



NEAR EAST
UNIVERSITY

**Faculty of Artificial
Intelligence and
Informatics**

**Bachelor's Degree Program in
Cybersecurity Engineering**

Program Catalogue

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1. GENERAL WRITING GUIDELINES FOR THE PROGRAM CATALOGUE

1.1. Establishment of the Faculty

A) History and Academic Processes of the Faculty

The Near East University Faculty of Artificial Intelligence and Informatics was established in 2025 and began its educational activities in the same year. Turkish citizens are admitted to the faculty's programs through the Student Selection and Placement Examination (ÖSYM) in line with the decision of the Council of Higher Education (YÖK). The Faculty of Artificial Intelligence and Informatics was founded with the vision of becoming a leading institution in the contemporary world, integrating research and education through a student-centered approach and possessing international academic standards. The faculty offers undergraduate, master's, and doctoral programs in both Turkish and English.

B) Educational Policy and Academic Objectives

The Faculty of Artificial Intelligence and Informatics, in line with its progressive educational philosophy, adopts a contemporary understanding of education and implements a student-centered teaching model that promotes interdisciplinary collaboration. The educational programs are structured in accordance with international standards. Graduates of the faculty make qualified contributions to the professional and academic fields as competent, innovative, and ethically responsible individuals in artificial intelligence, software engineering, and information technologies. The academic staff contribute to science and aim to lead technological advancement through their scientific research, R&D(Research and Development) activities, and community projects.

C) Physical and Academic Infrastructure

Located at the heart of the Near East University campus, the Faculty of Artificial Intelligence and Informatics possesses a modern infrastructure designed to support advanced education and training activities. The multi-story faculty building houses fully equipped classrooms, computer laboratories, seminar halls, academic and administrative offices, and shared facilities. Theoretical courses are delivered in 18 classrooms, all equipped with projection systems, smart boards, and internet connectivity. The faculty includes five fully equipped computer laboratories and specialized labs focused on artificial intelligence, machine learning, data science, cybersecurity, and software development, providing undergraduate and graduate students with opportunities for project-based and practical work.

The faculty collaborates with units such as the Near East University International Artificial Intelligence and IoT Research Center to strengthen its research activities. Dedicated offices are provided for academic staff, along with separate administrative units and a student affairs office. In addition, relaxation areas, meeting rooms, and club rooms are allocated to enhance students' social and academic engagement. These facilities enable students to gain hands-on experience alongside theoretical knowledge and to actively participate in university life.

D) Accreditation and Quality Policy

The Faculty of Artificial Intelligence and Informatics embraces national and international quality standards in its education and research processes and aims to enhance the quality of education through a philosophy of continuous improvement. The faculty actively participates in national and international accreditation processes, regularly reviewing and improving its academic programs. These programs are structured with consideration for professional ethics, security standards, and current industry requirements, with the goal of equipping students with a strong and well-rounded professional foundation.

1.2. Faculty Mission, Vision and Core Values

A) Mission

The Faculty of Artificial Intelligence and Informatics aims to achieve excellence and leadership at both regional and global levels in the fields of artificial intelligence and informatics education, research, and community engagement. Moving beyond traditional approaches focused solely on mathematics, physics, and the natural sciences, the faculty strives to cultivate a new generation of dynamic, innovative, and visionary professionals equipped with comprehensive scientific and practical knowledge. Graduates are educated to be individuals who, guided by ethical values, can respond to the evolving demands of the global workforce and are ready to lead cutting-edge intelligent projects in the fields of informatics and data science.

B) Vision

Drawing strength from its natural connection with technology, the Faculty of Artificial Intelligence and Informatics envisions creating a unique environment that fosters interdisciplinary collaboration, advanced research, and innovation. The faculty aims not only to contribute to scientific projects but also to educate professionals who will lead and shape these projects with a forward-looking

perspective. In this context, it aspires to become a nationally and internationally recognized institution, pioneering both research and practical applications.

C) Core Values

- 1) Embracing a culture of quality
- 2) Supporting continuous improvement
- 3) Ensuring sustainable development
- 4) Commitment to scientific and universal standards
- 5) Adherence to ethical values
- 6) Student-centered approach
- 7) Encouraging innovative thinking

1.3. Faculty Goals and Objectives

A) Faculty Goals

- To educate qualified engineers and researchers in the fields of artificial intelligence and informatics, contributing to scientific and technological development.
- To produce innovative solutions in education, research, and community service in accordance with ethical values and universal academic principles.
- To conduct interdisciplinary studies and strengthen scientific collaborations at national and international levels.
- To increase interaction with the public, private sector, and society, contributing to digital transformation and the information society.
- To develop students' analytical thinking, problem-solving, and lifelong learning skills.

B) Faculty Objectives

- To ensure that students acquire knowledge and skills in artificial intelligence and informatics according to international standards.
- To continuously improve educational programs to meet the technological needs of the era.
- To increase research activities and produce scientific projects at national and international levels.

- To strengthen knowledge and technology transfer through collaboration with public and private sectors.
- To increase societal contribution and promote AI literacy.
To enhance graduates' analytical thinking, problem-solving, and innovative application competencies.

C) Education-Oriented Goals and Objectives

Goal 1: To conduct pioneering research in artificial intelligence and informatics at national and international levels.

- **Objective 1.1:** To increase the number of scientific publications through interdisciplinary projects.
- **Objective 1.2:** To obtain support from national and international research funds.
- **Objective 1.3:** To establish and strengthen advanced research laboratories within the faculty.

Goal 2: To produce innovative AI solutions for regional and global challenges.

- **Objective 2.1:** To develop joint R&D projects with industry and public institutions.
- **Objective 2.2:** To carry out applied research in priority areas such as smart cities, health technologies, and cybersecurity.
- **Objective 2.3:** To strengthen technology transfer mechanisms to convert developed projects into societal benefits.

D) Research-Oriented Goals and Objectives

Goal 1: To generate high-quality knowledge in artificial intelligence and informatics at a global level.

- **Objective 1.1:** To provide laboratory and project environments that enhance students' scientific research skills.
- **Objective 1.2:** To provide opportunities that strengthen the interdisciplinary researcher identity of academic staff.
- **Objective 1.3:** To support academic staff participation in national and international scientific events and conferences.
- **Objective 1.4:** To create academic support and funding mechanisms that encourage sustainable and innovative AI projects.

Goal 2: To develop innovative AI solutions addressing regional and global challenges.

- **Objective 2.1:** To develop joint R&D projects with industry, public institutions, and research centers.
- **Objective 2.2:** To conduct applied research in priority areas such as smart cities, health technologies, data science, and cybersecurity.
- **Objective 2.3:** To strengthen technology transfer mechanisms to convert scientific outputs into societal benefits.

E) Community and Educational Service-Oriented Goals and Objectives

Goal 1: To educate qualified individuals who contribute to the digital transformation of society and promote AI literacy.

- **Objective 1.1:** To support students' participation in community responsibility projects and technology-focused voluntary activities.
- **Objective 1.2:** To organize seminars, workshops, and training programs that increase digital awareness in society.
- **Objective 1.3:** To develop socially impactful projects in AI and informatics that address community needs.
- **Objective 1.4:** To establish joint education and certification programs with public and private sectors, contributing to technological development in society.

Goal 2: To provide sustainable educational services that support lifelong learning and professional development.

- **Objective 2.1:** To develop continuous education and certification programs that support the professional growth of academic staff and students.
- **Objective 2.2:** To accelerate society's adaptation to technology by conducting joint projects with local and international stakeholders.
- **Objective 2.3:** To create educational platforms with online and face-to-face content accessible to different age groups and professions.

1.4. Faculty Organizational Chart

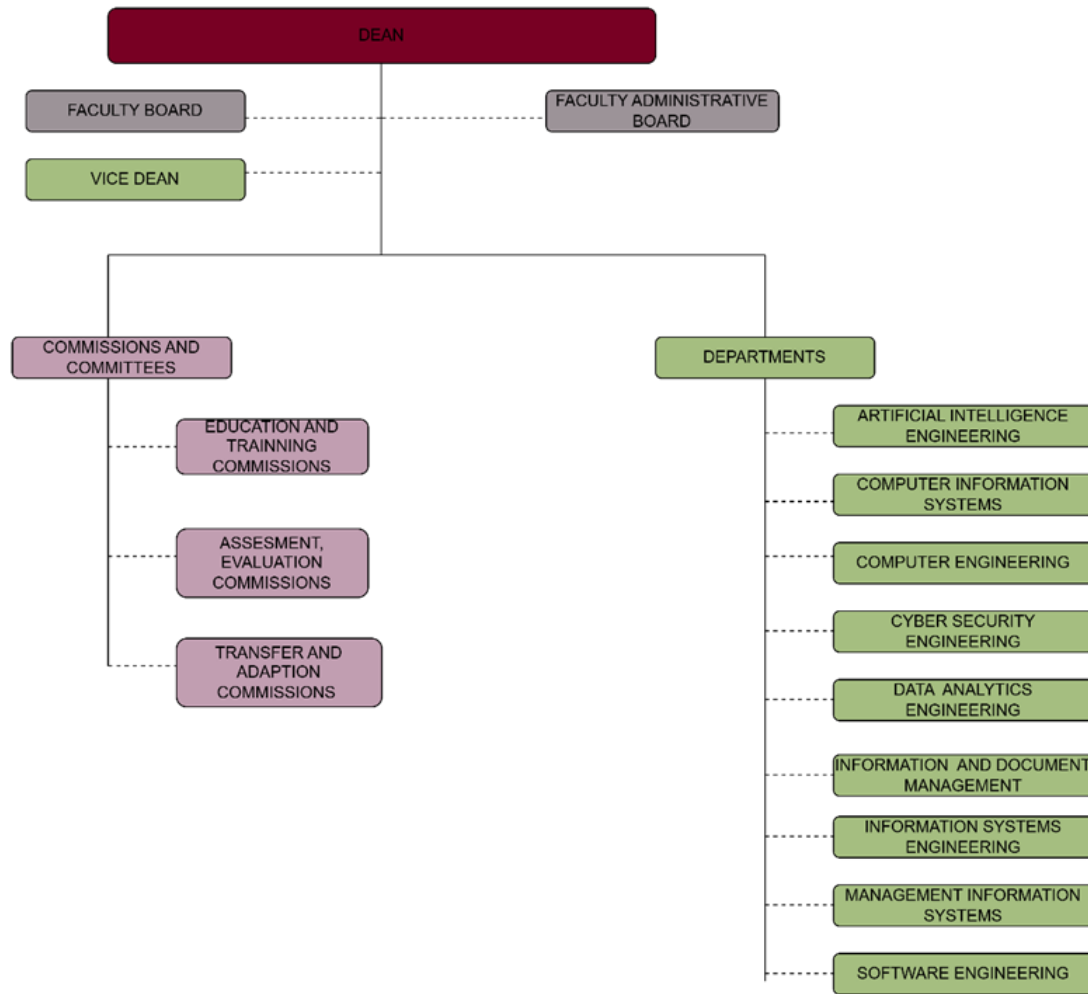


Figure 1. Organizational Chart

1.5. Faculty Administration

Academic Title and Full Name	Academic Unit of Appointment
Prof.Dr. Fadi Al-Turjman	Software Engineering
Prof.Dr. Nadire Çavuş	Computer Informatics Systems
Prof.Dr. Fezile Özdamlı	Management Information Systems
Prof. Dr. Gülsüm Aşıksoy	Artificial Intelligence Engineering
Prof.Dr. Rahib Abiyev	Computer Engineering
Assoc.Dr. Idoko John Bush	Cybersecurity Engineering
Assoc.Dr. Seren Başaran	Data Analytics Engineering
Assist.Prof.Dr. Amr Abdelbari	Information Systems Engineering

1.6. Academic Staff of the Faculty

A) Academic Structure and Departments

The Near East University Faculty of Artificial Intelligence and Informatics conducts innovative education and research activities in artificial intelligence, information technologies, and data science through its interdisciplinary structure.

