatürk's Principles and History of Turkish Reforms/ Atatürk İlkeleri ve İnkılab Tarihi	(2,0,0)2	2	UC	

First Year Spring Semester (0 EMU Credits, 5 ECTS) / Birinci Yıl Bahar Dönemi (0 DAU Kredi, 5 AKTS)

Course Code / Ders Kodu	Ref. Code / Ref. Kodu	Course Name / Ders Adı	Credit / Kredi	ECTS / AKTS	Category / Kategori	Prerequisite / Önk
HKAD200	3R730	Summet Training / Yaz Stajı	(0,0,0) 0	5	AC	-

SOPHOMORE YEAR / İKİNCİ YIL**Second Year Fall Semester (27 EMU Credits, 27 ECTS) / İkinci Yıl Güz Dönemi (27 DAU Kredi, 27 AKTS)**

Course Code / Ders Kodu	Ref. Code / Ref. Kodu	Course Name / Ders Adı	Credit / Kredi	ECTS / AKTS	Category / Kategori	Prerequisite / Önk
HKAD201	3R731	Cadastral Survey - I / Kadastro - I	(2,0,2) 3	3	AC	-
HKAD203	3R732	Map Drawing - II / Harita Çizimi - II	(2,2,0) 3	3	AC	HKAD201
HKAD205	3R733	Topography - III / Topoğrafya - III	(2,2,0) 3	3	AC	HKAD203
HKAD207	3R734	Application / Aplikasyon	(2,0,2) 3	3	AC	-
HKAD209	3R735	Photogrammetry / Fotogrametri	(2,2,0) 3	3	AC	-
HKAD211	3R736	Land Management / Arazi Yönetimi	(3,0,1) 3	3	AC	-
HKAD213	3R737	Professional Terminology / Mesleki Terminoloji	(3,0,1) 3	3	AC	-
HKAD215	3R738	Quality Assurance and Standarts / Kalite Güvence ve Standartlar	(3,0,1) 3	3	AC	-
HKAD217	3R739	Geographic Information Systems / Coğrafi Bilgi Sistemleri	(3,0,1) 3	3	AC	-

Second Year Spring Semester (12 EMU Credits, 28 ECTS) / İkinci Yıl Bahar Dönemi (12 DAU Kredi, 28 AKTS)

Course Code / Ders Kodu	Ref. Code / Ref. Kodu	Course Name / Ders Adı	Credit / Kredi	ECTS / AKTS	Category / Kategori	Prerequisite / Önk
HKAD202	3R741	Cadastral Survey - II / Kadastro - II	(2,0,2) 3	8	AC	HKAD201
HKAD204	3R742	Cartography - II / Kartoğrafya - II	(2,0,2) 3	7	AC	HKAD201
HKAD206	3R743	Topography - IV / Topoğrafya - IV	(2,0,2) 3	7	AC	HKAD203
HKAD208	3R744	Graduation Project / Mezuniyet Projesi	(2,0,3) 3	6	AC	-

C Peer Report for the ASIIN Certificate

1. Formal Information

Criterion 1.1 Formal Information

Evidence:

- Self-Assessment Report
- Programme websites:
 - <https://www.emu.edu.tr/en/programs/constructiontechnology-associate-program-turkish/787>
 - <http://sct.emu.edu.tr/hkad>
- Study rules and regulations:
 - <http://mevzuat.emu.edu.tr/Content-en.htm>

Preliminary assessment and analysis of the peers:

The peer panel received all required formal information through the self-assessment report as well as through the programmes' English language websites. This information included the programme names, degrees, modes and duration of study, enrolment schedules and places as well as fees for both the Associate Degree and the Higher Diploma programme. All information was transparent and adequate to the task. Both programmes are taught in Turkish language.

Both programmes are set within the context of a regular university and the rights and duties of students as well as those of the university correspond to those of higher level programmes. Consequently, all necessary information is provided in the rules and regulations administering the student life cycle.

Final assessment of the peers after the comment of the Provider regarding criterion 1:

As the university does not comment the report the peers confirm their preliminary assessment.