The faculty consists of nine academic departments: Information and Records Management, Information Systems Engineering, Cybersecurity Engineering, Software Engineering, Computer Informatics Systems, Data Analysis Engineering, Artificial Intelligence Engineering, Management Information Systems, and Computer Engineering. Each department offers both theoretical and practical courses in its field, thereby contributing effectively to undergraduate and postgraduate programs.

Computer Engineering and Software Engineering provide fundamental engineering skills in software development, algorithms, and system design. Artificial Intelligence Engineering and Data Analysis Engineering offer advanced training and research opportunities in AI techniques, machine learning, and big data analytics. Cybersecurity Engineering focuses on network security, cryptography, and cyber defense. Information Systems Engineering and Management Information Systems emphasize the integration of information technologies into business and organizational structures. Computer Informatics Systems equips students with interdisciplinary IT infrastructure and solution development skills, while Information and Records Management contributes to society and academia through expertise in information resource management and digital archiving.

Through this comprehensive academic structure, the faculty delivers technology-oriented, innovative, and research-based education, offering students a broad range of specializations and actively contributing to both regional and global scientific development.

B) Distribution of Academic Personnel

No	Faculty/School/Institute	Department / Academic Unit	Academic Staff (with Title)
1	Faculty of Artificial Intelligence and Informatics	Software Engineering	Prof.Dr. Fadi Al-Turjman
2	Faculty of Artificial Intelligence and Informatics	Computer Informatics Systems	Prof.Dr. Nadire Çavuş
3	Faculty of Artificial Intelligence and Informatics	Management Information Systems	Prof.Dr. Fezile Özdamlı
4	Faculty of Artificial Intelligence and Informatics	Artificial Intelligence Engineering	Prof. Dr. Gülsüm Aşıksoy

5	Faculty of Artificial Intelligence and Informatics	Computer Engineering	Prof.Dr. Rahib Abiyev
6	Faculty of Artificial Intelligence and Informatics	Computer Engineering	Assoc. Dr. Ahmet İlhan
7	Faculty of Artificial Intelligence and Informatics	Computer Engineering	Assoc. Dr. Boran Şekeroğlu
8	Faculty of Artificial Intelligence and Informatics	Cybersecurity Engineering	Assoc. Dr. Idoko John Bush
9	Faculty of Artificial Intelligence and Informatics	Computer Informatics Systems	Assoc. Dr. Sahar Ebadinezhad
10	Faculty of Artificial Intelligence and Informatics	Data Analysis Engineering	Assoc. Dr.Seren Başaran
11	Faculty of Artificial Intelligence and Informatics	Information Systems Engineering	Assist.Prof.Dr.Amr Abdelbari
12	Faculty of Artificial Intelligence and Informatics	Computer Engineering	Assist.Prof.Dr. Elbrus Bashir Imanov
13	Faculty of Artificial Intelligence and Informatics	Artificial Intelligence Engineering	Assist.Prof.Dr. Kaan Uyar
14	Faculty of Artificial Intelligence and Informatics	Computer Informatics Systems	Assist.Prof.Dr. Nasim Ahmadzadeh

15	Faculty of Artificial Intelligence and Informatics	Computer Engineering	Assist.Prof.Dr. Ümit İlhan
16	Faculty of Artificial Intelligence and Informatics	Software Engineering	Assist.Dr. Oluwaseun Priscilla Olawale
17	Faculty of Artificial Intelligence and Informatics	Cybersecurity Engineering	Dr. Galip Savaş İlgi
18	Faculty of Artificial Intelligence and Informatics	Data Analysis Engineering	Dr. Hamit Altıparmak
19	Faculty of Artificial Intelligence and Informatics	Artificial Intelligence Engineering	Dr. Mohamad Ziad Altabel
20	Faculty of Artificial Intelligence and Informatics	Computer Informatics Systems	Dr. Oluwafemi Ayotunde Oke
21	Faculty of Artificial Intelligence and Informatics	Information and Records Management	Dr. Sıla Gürler
22	Faculty of Artificial Intelligence and Informatics	Software Engineering	Dr.Ramiz Salama
23	Faculty of Artificial Intelligence and Informatics	Information Systems Engineering	MSc. Çağrı Özkan

24	Faculty of Artificial Intelligence and Informatics	Information and Records Management	MSc.Rabiu Abubakar
25	Faculty of Artificial Intelligence and Informatics	Artificial Intelligence Engineering	MSc.Sinem Alturjman

C) Academic Development and Quality Policy

Within the Near East University Faculty of Artificial Intelligence and Informatics, there are nine academic departments: Information and Records Management, Information Systems Engineering, Cybersecurity Engineering, Software Engineering, Computer Informatics Systems, Data Analysis Engineering, Artificial Intelligence Engineering, Management Information Systems, and Computer Engineering.

The faculty stands out with its expert and experienced academic staff. As of the 2024–2025 academic year, the faculty employs a total of 25 academic personnel, comprising 5 professors, 5 associate professors, 6 assistant professors (doctoral faculty members), 6 PhD holders, and 3 lecturers.

The academic staff provide education at both undergraduate and graduate levels and contribute to scientific studies in artificial intelligence and information technologies through their research. They also participate in various training and development programs to support their professional growth and play active roles in national and international projects, thereby advancing their individual academic careers and increasing the faculty's recognition at the international level.

1.7. Academic Programs Offered by the Faculty

The Faculty of Artificial Intelligence and Informatics offers a wide range of academic programs at undergraduate, master's, and doctoral levels, providing students who wish to gain in-depth knowledge in artificial intelligence and informatics with extensive opportunities. Each program enables students to specialize in their chosen field and contribute to the ecosystem of information technologies and artificial intelligence.

The programs offered by the faculty are as follows:

Undergraduate Programs

- Artificial Intelligence Engineering
- Computer Engineering
- Computer Information Systems
- Cybersecurity Engineering
- Data Analysis Engineering
- Information and Records Management
- Information Systems Engineering
- Management Information Systems
- Software Engineering

Master's Programs

- Artificial Intelligence Engineering
- Computer Engineering
- Computer Information Systems
- Information Systems Engineering

- Software Engineering

Doctoral Programs

- Computer Engineering
- Computer Information Systems

2. GENERAL INFORMATION OF THE PROGRAM

2.1. Brief History and Development of the Program

The department of Cybersecurity Engineering was established in the 2025 – 2026 fall semester. At the moment, the department offers only undergraduate program in English. In addition, the department works in close cooperation with other departments in the faculty – the Faculty of Artificial Intelligence and Informatics, providing an interdisciplinary learning environment. In an era where digital transformation is at the heart of every industry, the importance of building secure, resilient, and trustworthy systems has never been greater. Our department stands at the forefront of this mission — committed to developing the next generation of cybersecurity engineers who are not only technically skilled but ethically grounded and innovation-driven.

2.2. Type of Education of the Program

The Cybersecurity Engineering program is delivered within the framework of formal higher education. Accordingly, courses are offered through face-to-face, online, and hybrid modalities, incorporating both theoretical instruction and practical application to ensure comprehensive academic and professional competence.

2.3. Educational Level of the Program

The Cybersecurity Engineering program comprises a four-year undergraduate curriculum totaling 240 ECTS credits. The program fulfills the “Level 6” qualifications defined within the Turkish Higher Education Qualifications Framework (TYYÇ). In alignment with this framework, the program has been meticulously designed to meet both the ECTS credit requirements and the specified level competencies.

2.4. Language of Instruction of the Program

The medium of instruction in the Cybersecurity Engineering program is in English.

2.5. Duration of the Program

The duration of study in the Cybersecurity Engineering program is four years (eight semesters). The department operates on a two-semester academic calendar – Fall and Spring- comprising a total of 28 weeks of instruction.

2.6. Organizational Chart of the Program

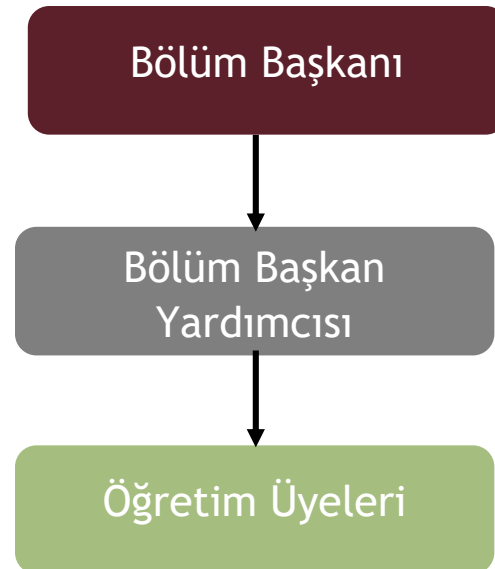


Figure 2. Organizational Chart of the Program

2.7. Program Coordinator

Assoc. Prof. Dr. John Bush Idoko
Head of the Department
john.bush@neu.edu.tr

2.8. Program Management and Academic Staff

The aim of the Cybersecurity Engineering Undergraduate Program is to equip students with both theoretical knowledge and practical skills in the fields of information technologies and business, thereby preparing them for professional careers. The program aspires to cultivate graduates who are capable of solving real-world problems, keeping pace with technological advancements, and demonstrating a commitment to lifelong learning.

With its specialized academic staff in areas such as databases, security, computer networks, artificial intelligence, software testing, informatics, and project management, the program provides a comprehensive education that integrates both theoretical foundations and practical applications.

As of 2025, the program employs a total of two full-time academic staff members, consisting of one associate professor, and one doctor. The academic personnel contribute to the field through undergraduate-level teaching, and scholarly research. Faculty members also play an active role in projects, in-service training activities, and academic collaborations that support professional development.

Akadeemik Kadro	
Assoc. Prof. Dr. John Bush Idoko	Head of the Department
Dr. Galip Savaş İlgi	Vice Head of the Department

3. MISSION AND VISION OF THE PROGRAM

This section should include the program's mission and vision.