2. Courses/Modules: Content, Policy and Implementation

Criterion 2.1 Learning outcomes of the course/module

Evidence:

- Self-Assessment Report
- Appendix C1 and C2: Module Descriptions (Summaries are also available on the programme websites)
- Virtual discussions

Preliminary assessment and analysis of the peers:

The panel members confirmed that the objectives and intended learning outcomes of the two programmes have been clearly defined in the self assessment report. The peers comprehended that the two programmes aim at qualifications corresponding to the descriptors of level five of the European Qualification Framework (EQF). They thoroughly analysed the intended learning outcomes of the programmes and compared them with the descriptors of the EQF level 5. The peers noticed that learning outcomes and short module descriptions are also publicly available on the respective programme websites in Turkish as well as English language

The learning outcomes for the Associate degree in Construction Technology programme state that graduates shall have up to date fundamental theoretical and practical knowledge in the construction area and practical and theoretical knowledge in the materials used in construction areas. As in the last accreditation the peers pointed out that the aspired knowledge of building materials should also include fundamental sustainability aspects. From their point of view, it is necessary for technicians to know about these modern aspects of construction.

The peers learned that most graduates from the civil engineering programme working in the drawing departments of engineering offices which correspond to the focus of the study aims on drawing abilities. Graduates shall be able to draw architectural and civil engineering projects by using computer programmes. They appreciate that the study aims nevertheless consider also the technical aspects of construction field.

Additionally, graduates shall be able to identify problems and apply basic problem solving skill; the peers acknowledged that this implies the competence to cope with unpredictable change as required for level 5 EQF programmes. The graduates shall also obtain social skills through team work, basic written and spoken English competences and be aware of the importance of use of professional ethics.

Regarding the Associate degree in Mapping and Cadastral Survey programme the panel members could see that comprehensive, specialised, factual and theoretical knowledge shall be obtained through fundamental theoretical and practical knowledge in mathematics useful in mapping and the cadastral field. Graduates shall have the ability to use simple and modern surveying (measuring) instruments and have knowledge of drawing maps with photogrammetric and remote sensing methods. In addition, the graduates can follow the latest developments in the mapping and cadastral survey field with the awareness that lifelong learning is essential. Graduates shall have abilities to make analysis of key issues, and analytical thinking skills that enable them to provide solutions to practical problems of mapping subjects. The panel members comprehend that cognitive and practical skills shall be developed and that problem solving skills are part of the envisaged qualification profile. Graduates should be able to work effectively in teams, develop skills for effective verbal and written communication, and participate effectively in the execution of projects. The peers confirmed that this implies the management and supervision in contexts of work and leads to the competence to review and develop performance of self and others.

The panel members confirmed that the programme objectives and intended learning outcomes of both programmes, except of the mentioned aspects of sustainability in the construction fields, meet level 5 of the European Qualification Framework for lifelong learning.

Criterion 2.2 Contents

Evidence:

- module descriptions
- study plans
- Diploma Supplements

Preliminary assessment and analysis of the peers:

Generally, the experts refer to the concept of the programmes under review as long-standing and well-established courses with a decidedly practice-oriented approach fitting the expectations of the market towards technicians in the field.

The peers learned that general conditions are increasingly difficult for the programmes offered by EMU. On the one hand the duration of bachelor degree programmes with better job expectations is only longer for one year. On the other side graduates of vocational high schools also are allowed to work as technicians in the construction and mapping field. Therefore, it is a challenge for EMU to get well qualified applicants for its programmes. The university is thinking to offer the programmes in English language as well as until 2001 to

become more attractive for more potential students. The peers would see good preconditions for this as EMU has much experience with international students from more than 120 countries in its bachelor and master programmes.

Regarding practical experiences of the students most modules incorporate lab applications which cover practices in the construction area or mapping field. Additionally, students are required to participate in a summer training session, which entails a placement in a company for a duration of 40 working days. The industry provides feedback on the student's knowledge and practical performance to the department. The students have to find their own summer training places. At the completion of summer training, each student returns a sealed training log book where a supervisor evaluates the performance of the student on the work assigned within the company. The supervisor also provides feedback on the technical knowledge, practical ability and professional behaviour of the student. Another approach utilized for gathering feedback from the industry is to use the employer survey. Additionally, the programmes organise meetings with officials from leading construction companies in Northern Cyprus in order to identify the state of this changing field. The programmes are revised and enhanced in the light of this feedback.

From the view of the peers the laboratory practice and 40 days of practical work in companies are not sufficient for an adequate preparation for the labor market. They learned that it depends on the company the summer school is completed whether students have seen construction areas or survey fields during their studies or not which seems to be essential to prepare students for the job. Therefore, the peers found it necessary to ensure, that students get more opportunities for practical experiences for example during onsite visits of construction areas.