3.1. Mission

The mission of the Cybersecurity Engineering Undergraduate Program is to contribute to society, industry, and academia by developing qualified human resources in the fields of system security and information technologies, and to educate students as innovative individuals who are responsive to current technological developments and committed to ethical values. The program aims to provide students with theoretical knowledge, practical skills, and research competencies in computer science, cybersecurity, and business process management. Through project-based group work, students utilize contemporary technologies, analyze real-world problems, and develop solutions or applications that facilitate daily life, thereby enhancing both their technical and managerial capabilities. Furthermore, the program seeks to nurture individuals who are socially responsible, committed to lifelong learning, and capable of engaging in multidisciplinary collaboration.

3.2. Vision

The vision of the Cybersecurity Engineering Undergraduate Program is to become a nationally and internationally recognized, innovative, and solution-oriented educational program in the fields of computer system security and information technologies. The program aims to cultivate individuals who prioritize quality in education, sustainability in research, and societal impact, while also being capable of guiding technological advancements. By promoting a data-driven decision-making approach, digital transformation, and a culture of multidisciplinary collaboration. The program aspires to be a pioneering department that contributes to the development of both the information technology sector and academia.

4. CORE VALUES OF THE PROGRAM

- **Academic Excellence:** Continuously enhancing the knowledge and skills of students and academic staff, and delivering high-quality education and research.
- **Scientific Integrity:** Adhering to ethical principles in research and practice, prioritizing honesty and transparency.
- **Continuous Development:** Keeping pace with technological innovations and embracing the philosophy of lifelong learning.
- **Collaboration and Teamwork:** Acting with a team spirit and promoting cooperation and knowledge sharing across disciplines.
- **Social Responsibility:** Being sensitive to societal needs and producing solutions that generate social benefit and sustainability.
- **Innovation and Creativity:** Developing new ideas and supporting innovation in problem-solving and technology development processes.
- **Professionalism:** Acting in accordance with professional ethics and standards, and cultivating responsible and reliable individuals.

The Cybersecurity Engineering Undergraduate Program embraces the following core values:

1. **Academic and Professional Ethics:** Adhering to ethical principles in research and practice, and prioritizing honesty and transparency.
2. **Innovation and Openness to Technology:** Embracing continuous development and a culture of digital transformation.
3. **Social Responsibility:** Being sensitive to societal needs and producing solutions that generate social benefit and sustainability.
4. **Continuous Development:** Keeping pace with technological innovations and adopting the philosophy of lifelong learning.
5. **Multidisciplinary Approach:** Being open to collaboration with different fields.
6. **Participatory and Collaborative Culture:** Valuing teamwork, open communication, and cooperation.

7. **Quality Orientation:** Striving for continuous improvement in education, research, and service processes.

5. FIELDS OF ACTIVITY OF THE PROGRAM

- **Education and Training Activities:** The program clearly defines the knowledge, skills, and competencies expected from its graduates. A comprehensive curriculum has been designed to support the academic, professional, and personal development of students. Contemporary teaching methods and techniques are utilized throughout the program. Assessment and evaluation processes are carried out meticulously, and academic advising and guidance services are provided to support students throughout their educational journey.
- **Research and Development Activities:** Scientific research and projects conducted by faculty members and students within the program are actively encouraged and supported. These research activities contribute to improving students' learning outcomes and provide substantial support to their academic and professional development. In addition, these efforts reinforce the program's innovative and evidence-based approach, while enhancing the overall quality of education.
- **Professional Development and Continuing Education Activities:** Within the scope of the program, various activities are organized to continuously enhance the professional knowledge, skills, and competencies of both students and faculty members. These activities include seminars, certification programs, and workshops, which enable students to stay up-to-date with technological advancements and develop expertise in their respective fields. At the same time, faculty members benefit from these initiatives by updating their instructional methods and knowledge. Collectively, these efforts contribute significantly to students' academic, professional, and personal development.
- **Community Contribution and Service Activities:** The program should include community contribution and service activities carried out by both teacher candidates and faculty members. The effects of these activities on the professional and personal development of teacher candidates should also be described.
- **Societal Contribution and Service Activities:** The program aims to cultivate socially responsible individuals by encouraging active participation of faculty members and students in social responsibility initiatives and projects. These activities provide opportunities for applying information technologies to benefit society, while simultaneously supporting students' personal and professional growth. Through these efforts, the program fosters engagement, ethical responsibility, and awareness of societal needs.

6. OBJECTIVES AND GOALS OF THE PROGRAM

When defining the program's purposes and objectives, the mission and vision of the university and faculty should be taken as the basis. The statements of purposes and objectives must be consistent with the mission and vision, clear, measurable, and achievable. Additionally, these statements should be structured in a way that ensures coherence between learning outcomes and program outcomes.

6.1. Statement of Purpose

- 1) To train students who are well-equipped in the field of computer system security
- 2) To train students who are capable of conducting research and being innovative
- 3) To train students with developed ethical, communication, and teamwork skills
- 4) To train students who are lifelong learners and continuously improve themselves
- 5) To train students who contribute to society

6.2. Statement of Objectives

A) Objectives and Goals Covering the Field of Education

Goal 1: Train students who are well-equipped in the field of cybersecurity engineering

- **Objective 1.1:** Strengthen knowledge in basic computer science, software, and information technologies.
- **Objective 1.2:** Develop practical skills in cybersecurity and artificial intelligence.
- **Objective 1.3:** Acquire competencies in data management, algorithms, and programming.
- **Objective 1.4:** Ensure active participation in interdisciplinary projects.

Goal 2: Train students who are capable of conducting research and being innovative

- **Objective 2.1:** Increase participation in research methods and R&D processes.
- **Objective 2.2:** Develop problem-solving and critical thinking skills.
- **Objective 2.3:** Raise awareness of innovative technologies.

Goal 3: Train students with developed ethical, communication, and teamwork skills

- **Objective 3.1:** Instill awareness of computer ethics and professional responsibility.
- **Objective 3.2:** Strengthen communication and teamwork skills.
- **Objective 3.3:** Encourage participation in projects that provide social benefits.

Goal 4: Train students who are lifelong learners and continuously improve themselves

- **Objective 4.1:** Follow technological developments.
- **Objective 4.2:** Cultivate lifelong learning habits.

Goal 5: Train students who contribute to society

- **Objective 5.1:** Encourage participation in social responsibility projects and support personal development.
- **Objective 5.2:** Enable students to develop technology-based solutions addressing societal needs.

- **Objective 5.3:** Ensure students contribute to society through voluntary activities.

B) Objectives and Goals Covering the Field of Research

Goal 1: Educate students capable of conducting scientific research in the field of cybersecurity

- **Objective 1.1:** Provide students with foundational theoretical knowledge in research methods, data analysis, and scientific research techniques.
- **Objective 1.2:** Develop students' skills in academic writing and scientific publication.
- **Objective 1.3:** Equip students with presentation and communication skills to effectively convey research results.

Goal 2: Ensure students' participation in innovative and application-oriented research and development activities

- **Objective 2.1:** Encourage students to conduct research aligned with current technologies and field trends.
- **Objective 2.2:** Support students' active participation in interdisciplinary projects.
- **Objective 2.3:** Increase students' motivation to produce scientific projects and publications.

C) Objectives and Goals Covering Contributions to Society and Educational Services

Goal 1: Ensure students actively participate in projects that provide societal benefits

- **Objective 1.1:** Encourage students to participate in social responsibility projects and support their personal development through gained experiences.

- **Objective 1.2:** Develop students' project creation and implementation skills to produce technology-based solutions addressing societal needs.
- **Objective 1.3:** Facilitate students' contribution to society through voluntary activities.

Goal 2: Support students' academic and personal development

- **Objective 2.1:** Provide individual academic advising and guidance services to facilitate learning processes.
- **Objective 2.2:** Integrate modern technologies and effective learning methods into educational processes to enrich students' learning experiences.
- **Objective 2.3:** Organize seminars, certification programs, and workshops that contribute to students' professional and personal development.

Goal 3: Increase students' participation in societal and educational activities

- **Objective 3.1:** Create opportunities for students to actively participate in local and national societal projects.
- **Objective 3.2:** Support students in gaining experience through internships and voluntary work in cooperating institutions and organizations.

7. PROGRAM COMPETENCIES

7.1. Program Learning Outcomes

The Cybersecurity Engineering program is at Level 6 of the Turkish Qualifications Framework for Higher Education (TQF-LLL: Level 6, QF-EHEA: First Cycle). The program is aligned with TQF 48 – Core Competences in the Field of Computer Science within the Turkish Higher Education Qualifications Framework.

Program Qualifications of the Department of Cybersecurity Engineering

Knowledge – Theoretical and Factual Learning Outcomes

- **PQ1:** Acquires fundamental theoretical knowledge in computer science and cybersecurity; gains understanding in areas such as software development, data structures, algorithms, and computer system security.

Skills – Cognitive and Practical Learning Outcomes

- **PQ2:** Analyzes software problems, develops algorithms, and produces effective solutions using programming languages and technologies.
- **PQ3:** Utilizes current tools and methods in cybersecurity, artificial intelligence, and software applications; adapts to emerging technologies.

Competencies – Independent Work and Responsibility Learning Outcomes

- **PQ4:** Assumes responsibility in individual or team-based work; plans and executes cybersecurity related projects.
- **PQ5:** Collaborates with different disciplines to produce integrated computer systems security solutions.

Competencies – Learning Competence and Learning Outcomes

- **PQ6:** Acts with a lifelong learning mindset; plans, evaluates, and takes responsibility for personal learning and development.

Competencies – Communication and Social Competence Learning Outcomes

- **PQ7:** Uses written and verbal communication skills effectively; communicates clearly with technical and non-technical stakeholders.
- **PQ8:** Acts with professional and ethical responsibility; evaluates the security, privacy, societal, and environmental impacts of informatics systems.

Competencies – Field-Specific Competence Learning Outcomes

- **PQ9:** Analyzes organizational cybersecurity needs and develops appropriate system architectures and software solutions.
- **PQ10:** Manages and implements hardware, computer network security, and communication infrastructures in an integrated manner.

7.2. Relationship between Program Learning Outcomes and NQF Qualifications

A) Structure of the NQF

- 1) Qualification Title: Bachelor's Degree in Cybersecurity Engineering
- 2) Level of Qualification: First Cycle / Bachelor's Degree
- 3) Qualification Type: Cycle: First Cycle (Undergraduate)/Cybersecurity Engineering
- 4) Admission Requirements: Completion of secondary education (high school diploma or equivalent); Successful performance in national university entrance examination (e.g., YKS in Türkiye).
- 5) Qualification Requirements and Regulations
 - Successful completion of all courses, laboratories, and design projects in the approved curriculum.
 - Minimum cumulative GPA (e.g., 2.00/4.00).
 - Completion of required internship(s) and graduation project.
 - Total credits: 240 ECTS (typically 8 semesters).
- 6) Profile of the Program: A broad-based engineering program that integrates hardware and software knowledge to design, analyze, and develop computer systems, networks, and intelligent technologies. It combines theoretical foundations, applied laboratory work, and engineering design to prepare graduates for professional practice and lifelong learning.
- 7) Learning Outcomes (presented in 7.1)
- 8) Occupational Profiles of Graduates: Cybersecurity engineers, software developers, system analysts, hardware designers, network engineers, data scientists, or researchers. They may find employment in IT companies, telecommunications, manufacturing, defense, and public institutions, or pursue graduate studies
- 9) Access to Further Studies: Eligible for Master's Degree (Second Cycle) programs in Cybersecurity Engineering, Artificial Intelligence, and related fields.