The curriculum of the Mapping and Cadastral Survey programme includes bright fundamental aspects about Topography, Cartography, Topography, Geo-Information Systems, Cadastral Survey, Photogrammetry and Map application and drawing. These technical aspects are supplemented by modules about office applications and professional ethics combined with two English language modules. The programme is finished by an graduation project.

Besides the mentioned lack of practical experiences, the curriculum fits the intended study aims very well.

The professional and theoretical knowledge required for the degree aimed at is handled adequate. The module "Professional Ethics" makes the students reflect about their profession and creates an awareness of the boundaries of the professional knowledge. Problem solving competences are included in a number of modules like "Topography II" where in-

struments and techniques are used in making horizontal, vertical, and angular measurements, and the application in the practical field and to solve mapping problems. In the module “Map Trigonometry” students shall obtain competences in the basic equations in the triangle, triangle solutions, quadrilateral shapes, trapezoid solutions, circle solutions, spherical triangles concept global triangle solutions.

Specific programme related practical skills shall be developed in the module “Cadastral Survey I and II” where students do the technical cadastre, renovation and special cadastral operations. In addition, students have to implement a “Graduation Project” where they are required to form teams and propose a real life project to the graduation project committee which may be accepted as graduation project. Each team has to explore the needs and requirements of their project. This “Graduation Project” also helps to develop management and team work competences as the panel members acknowledged.

In summary, the panel members concluded that the curriculum is designed in a way to reach the intended learning outcomes.

For the Construction Technology programme, the fundamental technical knowledge can be obtained in modules like Statics, Construction Technology, Map Trigonometry, Topography, Concrete Technology and Construction Materials. The focus on drawing competences of the students is implemented in modules about Basic Technical Drawing, Architectural Detail Drawing, Computer Aided Drawing I and II as well as Engineering Drawing I and II. These technical aspects are supplemented by modules about office applications and vocational orientation combined with two English language modules.

As indicated under criterion 2.1, the peers underlined that the students have to get a better overview about aspects of sustainability. The programme coordinators mentioned that it is planned to involve recycling materials into the curriculum but admit that there are no sustainability aspects included yet.

As far as cognitive and practical skills are concerned which enable the students to develop creative solutions to abstract problems, the panel members understood that the modules “Computer Aided Drawing II”, “Computer Application for Construction” as well as “Engineering Drawing” and the summer training are modules where problem solving competences shall be developed. Mathematical fundamentals are taught within the statics and trigonometry.

The students do not learn how to program computer applications but the panel members indicated that this competence is not coercively relevant for this level of qualification. But regarding to the aspired drawing competences of the students the peers recommend to give them a brighter overview about relevant drawing software.

The peers miss a graduation project like in the mapping and cadastral survey programme. From their opinion it is essential that students prove at the end of the programme that they reached not only the aims for the single modules but the study aims in total. Therefore, they ask the university to implement a graduation project in this programme as well.

The peers are astonished about the comparatively poor English language skills of the students during their discussion although there are two language modules involved in both programmes. They recommend to implement additional opportunities for students to increase their English language skills.

They also mentioned that the information of the module descriptions is not sufficient for students. In several modules contents and learning outcomes are just copied out of other descriptions or contents and objectives specified comprehensible by the programme coordinators during the onsite visit are not described. Therefore, EMU has to ensure that the module descriptions are substantially revised. In the revision focus has to be in detail on the actual objectives and contents of the individual courses.

Criterion 2.3 Structure

Evidence:

- Study plans
- Module Descriptions
- Virtual discussions

Preliminary assessment and analysis of the peers:

The peers considered the structure of the programme(s) to be suitable and the offered modules as adequate units of teaching and learning. Besides mandatory modules, a list of area electives are also provided on a regular basis from which the students can choose three during the second study year. Especially in the electives section new and modern topics are regularly introduced and also offered in close cooperation with local industry partners.

The peers could follow the argumentation of the programme coordinators that there are only two elective courses included in both programmes as in a two year programme is not too much time to handle even the core aspects.