- 10) Assessment and Grading: Based on midterm and final exams, laboratory work, design projects, assignments, and practical evaluations; Uses a letter grading system corresponding to a 4.00 GPA scale.
- 11) Mode of Study Full-time (face-to-face) education.
- 12) Program Director: Assoc. Prof. Dr. John Bush Idoko, Head of Department, Faculty of AI and Informatics, Near East University.

B) Matrix of Program Learning Outcomes and NQF Alignment

Cybersecurity Engineering Department - Program Learning Outcomes

Knowledge – Theoretical and Factual Learning Outcomes	PY1. Gains fundamental theoretical knowledge related to computer science and cybersecurity; has knowledge in areas such as software development, data structures, algorithms, and computer networks.
Skills – Cognitive and Practical Learning Outcomes	PY2. Analyzes software problems; develops algorithms; produces effective solutions by using programming languages and technologies.
	PY3. Uses cybersecurity engineering tools and methods in developing contemporary applications; adapts to new technologies.
Competencies – Learning Outcomes for Independent Working and Taking Responsibility	PY4. Takes responsibility individually or within a team; plans and manages cybersecurity projects.
	PY5. Produces integrated cybersecurity solutions by working in coordination with different disciplines.
Competencies – Learning Competence Learning Outcomes	PY6. Acts with lifelong learning awareness; evaluates and manages his/her own learning process and development.
Competencies – Communication and Social Competence Learning Outcomes	PY7. Uses written and verbal communication skills effectively; establishes clear communication with technical and non-technical stakeholders.
	PY8. Acts with professional and ethical awareness; evaluates the security, social, and environmental effects of informatics systems.
Competencies – Field-Specific Competence Learning Outcomes	PY9. Analyzes institutional information system needs; develops suitable system architectures and software solutions.
	PY10. Manages hardware, software, and communication infrastructure effectively and applies them.

7.3. The Relationship between Courses and Program Qualifications

		Field-Specific Basic Education Courses	Program Learning Outcomes (PCs)											
		General Common Courses												
		Field-Specific Courses												
		Professional Knowledge Courses												
	COURSE CODE	COURSE NAME	ECT S	PC 1	PC 2	PC 3	PC 4	PC 5	PC 6	PC 7	PC 8	PC 9	PC10	PC11
1. YEAR / 1. SEMESTER	MTH113	LINEAR ALGEBRA	3	1	1	2	1	1	3	5	1	1	1	2
	AI102	PROGRAMMING AND PROBLEM SOLVING	6	3	3	2	2	2	2	1	1	2	1	2
	ENG101	ENGLISH I	7	1	2	1	2	3	2	2	2	2	1	2
	MTH101	CALCULUS I	6	1	1	1	2	3	2	2	1	1	1	2
	PHY101	GENERAL PHYSICS I	4	4	3	3	2	2	3	2	2	4	3	2
	CAM100	CAMPUS ORIENTATION	2	1	1	1	1	1	2	4	1	1	1	1
	CHM101	GENERAL CHEMISTRY I	2	1	1	1	2	2	2	2	1	1	1	1
1. YEAR / 2. SEMESTER	AI104	DISCRETE STRUCTURES	3	1	1	2	1	1	3	5	1	1	1	2
	ENG102	ENGLISH II	6	3	4	2	2	2	2	1	1	2	1	2
	MTH102	CALCULUS II	7	1	2	1	2	3	2	2	2	2	1	2
	PHY102	GENERAL PHYSICS II	6	1	1	1	3	4	2	3	2	2	1	3
	AI108	OBJECT ORIENTED PROGRAMMING	4	5	5	4	2	2	3	2	1	3	1	3
	GEC351	21ST CENTURY SKILLS	2	1	1	1	1	1	2	4	1	1	1	1
	CAR100	CAREER PLANNING	2	2	3	3	4	4	4	5	3	2	2	4
2. YEAR 1.	AI1001	LOGIC DESIGN	4	1	1	2	3	3	3	5	2	2	1	3
	AI1201	DATA STRUCTURES& ALGORITHMS	4	5	5	4	3	2	3	2	1	3	1	3
	CSE002	INTRODUCTION TO CYBER SECURITY ENGINEERING	6	2	3	3	2	2	3	1	1	2	1	2
	MTH201	DIFFERENTIAL EQUATIONS	6	5	5	4	3	2	3	2	1	5	1	4
	CSE003	INTRODUCTION TO ENGINEERING	6	1	2	1	2	3	2	2	2	1	1	2

	AIT103	ATATÜRK PRINCIPLES AND REFORMS I	2	1	1	1	1	1	2	2	2	1	1	2
	YIT101	TURKISH FOR FOREIGNERS I	2	1	1	1	1	2	2	2	2	1	1	2
2. YEAR 2. SEMESTER	AII202	DATABASE MANAGEMENT SYSTEMS	4	5	3	4	3	2	3	2	2	4	5	3
	CSE004	INTRODUCTION TO COMPUTATION AND PROGRAMMING	6	4	5	5	3	3	3	2	1	4	2	4
	CSE005	CRYPTOGRAPHY FUNDAMENTALS	6	2	3	3	2	2	3	1	1	2	1	3
	MTH251	PROBABILITY AND STATISTICS	6	4	4	5	3	3	3	2	2	5	2	4
	AIT104	ATATÜRK PRINCIPLES AND REFORMS II	4	3	3	4	3	3	3	2	2	3	3	3
	YIT102	TURKISH FOR FOREIGNERS II	2	1	1	1	1	1	2	2	2	1	1	2
	CSE299	SUMMER TRAINING I	2	1	1	1	4	3	4	3	2	2	1	3
	CSE006	INTRODUCTION TO COMPUTING FOR DIGITAL SYSTEMS ENGINEERING	6	1	1	2	3	4	2	3	2	2	1	3
3. YEAR / 1. SEMESTER	CSE007	RF SOFTWARE ENGINEERING	6	3	4	5	4	4	3	3	2	5	2	4
	CSE008	DATA COMMUNICATION	6	4	5	5	5	4	3	3	2	5	2	5
	AII302	OPERATING SYSTEMS	6	3	5	5	3	3	3	2	1	4	2	4
	AII439	OCCUPATIONAL HEALTH AND SAFETY I	6	4	5	5	4	4	4	2	1	3	2	3
	ENG201	ORAL COMMUNICATION SKILLS	6	3	5	4	3	3	3	3	2	2	1	4
	CHC100	CYPRUS HISTORY AND CULTURE	6	3	4	4	3	3	3	2	1	5	2	4
	CSE009	COMPUTER NETWORKING	6	2	4	4	3	3	3	2	2	4	1	5
3. YEAR / 2.	CSE010	SYSTEMS ENGINEERING	6	2	3	4	3	5	3	3	3	4	2	4
	CSE011	POWER SYSTEMS AND SMART GRID SECURITY	6	4	5	5	4	3	3	2	1	5	2	5
	CSE012	TRANSPORTATION SYSTEMS DESIGN	6	3	3	4	3	3	4	3	1	4	3	4
	AII440	OCCUPATIONAL HEALTH AND SAFETY II	6	1	1	2	2	3	3	3	5	3	1	5
	CSE399	SUMMER TRAINING II	6	4	5	4	3	3	3	2	1	5	1	4
	CSE013	ENGINEERING SENIOR SEMINAR	3	3	4	4	5	4	4	3	2	5	2	5
4. YEAR /1.	CSE014	INDUSTRIAL CONTROL SYSTEMS SECURITY	3	2	4	4	5	4	4	4	3	4	3	5
	CSE510	SENIOR ADVANCED DESIGN PROJECT I	6	1	1	1	3	4	2	4	2	2	1	3
	CSE015	EMBEDDED AND REAL TIME SYSTEMS	6	1	1	1	4	4	4	3	3	3	1	4

4. YEAR / 2.	TE	TECHNICAL ELECTIVE	-	-	-	-	-	-	-	-	-	-	-	-
	TE	TECHNICAL ELECTIVE	-	-	-	-	-	-	-	-	-	-	-	-
	CSE511	SENIOR ADVANCED DESIGN PROJECT II	6	1	2	3	4	4	3	3	2	4	2	4
	CSE016	HUMAN FACTORS AND CYBER SECURITY ENGINEERING	6	4	5	5	5	5	5	3	3	5	3	5
	CSE017	SYSTEM SECURITY AND RESILIENCE SISTEM	6	1	2	2	2	4	4	4	3	3	3	3
	CSE018	MOBILE DEVICES AND NETWORK SECURITY	6	4	5	5	5	5	3	3	3	3	4	4
	TE	TECHNICAL ELECTIVE	-	-	-	-	-	-	-	-	-	-	-	-
	TE	TECHNICAL ELECTIVE	-	-	-	-	-	-	-	-	-	-	-	-

Total number of Courses: 50

Total ECTS: 240

NOTE: In the matrix, 1 indicates "none", 2 "weak", 3 "moderate", 4 "good", and 5 "very good" contribution.

ELECTIVE COURSES														
DERS KODU	DERS ADI	ECT S	PC 1	PC 2	PC 3	PC 4	PC 5	PC 6	PC 7	PC 8	PC 9	PC1 0	PC1 1	
AII431	E-COMMERCE	5	2	3	3	3	3	3	3	2	2	1	3	
AII404	NEURAL NETWORKS	5	2	2	3	2	4	3	3	4	4	2	4	
AII419	IMAGE PROCESSING	5	5	5	4	3	2	3	2	4	4	3	5	
CSE417	MOBILE PROGRAMMING	5	3	3	4	3	3	3	3	2	2	1	3	
AII415	DECISION MAKING	5	4	4	4	3	3	3	2	3	4	3	4	
AII427	MANAGEMENT FOR ENGINEERS	5	4	3	4	3	2	3	2	3	3	5	4	
AII445	INRODUCTION TO MACHINE LEARNING	5	2	2	3	3	3	2	3	2	3	4	3	
CSE411	ADVANCED DATA ANALYSIS	5	4	5	5	3	3	3	2	2	4	2	5	
CSE412	INFORMATION RETRIEVAL AND WEB SEARCH	5	4	4	4	3	3	3	2	5	4	4	5	

CSE418	INTERNET PROGRAMMING	5	3	4	5	4	3	3	2	3	4	1	4
CSE428	EGOVERNMENT	5	3	3	3	3	4	3	4	3	4	3	3
AII429	ENGINEERING ETHICS	5	3	4	4	3	3	3	3	3	4	2	5
CSE430	PRINCIPLES OF INFORMATION SECURITY	5	2	2	3	3	4	4	5	3	3	2	3
AII426	ECONOMICS FOR ENGINEERS	5	3	4	5	3	3	3	2	1	4	2	4

8. COURSE LIST

This section provides information on the semester-wise and elective course distribution tables for the Cybersecurity Engineering undergraduate program, as well as details on the university-wide common compulsory courses and course syllabi.