Criterion 2.4 Workload

Evidence:

- Self-Assessment Report

- Appendix H: Module Descriptions (Summaries are also available on the programme websites)
- Virtual discussions

Preliminary assessment and analysis of the peers:

The programmes indicate workload using EMU credits as well as ECTS credits. One ECTS credit is defined at 30 students working hours while each semester consists of an average of 30 ECTS. All elements of the curricula, including the two internships are credited. The suitability of the workload is surveyed on a regular basis through the course survey that is performed each semester in every course. If deviations from the expected workload are detected over a longer period, either the content or the number of credits are adapted. The students confirm in the discussion with the peers a realistic calculation of the workload.

Criterion 2.5 Admission requirements

Evidence:

- Admission regulations and requirements as published on the University website :
- Official regulations for entrance exams and student admission :
- Virtual discussions

Preliminary assessment and analysis of the peers:

Admission requirements to the associate degree programmes are based on national regulations for access to higher education, namely allowing all national graduates of vocational or regular high schools. Depending on the results of a central, national entrance exam, students might be exempt from the need for pre-registration. Requirements for applicants from Turkey or other countries equally are based on the completion of high school level studies. International students may also be admitted to the program upon successful completion of Turkish preparatory school or proof of Turkish language proficiency. All regulations are published on the University website and were found by the peers to be transparent and suitable.

Criterion 2.6 Prospects of the labour market and practical orientation

Evidence:

- Self-Assessment Report
- Alumni Survey
- Employer Survey
- Statistical Data

- Virtual discussions

Preliminary assessment and analysis of the peers:

EMU applies an employer survey regularly which collects feedback data from partners from industry. This information is being used for revision and enhancement of the curricula of the programmes. Additionally, students have to carry out a work placement in companies; the partner enterprises are requested to provide feedback on the qualification and performance of the students which is an additional source of information to critically review the envisaged qualification profile of the programmes under review.

The peers appreciate the close connection of the university to the labor market by including relevant stakeholders adequately in the process of programme revision. For the panel this close connection effects the obviously good job opportunities of the students. The statistical data show an adequate demand for graduates of both programmes. More than 80% of the graduates find jobs within three months after finish the programmes.

During the discussion with the peers the representatives of the labor market mentioned the importance of social and personal competences of the graduates beside the field specific knowledge as well as English language skills. This assessment of the representatives of the labor market confirms for the peers the recommendation to increase the language skills of the students.

Final assessment of the peers after the comment of the Provider regarding criterion 2:

As the university does not comment the report the peers confirm their preliminary assessment.

3. Examination: System, Policy and Forms

Criterion 3 Exams: System, policy and forms
--

Evidence:

- Self-Assessment Report
- Module Handbooks
- Regulation for Examinations and Evaluation
- Virtual discussions
- Review of exemplary exams

Preliminary assessment and analysis of the peers:

The “By Law for Examinations and Assessment”, which is published on the website of EMU, defines in detail the rules which apply to examinations. At the beginning of the term, the course instructor informs the students about the number of examinations to be administered and their weights towards the semester grade, as well as the weights of quizzes and lab/workshop reports. The examinations may be given in written, oral or practical (on-computer) or drawing (on-computer or by hand) forms. For each course, a minimum of one midterm examination and a final examination are held. A student has the right to ask the relevant academic staff member to see all documents involved in the determination of the semester grade.

The panel members confirmed that in general a comparable assessment for all learners is carried out on whether the learning outcomes have been achieved. The panel members learned that oral examinations or presentations could be made after the “Summer Training”, in the English courses and in the “Graduation Project”. In the laboratory courses oral presentations may also be given occasionally. The panel members noticed out of the discussion with the students that oral examinations are more exceptional and mostly written examinations are used. The peers recommend to make a better use of alternative forms of exams like oral exams, presentations etc.

The requirements in the exams correspond to the level five of the European Qualification Framework.

Final assessment of the peers after the comment of the Provider regarding criterion 3:

As the university does not comment the report the peers confirm their preliminary assessment.

4. Supporting Processes I: Teaching, Methodology and Support

Criterion 4.1 Teaching methodology

Evidence:

- Self-Assessment Report
- Module Handbooks
- Virtual discussions

Preliminary assessment and analysis of the peers:

The peers confirmed that the respective methodological approaches are diverse and related to the individual subject and learning outcomes of the courses, in general offering a combination of theoretical as well as practical elements. Through project works and the included internships, the students are animated to apply their acquired skills by themselves at the earliest possible stage.