8.1. Distribution Tables of Semester and Elective Courses in the Program

This section systematically presents the program structure of the Cybersecurity Engineering undergraduate program, the organization of courses, and the elective course options available to students.

A) Semester Distribution of Courses

FACULTY OF ARTIFICIAL INTELLIGENCE AND INFORMATICS CYBER SECURITY ENGINEERING DEPARTMENT										YAPAY ZEKA VE BİLİŞİM FAKÜLTESİ SİBER GÜVENLİK MÜHENDİSLİĞİ BÖLÜMÜ									
First Semester										Second Semester									
CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E			CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E		
MTH113	LINEAR ALGEBRA	DOĞRUSAL CEBİR	C	3	0	3	5			AII104	DISCRETE STRUCTURES	DISKRİT YAPILAR	C	3	0	3	5		
AII102	PROGRAMMING AND PROBLEM SOLVING	PROGRAMLAMA VE PROBLEM ÇÖZME	C	3	2	4	5			ENG102	ENGLISH II	İNGİLİZCE II	C	3	0	3	3		
ENG101	ENGLISH I	İNGİLİZCE I	C	3	0	3	3			MTH102	CALCULUS II	MATEMATİK II	C	4	0	4	6		
MTH101	CALCULUS I	MATEMATİK I	C	4	0	4	5			PHY102	GENERAL PHYSICS II	GENEL FİZİK II	C	3	2	4	6		
PHY101	GENERAL PHYSICS I	GENEL FİZİK I	C	3	2	4	5			AII108	OBJECT ORIENTED PROGRAMMING	NESNE YÖNÜMLÜ PROGRAMLAMA	C	2	2	3	5		
CAM100	CAMPUS ORIENTATION	KAMPÜSE UYUM	C	2	0	0	2			GEC351	21ST CENTURY SKILLS	21. YY BECERİLERİ	E	2	0	0	2		
CHM101	GENERAL CHEMISTRY I	GENEL KİMYA I	C	3	2	4	5			CAR100	CAREER PLANNING	KARIYER PLANLAMA	C	2	0	0	2		
Total				21	6	22	30			Total				19	4	17	30		
Third Semester										Fourth Semester									
CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E			CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E		
AII001	LOGIC DESIGN	SAYISAL MANTIK	C	3	2	4	6			AII202	DATABASE MANAGEMENT SYSTEMS	VERİ TABANI YÖNETİM SİSTEMLERİ	C	4	0	4	5		
AII201	DATA STRUCTURES& ALGORITHMS	VERİ YAPILARI VE ALGORİTMALAR	C	3	2	4	6			CSE004	INTRODUCTION TO COMPUTATION AND PR	HESAPLAMA VE PROGRAMLAMAYA GİRİŞ	C	2	2	3	5		
CSE002	INTRODUCTION TO CYBER SECURITY ENGINEERING	SİBER GÜVENLİK MÜHENDİSLİĞİNE GİRİŞ	C	3	0	3	3			CSE005	CRYPTOGRAPHY FUNDAMENTALS	KRİPTOGRAFYA TEMELLERİ	C	4	0	3	4		
MTH201	DIFFERENTIAL EQUATIONS	DİFERANSİYEL DENKLEMLER	C	4	0	4	6			MTH251	PROBABILITY AND STATISTICS	OLASILIK VE İSTATİSTİK	C	3	0	3	6		
CSE003	INTRODUCTION TO ENGINEERING	MÜHENDİSLİĞE GİRİŞ	C	3	0	3	5			AII104	ATATÜRK PRINCIPLES AND REFORMS II	ATATÜRK İLKELERİ VE İNKILAP TARİHİ II	C	2	0	2	3		
AII103	ATATÜRK PRINCIPLES AND REFORMS I	ATATÜRK İLKELERİ VE İNKILAP TARİHİ I	C	2	0	2	2			YIT102	TURKISH FOR FOREIGNERS II	YABANCILAR İÇİN TÜRKÇE II	C	2	0	2	3		
YIT101	TURKISH FOR FOREIGNERS I	YABANCILAR İÇİN TÜRKÇE I	C	2	0	2	2			CSE299	SUMMER TRAINING I	STAJ I	E	0	2	0	6		
Total				20	4	22	30			Total				17	4	17	30		
Fifth Semester										Sixth Semester									
CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E			CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E		
CSE006	INTRODUCTION TO COMPUTING FOR DIGITAL SYSTEMS ENGINEERING	DİJİTAL SİSTEM MÜHENDİSLİĞİ İÇİN BİLGİSAYARA GİRİŞ	C	3	2	3	4			CSE009	COMPUTER NETWORKING	BİLGİSAYAR AĞI	E	3	0	3	5		
CSE007	RF SOFTWARE ENGINEERING	RF YAZILIM MÜHENDİSLİĞİ	E	4	0	4	5			CSE010	SYSTEMS ENGINEERING	SİSTEM MÜHENDİSLİĞİ	C	3	0	3	5		
CSE008	DATA COMMUNICATION	VERİ İLETİŞİMİ	C	3	0	3	5			CSE011	POWER SYSTEMS AND SMART GRID SECURITY	GÜÇ SİSTEMLERİ VE AKILLI SEBEKE GÜVENLİĞİ	E	3	0	4	5		
AII302	OPERATING SYSTEMS	İSLETİM SİSTEMLERİ	C	4	0	3	6			CSE012	TRANSPORTATION SYSTEMS DESIGN	ULAŞIM SİSTEMLERİ TASARIMI	C	3	0	4	5		
AII439	OCCUPATIONAL HEALTH AND SAFETY I	İŞ SAĞLIĞI VE GÜVENLİĞİ I	C	2	0	2	4			AII440	OCCUPATIONAL HEALTH AND SAFETY II	İŞ SAĞLIĞI VE GÜVENLİĞİ II	C	3	0	4	5		
ENG201	ORAL COMMUNICATION SKILLS	SÖZLÜ İLETİŞİM BECERİLERİ	C	2	0	3	4			CSE399	SUMMER TRAINING II	STAJ II	C	0	2	0	6		
CHC100	CYPRUS HISTORY AND CULTURE	KIBRIS KÜLTÜRÜ VE TARİHİ	C	2	0	2	2												
Total				20	2	20	30			Total				15	2	17	30		
Seventh Semester										Eighth Semester									
CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E			CODE	COURSE NAME	DERS ADI	C/E	T	P	C	E		
CSE013	ENGINEERING SENIOR SEMINAR	MÜHENDİSLİK KIDEMLİ SEMİNERİ	E	3	2	4	5			CSE511	SENIOR ADVANCED DESIGN PROJECT II	KIDEMLİ İLERİ TASARIM PROJESİ II	C	3	0	3	5		
CSE014	INDUSTRIAL CONTROL SYSTEMS SECURITY	ENDÜSTRİYEL KONTROL SİSTEMLERİ GÜVENLİĞİ	E	3	0	4	5			CSE016	HUMAN FACTORS AND CYBER SECURITY ENGINEERING	İNSAN FAKTÖRLERİ VE SİBER GÜVENLİK	E	3	0	3	5		
CSE510	SENIOR ADVANCED DESIGN PROJECT I	KIDEMLİ İLERİ TASARIM PROJESİ I	C	3	0	3	5			CSE017	SYSTEM SECURITY AND RESILIENCE SYSTEM	GÜVENLİĞİ VE DAYANIKLILIĞI	E	3	2	4	5		
CSE015	EMBEDDED AND REAL TIME SYSTEMS	GÖMÜLÜ VE GERÇEK ZAMANLI SİSTEMLER	C	4	2	4	5			CSE018	MOBILE DEVICES AND NETWORK SECURITY	MOBİL CİHAZLAR VE AĞ GÜVENLİĞİ	C	4	2	4	5		
TE	TECHNICAL ELECTIVE	TEKNİK SEÇMELİ	E	2	2	3	5			TE	TECHNICAL ELECTIVE	TEKNİK SEÇMELİ	E	3	0	3	5		
TE	TECHNICAL ELECTIVE	TEKNİK SEÇMELİ	E	2	2	3	5			TE	TECHNICAL ELECTIVE	TEKNİK SEÇMELİ	E	3	0	3	5		

ELECTIVE COURSES

COURSE KOD	COURSE NAME	TURKISH NAME OF THE COURSE	T	P	C	E
AII431	E-COMMERCE	E-TİCARET	2	2	3	5
AII404	NEURAL NETWORKS	SİNİR AĞLARI	2	2	3	5
AII419	IMAGE PROCESSING	GÖRÜNTÜ İŞLEME	2	2	3	5
CSE417	MOBILE PROGRAMMING	MOBİL PROGRAMLAMA	2	2	3	5
AII415	DECISION MAKING	KARAR VERME	2	2	3	5
AII427	MANAGEMENT FOR ENGINEERS	MÜHENDİSLER İÇİN YÖNETİM	2	2	3	5
AII445	INTRODUCTION TO MACHINE LEARNING	MAKİNE ÖĞRENİMİNE GİRİŞ	2	2	3	5
CSE411	ADVANCED DATA ANALYSIS	GELİŞMİŞ VERİ ANALİZİ	2	2	3	5
CSE412	INFORMATION RETRIEVAL AND WEB SEARCH	BİLGİ EDİNME VE WEB ARAMA	2	2	3	5
CSE418	INTERNET PROGRAMMING	İNTERNET PROGRAMLAMA	2	2	3	5
CSE428	EGOVERNMENT	E-DEVLET	2	2	3	5
AII429	ENGINEERING ETHICS	MÜHENDİSLİK ETİĞİ	2	2	3	5
CSE430	PRINCIPLES OF INFORMATION SECURITY	BİLGİ GÜVENLİĞİ İLKELERİ	2	2	3	5
AII426	ECONOMICS FOR ENGINEERS	MÜHENDİSLER İÇİN EKONOMİ	2	2	3	5

8.2. Common Compulsory Courses Offered University-Wide

This section lists the common courses that are mandatory in all undergraduate programs at the university. These courses are offered in a standard format across all programs, in accordance with the principles determined by the Council of Higher Education (YÖK), and constitute a fundamental component of university education. A list of common courses offered throughout the university is provided below:

ENG101	ENGLISH I
MTH171	MATHEMATICS FOR BUSINESS AND ECONOMICS I
YİT101/TUR101	TURKISH FOR INTERNATIONAL STUDENTS I / TURKISH LANGUAGE I
CAM100	CAMPUS ORIENTATION
ENG102	ENGLISH II
MTH172	MATHEMATICS FOR BUSINESS AND ECONOMICS II
YİT102/TUR102	TURKISH FOR INTERNATIONAL STUDENTS II / TURKISH LANGUAGE II
GEC351	21st CENTURY SKILLS
MTH261	STATISTICS I
AİT101/AİT103	ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION I
CHC100	CYPRUS HISTORY AND CULTURE
MTH262	STATISTICS II
AİT102/AİT104	ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION II
CAR100	CAREER PLANNING

9. PRINCIPLES OF PROGRAM ASSESSMENT AND EVALUATION

9.1. Exam Rules

All information regarding exam rules, variety of assessment tools, etc., will be shared by the Assessment and Evaluation Coordination Office.