During the Covid-19 pandemic EMU changed to online teaching formats in late March 2020 and since then is offering a growing variety of support measures to their students. For students living in Cyprus, the teaching staff remains available as a supportive element, since all distance teaching is being performed from the offices at EMU and office and contact hours are taken seriously.

Criterion 4.2 Support and assistance

Evidence:

- Self-Assessment Report
- Alumni Survey Questions and Results

Preliminary assessment and analysis of the peers:

The students in the programmes under review felt very well taken care of. In general, each student is assigned an academic supervisor in the department who supports the student throughout the study process with decisions of the academic life. Furthermore, there is a broad variety of clubs and other student activities. Also, the role of the students' union has been constantly developed during recent years. By now, student representatives are included in all relevant University committees and take part in important decisions.

Related to individual study progress, the peers understood that at EMU students and teaching staff have a close connection. The students appreciated the support they receive from the teaching staff at any time, most lecturers are not only available during office hours but also on their mobile phones.

Final assessment of the peers after the comment of the Provider regarding criterion 4:

As the university does not comment the report the peers confirm their preliminary assessment.

5. Supporting Processes II: Resources

Criterion 5.1 Staff

Evidence:

- Self-Assessment Report
- Staff Handbook
- Instructor and Course Evaluation Survey

Preliminary assessment and analysis of the peers:

In both programmes under review two full time lecturers are mainly responsible. The additional part time lecturers are recruited in general from industry. As most of them are working regular in companies they incorporate their practical industrial experiences into their teaching. Part time lecturers have to pass a kind of assessment center regarding their didactical abilities. The field specific qualifications of the part time lecturers are proved by their projects they deal with at their regular working place.

The quality and the quantity of the teaching staff guarantees from the impression of the peers that the intended learning outcomes of the programmes can be reached at the level aimed at.

In general the lecturers have appropriate teaching skills and field specific competences for the intended qualifications of the students but the peers recognise that there are only limited opportunities for the full time lecturers to further develop constantly their professional and teaching skills. They recommended strongly that EMU support more intensively the further training of the teaching staff.

Criterion 5.2 Institutional setting, funding and equipment

Evidence:

- Self-Assessment Report
- Tuition Fees
- Collaboration Agreements
- Virtual Discussions

Preliminary assessment and analysis of the peers:

The peers note that mainly tuition fees provide the financial basis for the programmes. Consequently, the already mentioned decrease of the overall numbers of applicants and students directly affects the prospects of the programmes. Reduction of formerly considerable state funding of the programmes (Northern Cyprus and Turkish Republic) makes the

situation even worse. Increased efforts of the HEI management and programme coordinators to attract new students for the degree programmes, in particular through scholarships and intensified strategic advertising at vocational and other high schools, are considered reasonable counter-measures, which may prove ultimately successful.

The panel members inspected the relevant classrooms and computer labs which they found to be of adequate condition. Students have access to relevant electronic publications and journals, the auditors concluded that the library was appropriate for the needs of the students of the programmes under review. The laboratories for both programmes are equipped in an adequate way.

Final assessment of the peers after the comment of the Provider regarding criterion 5:

As the university does not comment the report the peers confirm their preliminary assessment.

6. Quality Management: Development and Enhancement

Criterion 6.1 Quality assurance & enhancement
--

Evidence:

- Self-Assessment Report
- Sample Course Assessment Survey
- Instructor and Course Evaluation Survey
- Exit Survey Questions and Results
- Alumni Survey Questions and Results
- Employer Survey Questions and Results
- Virtual Discussions

Preliminary assessment and analysis of the peers:

From the documents presented and the discussions with the different stakeholder groups, the peers learned that the EMU has established a well working internal quality assurance cycle that aims at the continuous reviewing and improvement of all aspects of university life in general, as well as programme-specific.

The quality assurance cycle is primarily based on a variety of surveys performed with the most relevant stakeholder groups (students, teaching staff, graduates, and employers) on

a regular basis. Course evaluation are performed twice each semester, including a questionnaire about the students' achievement of the defined learning objectives. The evaluation results are reported to the quality assurance committee.

Out of the discussions during the onsite visit the peers learned that the results of the teaching evaluations are only discussed with students in case of bad evaluation results. From the view of the peers a regular feedback to the students of all evaluation results must be ensured. From their point of view, a regular feedback is necessary for the motivation of the students to evaluate in a serious way.