9.2. Letter Grade Conversion Table

This section presents the conversion table for the letter grades assigned to students for each course at the end of the semester, along with brief explanations of these grades. Students' academic performance is evaluated by the course instructor based on in-semester work and end-of-semester examination results. Letter grades are defined using coefficient values on a 4.00 scale and also correspond approximately to achievement ranges on a 100-point scale. This grading system serves as the basis for calculating the student's overall Grade Point Average (GPA).

The coefficients of the letter grades and their approximate equivalents on the 100-point scale are provided below.

Score	Letter Grade	Coefficient
90-100	AA	4
85-89	BA	3.5
80-84	BB	3
75-79	CB	2.5
70-74	CC	2
60-69	DC	1.5
50-59	DD	1
49 and below	FF	0

Additional Grades Provided Beyond the Above Letter Grades:

I–Incomplete, **S**–Satisfactory, **P**–Progressing, **EX**–Exempt, **W**–Withdrawn, **NA**–Absent

(I) Grade is assigned by the instructor to students who, due to illness or other valid reasons, are successful during the term but have not completed the requirements of the course. A student receiving an (I) grade must complete the missing requirements and obtain a grade within 15 days from the date the grades are submitted to the Student Affairs Office. Otherwise, the (I) grade automatically converts to (FF). However, in cases of prolonged illness or similar situations, the duration of the (I) grade may be extended until the beginning of the next registration term with the recommendation of the Department Chair and the approval of the Faculty Administrative Board.

(S) Grade is given to students who pass courses that are not included in the grade point average. The (S) grade is also given for courses previously taken and recognized as equivalent by the Faculty Administrative Board to students transferring from another university or re-enrolling via entrance exam. Students transferring from outside who are required to retake any course according to regulations cannot receive an (S) grade. The (S) grade is not included in GPA calculations.

(P) Grade is given to students who are continuing courses that are not included in GPA calculations.

(U) Grade is given to students who fail courses that are not included in GPA calculations.

(EX) Grade is given to students exempted from certain courses based on a departmental exemption exam as determined by the Senate. The (EX) grade is not included in GPA calculations but is shown on the transcript.

(W) Grade is used for a course withdrawn after the normal add/drop period within the first ten weeks of the term with the recommendation of the advisor and the permission of the instructor. The following rules apply:

(a) Students cannot withdraw from courses in the first two semesters of their undergraduate program.

(b) Students cannot withdraw from a course they are required to retake, previously received a (W) grade, or is not included in GPA. Withdrawal is not allowed if the student's course load falls below 2/3 of the normal load. A student may withdraw from a maximum of one course per term and up to six courses throughout their undergraduate education with advisor recommendation and instructor approval.

(NA) Grade is given to students who, despite being enrolled, do not attend the course.

I	Incomplete
S	Satisfactory Completion
U	Unsatisfactory
P	Successful Progress
NP	Not Successful Progress
EX	Exempt
NI	Not included

W	Withdrawal
NA	Never Attended

10. STUDENT ADMISSION AND REGISTRATION REQUIREMENTS

At Near East University, education is offered at the associate, undergraduate, and graduate levels. The primary language of instruction is Turkish; however, English or other languages may be used when deemed necessary. Examination and assessment procedures are governed by the relevant institutional regulations. Student admissions are carried out by the Student Affairs Office in accordance with the rules established by the University Senate. Admissions to preparatory, associate, and undergraduate programs for international students are conducted either through special examinations or, when applicable, without examination. Requirements for graduate program admissions and transfer students are defined in the respective regulations. Special students may enroll only in designated courses and are not eligible to receive a diploma. Admission and registration procedures for foreign students who are not citizens of the Turkish Republic of Northern Cyprus (TRNC) or the Republic of Türkiye are implemented according to the regulations titled “*Admission and Registration Conditions for Foreign Students Who Are Not Citizens of the Turkish Republic of Northern Cyprus or the Republic of Türkiye to Higher Education Institutions,*” enacted under Articles 65/2005, 21/2008, 40/2009, and 23/2007 of YÖDAK Law No. 11.

When necessary, prospective students may be admitted to a one-year scientific preparatory program. Registration is finalized once the required documents and tuition fees are submitted within the announced deadlines. Students are required to renew their registration at the beginning of each semester. The English proficiency levels of students in the preparatory program are determined through examinations, and preparatory education may continue for a maximum of two years.

All associate, undergraduate, and graduate programs within the Department of Cybersecurity Engineering are conducted in accordance with their respective regulations. Students may also enroll in courses aimed at acquiring teaching certification. Diplomas for associate, undergraduate, and graduate programs are awarded to students who successfully fulfill all program requirements. The issuance of diplomas and provisional graduation certificates is determined by Senate decisions.

Students’ grades are officially recorded, and certified transcripts or other academic documents are issued upon request. Tuition fees are non-refundable for students who voluntarily withdraw or cancel their registration.

Students may request a leave of absence for reasons related to health, military service, financial difficulties, or educational purposes; such periods are not counted toward the maximum duration of study. Students returning from leave must renew their registration before resuming their education. Academic advisors provide guidance to students throughout their studies.

Internship requirements, disciplinary procedures, scholarship opportunities, and access to health services are administered in accordance with the relevant institutional regulations.

11. HORIZONTAL AND VERTICAL TRANSFER OPPORTUNITIES

11.1. Horizontal Transfer Opportunities

This section outlines the procedures and principles governing horizontal transfer applications to the Department of Cybersecurity Engineering at Near East University. All horizontal transfer operations are carried out in accordance with the Near East University Horizontal Transfer and Credit Transfer Directive.

Students applying for horizontal transfer to the Department of Cybersecurity Engineering must satisfy the following conditions:

- They must not have any disciplinary sanctions.
- They must have a minimum cumulative grade point average of 2.00/4.00 or 60/100.
- They must have successfully completed a sufficient number of courses compatible with the curriculum of the program into which they seek to transfer.

For transfers based on centralized placement scores, applicants must meet the minimum score requirement of the relevant program for the year in which the application is made.

Applications must be submitted within the dates specified by the university, and all required documentation must be delivered in full to the relevant academic unit. Applications are evaluated based on the applicant's academic performance and the quota available in the program.

Decisions regarding:

- Course exemptions,
- Class equivalencies,

are made by the Faculty Executive Board upon the recommendation of the Department Chair. During this evaluation, particular attention is given to the compatibility of technical, computational, and departmental core courses.

Course equivalency assessments are based on the alignment between the course content previously completed by the applicant at their former higher education institution and the course content of the Department of Cybersecurity Engineering curriculum.

Applications for horizontal transfer submitted due to exceptional circumstances (such as war, natural disasters, health problems, etc.) are evaluated separately in accordance with the relevant legislation. In such cases, applicants may be required to submit additional supporting documents.

11.2. Vertical Transfer Opportunities

This section outlines the procedures and guiding principles for vertical transfer applications to the Near East University Department of Cybersecurity Engineering. Students applying for vertical

transfer are required to participate in the Vertical Transfer Exam (DGS) administered by the Assessment, Selection, and Placement Center (ÖSYM). Preferences are made based on the students' exam scores, and placements are carried out by ÖSYM accordingly.

12. RECOGNITION AND CREDIT TRANSFER OF PREVIOUS LEARNING

Students enrolled in the Near East University Cybersecurity Engineering Program may request exemption for courses they have successfully completed at previous higher education institutions until the end of the second week of the semester in which course registration occurs. Applications must be submitted in writing to the relevant academic unit and include approved course descriptions and an official transcript. For courses taken at foreign institutions, equivalency must be approved by the Higher Education Council (YÖK) for the exemption request to be accepted, and no exemptions are granted for students simultaneously enrolled in both an associate and a bachelor's degree program.

Exemption requests are evaluated by the departmental committee based on course content, credit hours, and the student's academic performance. Approved courses are recorded on the transcript with the corresponding letter grade and included in the cumulative GPA, while failed courses are not eligible for exemption. Certain common compulsory courses, such as Atatürk's Principles and History of Revolution, Turkish Language, and Foreign Language, may be exempted without credit equivalency, and students may take the exemption exam for these courses only once.

If the total ECTS credits of exempted courses exceed 70% of the semester's total ECTS credits, the student is placed into the next grade level. However, students placed into a higher class may not enroll in upper-level courses during the first academic year following placement. Objections to exemption and placement decisions may be submitted within two weeks of notification.

In cases of horizontal or vertical transfers, exemption requests are evaluated by the faculty or school board based on the recommendation of the departmental committee. Exemption from the foreign language preparatory class requires demonstrating the required level of proficiency through university-approved exam results.

13. INTERNATIONAL PROGRAMS AND EXCHANGE OPPORTUNITIES

Near East University (NEU) provides international exchange and internship opportunities for students in the Cybersecurity Engineering Department. These opportunities are primarily offered through the Europe-focused Erasmus+ Program, which enables students and academics to study and intern in European Union member countries. To participate in Erasmus+, students must have completed at least their first year, demonstrate a certain level of academic achievement, and provide proof of foreign language proficiency required by the program.

In addition, students in the department can participate in exchange programs and practical training through international student associations and collaborative networks in the field of computing and informatics. These programs offer research and hands-on internship opportunities. During summer terms, practical training sessions, joint research projects, and cultural activities are organized, allowing students to collaborate with peers from different countries.

Thanks to NEU's active partnerships with 114 universities across 44 countries, students in the Cybersecurity Engineering Department have the chance to study and intern abroad while also benefiting from an intercultural learning environment on the TRNC campus. NEU maintains reciprocal collaborations with higher education institutions in Europe, Asia, America, and Africa. Students can study for a semester or a full academic year, participate in internships, or join international research projects at partner universities.

Beyond Erasmus+, NEU also conducts student exchange programs through the Mevlana and Farabi Programs. The Mevlana Program offers reciprocal exchange opportunities with universities in Turkey, while the Farabi Program supports student exchanges among domestic universities. These programs allow students to enhance their academic knowledge and gain cultural insights by experiencing diverse cultures.

Throughout the process, the NEU International Office provides comprehensive support, starting from the application stage. Expert staff guide students on documentation, applications, accommodation, visas, and other practical matters, ensuring they are informed and supported at every step of the exchange process.

14. ACCREDITATION AND QUALITY ASSURANCE OF THE PROGRAM

14.1. Quality Policy

The Department of Cybersecurity Engineering adopts an educational philosophy that is committed to ethical values, innovation, research orientation, and societal benefit. The department's quality policy aims to establish a sustainable academic environment that encourages knowledge production, addresses societal needs, and equips its graduates with competencies to compete at both national and international levels. Within this framework, the department educates its students through contemporary curricula that foster analytical thinking, problem-solving, and lifelong learning skills, while contributing to the body of scientific knowledge through innovative projects in the fields of information systems, data science, and artificial intelligence. By collaborating with public institutions, private sector organizations, and international stakeholders, the department seeks to contribute to digital transformation and societal development. Embracing a culture of quality across all processes, the department pursues excellence through a continuous improvement approach.

14.2. Accreditation Process of the Program

The Bachelor's Program in Cybersecurity Engineering at Near East University has been accredited within the scope of ASIIN e.V., which holds the "Euro-Inf Quality Label" awarded by EQANIE (European Quality Assurance Network for Informatics Education). The program successfully completed its evaluation process, which began on December 11, 2015, and remained valid until September 30, 2021. During the accreditation, educational objectives, curriculum structure, systems demonstrating student learning outcomes, faculty qualifications, infrastructure, and stakeholder involvement were thoroughly examined. The program was found to comply fully with international standards in informatics education, receiving the Euro-Inf Quality Label from EQANIE and accreditation through ASIIN, recognized across engineering, informatics, and natural sciences education. Building on these international accreditations, the program continuously reviews and updates its curriculum, learning outcomes, and assessment methods within a framework of quality culture and continuous improvement.

14.3. Quality of Education

The Department of Cybersecurity Engineering regularly reviews its programs and course contents to enhance the quality of education and to cultivate graduates equipped with skills that meet contemporary requirements. Curricula are updated in line with technological and academic advancements in fields such as information systems, software engineering, data science, and artificial intelligence. Student feedback and recommendations from stakeholders are taken into account to introduce new courses and practical projects into the program. Courses and content that

have become outdated are removed, and educational processes are supported with modern teaching methods, laboratory work, and digital tools. This process is conducted under the coordination of the departmental academic board and with the participation of all relevant stakeholders in a transparent manner, thereby ensuring that the department continuously aims to provide high-quality education.

14.4. Research and Development Activities

The Department of Cybersecurity Engineering places significant emphasis on innovative and research-driven activities in line with its quality policies. These initiatives, aimed at enhancing the quality of the educational process, are carried out in fields such as artificial intelligence, data science, software engineering, information systems, and cybersecurity, and are shaped by the effective use of contemporary technologies and current academic developments. Research activities are designed to develop students' analytical thinking, problem-solving skills, and critical perspectives, and are supported with application-oriented projects. Additionally, the department encourages the development of projects in collaboration with national and international partners, thereby fostering a strong connection between theoretical knowledge and practical applications.

14.5. Continuous Improvement Process

The Cybersecurity Engineering Program conducts its educational processes with a continuous improvement approach within the framework of quality assurance. Course content, teaching methods, laboratory practices, and project activities are regularly reviewed based on feedback from students, graduates, and stakeholders. Using the data obtained, educational activities are updated, the curriculum is aligned with contemporary technological developments, and initiatives are planned to strengthen students' analytical thinking, problem-solving, and professional skills. This process is carried out systematically with the participation of the departmental academic board and relevant stakeholders.

15. GRADUATION REQUIREMENTS AND AWARDED DEGREE

15.1. Graduation Requirements

Graduation from the Near East University Cybersecurity Engineering Undergraduate Program requires completion of a total of 240 ECTS credits, including compulsory, core compulsory, elective courses, and the graduation project as specified in the curriculum. Students must also maintain a cumulative GPA of at least 2.00 and successfully complete the 45-working-day internship. Upon meeting all academic and administrative requirements, students are awarded a Bachelor's degree in Cybersecurity Engineering.

15.2. Awarded Degree

Students who successfully complete the Near East University Cybersecurity Engineering Undergraduate Program are awarded a Bachelor's degree in Cybersecurity Engineering. Graduates are conferred the title of "Cybersecurity Engineer."

16. DIPLOMA SUPPLEMENT



Diploma No:		Diploma Date: 2025				
1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION						
1.1. Family name(s):		1.3. Place and date of birth:				
1.2. Given name(s):		1.4. Student identification number:				
2. INFORMATION IDENTIFYING THE QUALIFICATION						
2.1. Name of the qualification and (if applicable) the title conferred BACHELOR OF SCIENCE, B.Sc.		2.2. Main field(s) of study for qualification				
2.3. Name and status of awarding institution NEAR EAST UNIVERSITY, PRIVATE UNIVERSITY		2.4. Name and type of institution administering studies SAME AS 2.3.				
2.5. Language(s) of instruction/examinations ENGLISH						
3. INFORMATION ON THE LEVEL OF THE QUALIFICATION						
3.1. Level of qualification First Cycle (Bachelor's Degree)		3.2. Official length of program Normally 4 Years, 2 semesters per year, 16 weeks per semester				
3.3. Access requirement(s) Admission of Turkish nationalities to higher education is based on a nation-wide Student Selection Examination (ÖSS) administered by the Higher Education Council of Turkey (YÖK). Admission of Turkish Republic of Northern Cyprus nationals is based on the Near East University Entrance and Placement Exam for Turkish Cypriots. Admission of foreign students is based on their high school credentials. Proof of English language proficiency is also required.						
4. INFORMATION ON THE CONTENTS AND RESULTS GAINED						
4.1. Mode of study Full-Time		4.2. Programme requirements A student is required to have a minimum CGPA of 2.00/4.00 and no failing grades (below DD).				
4.3. Objectives		4.4. Programme details and the individual grades/marks obtained Please see the next page.				
4.5. Grading scheme, grade translation and grade distribution guidance: For each course taken, the student is assigned one of the following grades by the course teacher. For A.Sc., B.Sc. or B.A. degrees, students must obtain at least DD or S from each course and have a GGPA of not less than 2.00 out of 4.00 and have completed all the courses and summer practices in the program. For graduate degrees, students must obtain at least CC or S from each course for M.Sc. and M.A., at least BB for Ph.D. They also need to have a GCPA of 3.00 to graduate. The student's standing is calculated in the form of a Graduate Point Average (GPA) and Cumulative Grade Point (CGPA) and is announced at the end of each semester by the Registrar's Office. The total credit points for a course are obtained by multiplying the coefficient of the final grade by the credit hours. In order to obtain the GPA for any given semester, the total credit points are divided by the total credit hours. The averages are given up to two decimal points. Students who obtain a CGPA of 3.00-3.49 at the end of a semester are considered as "Honour Students" and those who obtain a CGPA of 3.50-4.00 at the end of a semester are considered as "High Honour Students" and this is recorded in their academic report. The letter grades, the quality point equivalents are:						
Percentage	Course Coefficient	Grade	Percentage	Course Coefficient	Grade	
90-100	4	AA		70-74	2	CC
85-89	3.5	BA		60-69	1-1.5	DC
80-84	3	BB		50-59	0.5	DD
75-79	2.5	CB				
					49 and below	0
		FF				
I- Incomplete S- Satisfactory Completion, U-Unsatisfactory, NA-Never Attended, E-Exempted, W- Withdrawn						
4.6 Overall classification of the award				CGPA: /.....		
5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION						
5.1. Access to further study May apply to second cycle programmes.				5.2. Professional status conferred This degree enables the graduates to exercise the profession.		
6. ADDITIONAL INFORMATION						
6. 1. Additional information The department is accredited by ASIIN for maintaining high quality standards.				Faculty web site: https: Department web site : University web site http://www.neu.edu.tr The Council of Higher Education of Turkey http://www.yok.gov.tr		

4.4. Program details and the individual grade/marks obtained:

1 (1 st Semester)						2 (2 nd Semester)					
Course Code	Course Name	CR	ECTS	Status	Grade	Course Code	Course Name	CR	ECTS	Status	Grade
MTH113	LINEAR ALGEBRA	3	5			AI104	DISCRETE STRUCTURES	3	6		
AI102	PROGRAMMING AND PROBLEM SOLVING	4	5			ENG102	ENGLISH II	3	3		
ENG101	ENGLISH I	3	3			MTH102	CALCULUS II	4	6		
MTH101	CALCULUS I	4	5			PHY102	GENERAL PHYSICS II	4	6		
PHY101	GENERAL PHYSICS I	4	5			AI108	OBJECT ORIENTED PROGRAMMING	3	5		
CAM100	CAMPUS ORIENTATION	0	2			GEC351	21ST CENTURY SKILLS	0	2		
CHM101	GENERAL CHEMISTRY I	4	5			CAR100	CAREER PLANNING	0	2		
Toplam		22	30			Toplam		17	30		
3 (3 rd Semester)						4 (4 th Semester)					
Course Code	Course Name	CR	ECTS	Status	Grade	Course Code	Course Name	CR	ECTS	Status	Grade
AI1001	LOGIC DESIGN	4	6			AI1202	DATABASE MANAGEMENT SYSTEMS	4	5		
AI1201	DATA STRUCTURES& ALGORITHMS	4	6			CSE004	INTRODUCTION TO COMPUTATION AND PROGRAMMING	3	5		
CSE002	INTRODUCTION TO CYBER SECURITY ENGINEERING	3	3			CSE005	CRYPTOGRAPHY FUNDAMENTALS	3	4		
MTH201	DIFFERENTIAL EQUATIONS	4	6			MTH251	PROBABILITY AND STATISTICS	3	6		
CSE003	INTRODUCTION TO ENGINEERING	3	5			AIT104	ATATÜRK PRINCIPLES AND REFORMS II	2	2		
AIT103	ATATÜRK PRINCIPLES AND REFORMS I	2	2			YIT102	TURKISH FOR FOREIGNERS II	2	2		
YIT101	TURKISH FOR FOREIGNERS I	2	2			CSE299	SUMMER TRAINING I	0	6		
Toplam		22	30			Toplam		17	30		
5 (5 th Semester)						6 (6 th Semester)					
Course Code	Course Name	CR	ECTS	Status	Grade	Course Code	Course Name	CR	ECTS	Status	Grade
CSE006	INTRODUCTION TO COMPUTING FOR DIGITAL SYSTEMS ENGINEERING	3	4			CSE009	COMPUTER NETWORKING	3	5		
CSE007	RF SOFTWARE ENGINEERING	4	5			CSE010	SYSTEMS ENGINEERING	3	5		
CSE008	DATA COMMUNICATION	3	5			CSE011	POWER SYSTEMS AND SMART GRID SECURITY	4	6		
AI1302	OPERATING SYSTEMS	3	6			CSE012	TRANSPORTATION SYSTEMS DESIGN	4	6		
AI1439	OCCUPATIONAL HEALTH AND SAFETY I	2	4			AI1440	OCCUPATIONAL HEALTH AND SAFETY II	3	2		
ENG201	ORAL COMMUNICATION SKILLS	3	4			CSE399	SUMMER TRAINING II	0	6		
CHC100	CYPRUS HISTORY AND CULTURE	2	2			CSE009	COMPUTER NETWORKING	3	5		
Toplam		20	30			Toplam		17	30		
7 (7 th Semester)						8 (8 th Semester)					
Course Code	Course Name	CR	ECTS	Status	Grade	Course Code	Course Name	CR	ECTS	Status	Grade
CSE013	ENGINEERING SENIOR SEMINAR	4	5			CSE511	SENIOR ADVANCED DESIGN PROJECT II	3	5		
CSE014	INDUSTRIAL CONTROL SYSTEMS SECURITY	4	5			CSE016	HUMAN FACTORS AND CYBER SECURITY ENGINEERING	3	5		
CSE510	SENIOR ADVANCED DESIGN PROJECT I	3	5			CSE017	SYSTEM SECURITY AND RESILIENCE SYSTEM	4	5		
CSE015	EMBEDDED AND REAL TIME SYSTEMS	4	5			CSE018	MOBILE DEVICES AND NETWORK SECURITY	4	5		
TE	TECHNICAL ELECTIVE	3	5			TE	TECHNICAL ELECTIVE	3	5		
TE	TECHNICAL ELECTIVE	3	5			TE	TECHNICAL ELECTIVE	3	5		
Toplam		21	30			Toplam		16	30		

TOTAL CREDITS.. - ECTS 240

7. CERTIFICATION OF THE SUPPLEMENT

7.1. Date :
7.2. Name and Signature : Ümit Serdaroğlu
7.3. Capacity : Registrar
7.4. Official stamp or seal :

8. INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM

The basic structure of the North Cyprus Education System consists of four main stages as pre-school education, primary education, secondary education and higher education.