Criterion 6.2 Instruments, data and methods

Evidence:

- Self-Assessment Report
- Statistical Data

Preliminary assessment and analysis of the peers:

Apart from the survey-based quality management processes, the EMU collects a variety of data in order to better understand students' progress, difficulties, or room for improvement.

Final assessment of the peers after the comment of the Provider regarding criterion 6:

As the university does not comment the report, the peers confirm their preliminary assessment.

7. Documentation & Transparency

Criterion 7.1 Relevant documents

Evidence:

- Regulations for Education, Examinations and Success
- Regulation for Examinations and Evaluation
- Regulation for Entrance Exams and Student Admission
- Rules for Admission to the Undergraduate Programmes
- Regulation for Entrance Exams and Student Admission

Preliminary assessment and analysis of the peers:

The peers state that the relevant study- and exam-related regulations, provisions and by-laws are legally binding, published and for all stakeholders available on the internet.

Criterion 7.2 Certificate upon conclusion
--

Evidence:

- Sample Leaving Certificates

Preliminary assessment and analysis of the peers:

At the graduation of either of the two degree programmes, students receive a Diploma in Turkish and English language, together with a Transcript of Records, and a Diploma Supplement. These documents provide all required information about the programme's learning objectives, curriculum, and the students' individual performance. The peers only pointed out, the Diploma Supplement is not yet indicating a relative grade of the graduate, positioning his final grade in relation to the average grading of that academic year. The EMU informed the peers that this additional piece of information is currently being prepared and will be included in the Diploma Supplement as soon as possible.

Final assessment of the peers after the comment of the Provider regarding criterion 7:

As the university does not comment the report, the peers confirm their preliminary assessment.

D Additional Documents

There are no additional information needed.

E Comment of the Provider

The institution does not comment on the report.

F Summary: Peer recommendations

The peers summarize their analysis and **final assessment** for the award of the ASIIN certificate as follows:

Degree Programme	ASIIN Certificate	Maximum duration of certification	Alignment to a Qualification Framework Level
Associate Degree in Construction Technology	With requirements for one year	31.12.2027	EQF 5
Associate Degree in Mapping and Cadastral Survey	With requirements for one year	31.12.2027	EQF 5

Requirements

For both programmes

- A 1. (ASIIN 2.2) Ensure that the module descriptions are substantially revised. In the revision focus has to be in detail on the actual objectives and contents of the individual courses.
- A 2. (ASIIN 2.2) Ensure to offer more opportunities for students to get practical experiences for example during onsite visits of construction areas.
- A 3. Ensure to give students a reasonable feedback about the evaluation results.

For AD Construction Technology

- A 4. (ASIIN 2.1) Ensure to offer opportunities for students to get knowledge of fundamental sustainability aspects.
- A 5. (ASIIN 2.2) Ensure to implement a graduation project into the programme.

Recommendations

- E 1. (ASIIN 3) It is recommended to use more alternative forms of exams like oral exams, presentations etc.

- E 2. (ASIIN 2.2) It is recommended to offer more opportunities for students to improve their English language skills.
- E 3. (ASIIN 5) It is recommended to offer more opportunities for teaching staff to further develop constantly their professional and teaching skills.

For AD Construction Technology

- E 4. (ASIIN 2.2) It is recommended to provide students an overview about relevant drawing software.

G Decision of the Certification Committee (12.03.2021)

Assessment and analysis for the award of the ASIIN Certificate:

The Certification Commission (CC) discusses the procedure.

In comparison to the programmes of the other clusters of EMU under consideration as well as with regard to the ASIIN certification criteria, it does not find any justification for requiring the EMU to integrate a graduation project into the *Associate Degree Programme Construction Technology*, as envisaged in a respective requirement by the peers. The Commission admits that a capstone project can be seen as major evidence of the students' ability to translate their theoretical and practical learning into the solution of subject-related and application-oriented assignments in the areas of Engineering or Natural Sciences. Yet in the view of the Commission, other didactical and/or assessment methods could lead to comparable results as well, especially at the level of technicians as in the Associate degree programme under review. The CC therefore decides to change the requirement into a recommendation (see below, recommendation 4).

The CC also discusses the recommendation regarding skills in using relevant drawing software for students of the *Associate Degree programme Construction Technology*. The CC concludes that such skills could not be generally expected from graduates of related programmes. Having the peers' arguments stated in the report is considered sufficient and therefore the CC decides to cancel this recommendation.

Apart from that, the CC is in accordance with the proposed resolution of the peers.

The Certification Committee decides to award the following certificates:

Degree Programme	ASIIN Certificate	Maximum duration of certification	Alignment to a Qualification Framework Level
Associate Degree in Construction Technology	With requirements for one year	31.12.2027	EQF 5
Associate Degree in Mapping and Cadastral Survey	With requirements for one year	31.12.2027	EQF 5

Requirements

For both programmes

- A 1. (ASIIN 2.2) Ensure that the module descriptions are substantially revised. In the revision, the focus has to be in detail on the actual objectives and contents of the individual courses.
- A 2. (ASIIN 2.2) Ensure to offer more opportunities for students to get practical experiences for example during onsite visits of construction areas.
- A 3. Ensure to give students a reasonable feedback about the evaluation results.

For the Associate Degree programme Construction Technology

- A 4. (ASIIN 2.1) Ensure to offer opportunities for students to get knowledge of fundamental sustainability aspects.

Recommendations

For both programmes

- E 1. (ASIIN 3) It is recommended to use more alternative forms of exams like oral exams, presentations etc.
- E 2. (ASIIN 2.2) It is recommended to offer more opportunities for students to improve their English language skills.
- E 3. (ASIIN 5) It is recommended to offer more opportunities for teaching staff to further develop constantly their professional and teaching skills.

For the Associate Degree programme Construction Technology

- E 4. (ASIIN 2.2) It is recommended to implement a graduation project into the programme.

H Fulfilment of Requirements (04.03.2022)

Analysis by the Peer Panel (25.02.2022)

Requirements

For all programmes

- A 1. (ASIIN 2.2) Ensure that the module descriptions are substantially revised. In the revision focus has to be in detail on the actual objectives and contents of the individual courses.

Initial Treatment	
Peers	Fulfilled Justification: The university has submitted new description which include more detailed information about the objectives and contents. One peer mentioned that this is not done for all modules.

- A 2. (ASIIN 2.2) Ensure to offer more opportunities for students to get practical experiences for example during onsite visits of construction areas.

Initial Treatment	
Peers	Fulfilled Justification: The university implanted some additional exercises in laboratories and a voluntary excursion. One peer mentioned that the excursion should be compulsory.

- A 3. Ensure to give students a reasonable feedback about the evaluation results.

Initial Treatment	
Peers	Fulfilled Justification: the university implemented new evaluation regulations with feedback loops including the students.

For AD Construction Technologies

- A 4. (ASIIN 2.1) Ensure to offer opportunities for students to get knowledge of fundamental sustainability aspects.

Initial Treatment	
Peers	Fulfilled Justification: The university implemented some aspects of sustainability into different modules. From the point of view of one peer these additional contents are not enough to fulfil the requirement

A 5. (ASIIN 2.2) Ensure to implement a graduation project into the programme.

Initial Treatment	
Peers	Fulfilled Justification: The university implemented a final project into the curriculum.

Decision of the Certification Commission (04.03.2022)

The CC finds that the requirement regarding the responsiveness of the course evaluation procedure (requirement 3) could not be considered fulfilled yet. It is laudable that EMU apparently includes a mid-semester evaluation in addition to the end-of-semester survey and afterwards provides feedback to the students about the follow-up of the results. However, without *evidencing* this instrument as an obligatory and reliable process in the QA of the programmes, the essence of the requirement cannot be considered fulfilled properly.

The CC agrees with the (majority of the) peers that the remaining requirements are fulfilled.

Regarding requirement 1 (module descriptions), the CC takes note that – as one peer claims – the heightened focus on objectives and contents is not visible throughout. Hence, it strongly advises EMU to check the descriptions and update those where this focus has been missed out so far.

As to requirement 2 (practical experiences), the additional lab exercises do adequately address the stated deficit.

As to requirement 4 (sustainability aspects), the CC trusts the assessment of the majority of the peers and considers aspects of sustainability addressed sufficiently. In this regard, it specifically points out that the (general and subject-specific) ASIIN criteria do not entail a quantitative standard for this issue.

The Certification Commission decides extending the certificates as follows:

Degree Programme	ASIIN certificate	Maximum duration of certification	Alignment to European Qualification Framework Level
Associate Degree Construction Technology	All requirements fulfilled	31.12.2027	5
Associate Degree Mapping and Cadastral Survey	All requirements fulfilled	31.12.2027	5