Pre-school education consists of non-compulsory programs whereas primary education is a compulsory 8 year program for all children beginning from the age of 6. The secondary education system includes “General High Schools” and “Vocational and Technical High Schools”.

The Higher Education System in North Cyprus is regulated by the Higher Education Planning, Evaluation, Accreditation and Coordination Council. Established in 1988, the Council regulates the activities of higher education institutions with respect to research, governing, planning and organization. The higher education institutions are established within the framework of the Higher Education Law. All programs of higher education should be accredited by the Higher Education Planning, Evaluation, Accreditation and Coordination Council.

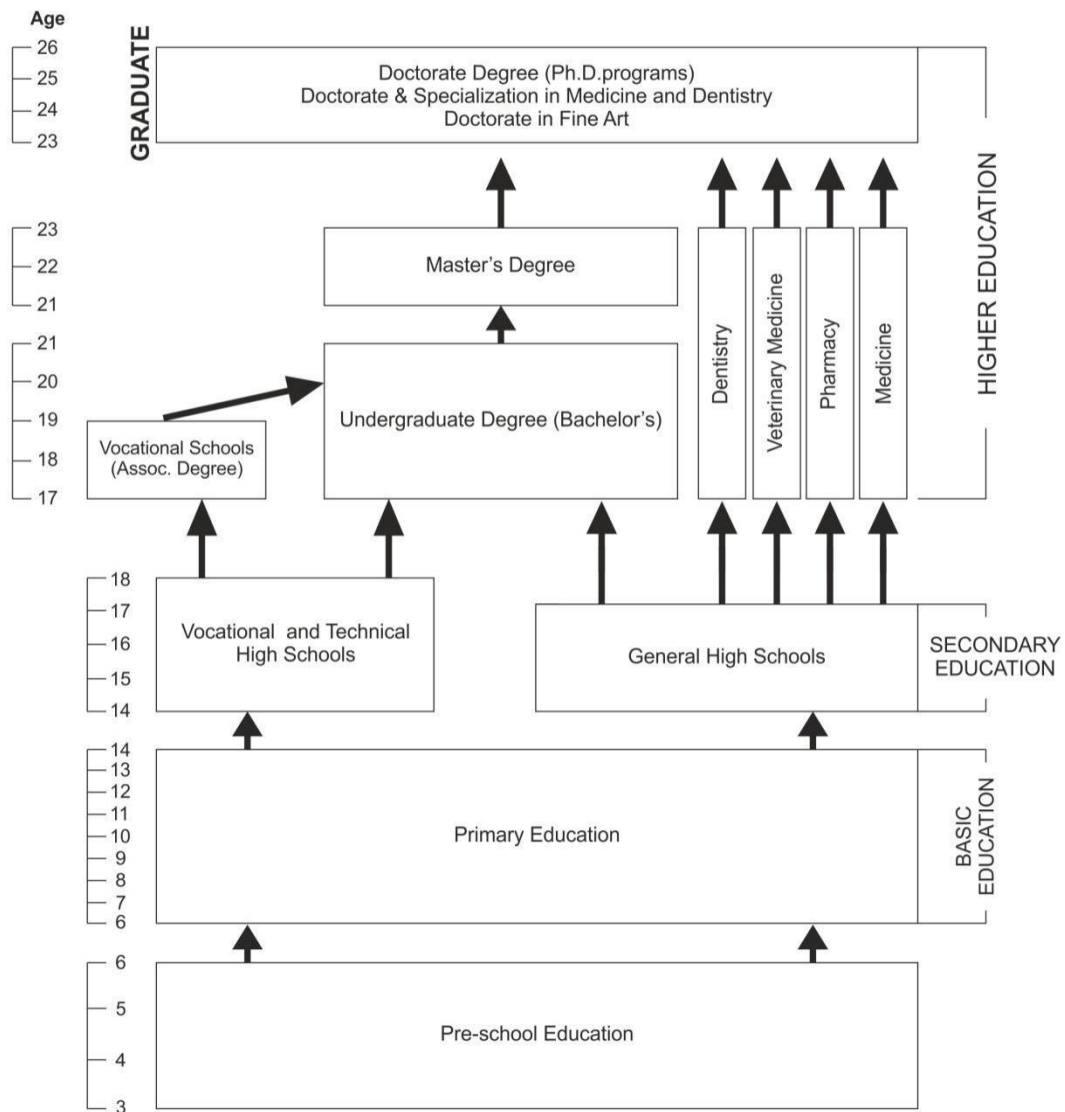
Higher education in North Cyprus comprises all post-secondary higher education programmes, consisting of short, first, second, and third cycle degrees in terms of terminology of the Bologna Process. The structure of North Cyprus higher education degrees is based on a two-tier system, except for dentistry, pharmacy, medicine and veterinary medicine programmes which have a one-tier system. The duration of these one-tier programmes is five years except for medicine which lasts six years. The qualifications in these one-tier programmes are equivalent to the first cycle (bachelor degree) plus secondary cycle (master degree) degree. Undergraduate level of study consists of short cycle (associate degree) and first cycle (bachelor degree) degrees which are awarded after the successful completion of full-time two-year and four-year study programmes, respectively.

Graduate level of study consists of second cycle (master degree) and third cycle (doctorate) degree programmes. Second cycle is divided into two sub-types named as master without thesis and master with thesis. Master programmes without thesis consists of courses and semester project. The master programmes with a thesis consist of courses, a seminar, and a thesis. Third cycle (doctorate) degree programmes consist of completion of courses, passing a qualifying examination and a doctoral thesis. Specializations in dentistry, accepted as equivalent to third cycle programmes are carried out within the faculties of dentistry. Specialization in medicine, accepted as equivalent to third cycle programmes are carried out within the faculties of medicine, and university hospitals and training hospitals operated by the Ministry of Health.

Universities consist of graduate schools (institutes) offering second cycle (master degree) and third cycle (doctorate) degree programmes, faculties offering first cycle (bachelor degree) programmes, four-year higher schools offering first cycle (bachelor degree) degree programmes with a vocational emphasis and two-year vocational schools offering short cycle (associate degree) degree programmes of strictly vocational nature.

Second cycle degree holders may apply to third cycle programmes if their performance at the first cycle degree level is exceptionally high and their national central Graduate Education Entrance Examination score is also high and their application is approved. The doctoral degree is conferred subject to at least one publication in a cited and refereed journal.

GENERAL STRUCTURE OF THE NORTH CYPRUS EDUCATION SYSTEM



17. EMPLOYMENT OPPORTUNITIES FOR GRADUATES AND ACCESS TO GRADUATE PROGRAMS

17.1. Employment Opportunities for Graduates

Graduates of the Cybersecurity Engineering Department have a wide range of employment opportunities in today's digitalized world. They can work in both public and private sectors in areas such as information technology, software development, data analysis, system administration, network security, and IT consulting. Additionally, they can take active roles in managing enterprise information systems, database design, web technologies, and automation solutions. Thanks to their ability to adapt to emerging technologies, graduates can pursue positions such as software specialist, systems analyst, network administrator, database manager, or IT consultant in both local and international companies. Moreover, with high entrepreneurial potential, they also have opportunities to develop their own IT projects and turn their business ideas into reality.

17.2. Access to Graduate Programs

Graduates of the Cybersecurity Engineering Department are eligible to apply for postgraduate and doctoral programs approved by the Higher Education Council (YÖK) after completing their undergraduate studies. Key fields for graduate education include computer science, software engineering, data analytics, artificial intelligence, and information systems management. These programs, offered in English, also accept international students, providing opportunities to study in a multicultural academic environment. Students are provided with guidance and information regarding admission requirements, program prerequisites, inter-university transfer possibilities, and scholarship opportunities. The postgraduate education process helps graduates deepen their professional knowledge and research skills, thereby enhancing both their academic and industry career prospects.

18. ADDITIONAL INFORMATION:

The Near East University Cybersecurity Engineering Program is structured according to contemporary technological and educational approaches and adopts an interdisciplinary model that aims to provide students with a comprehensive integration of theoretical knowledge and practical skills.

Distinctive Approach of the Program

The Department of Cybersecurity Engineering offers an interdisciplinary framework designed to provide a comprehensive understanding of information technology. The program emphasizes not only software development but also domains such as data management, system integration, network technologies, and IT strategies. This dual focus equips students with both engineering and managerial perspectives, enabling them to contribute effectively to all stages of digital transformation.

Experiential Learning and Project-Based Pedagogy

The program prioritizes the application of theoretical knowledge through practical engagement. Students participate in semester-long projects, laboratory exercises, and problem-solving courses that address authentic industry challenges. Furthermore, capstone projects conducted in collaboration with industrial partners allow students to acquire professional experience prior to graduation.

Industry Engagement and Career Development

The department maintains robust connections with organizations in the information technology sector, facilitating opportunities for internships, mentorship, and professional networking. Industry presentations and project competitions provide students with direct interaction with professionals, thereby enhancing both academic and industrial networks and improving post-graduation employability.

Technological Infrastructure and Learning Environment

The curriculum integrates contemporary technologies and tools to support applied learning. Students gain proficiency in programming languages including Python, Java, PHP, C#, and SQL, and work with platforms such as Linux, Docker, Git, TensorFlow, Power BI, and cloud computing environments. In addition, students engage in practical exercises in areas including big data analytics, artificial intelligence, machine learning, computer hardware, networking, and cybersecurity. State-of-the-art laboratory facilities, combined with a project-based pedagogical model, facilitate the translation of theoretical knowledge into practice. Educational activities are

also supported through the digital learning platform UZEBİM (<https://uzebim.neu.edu.tr/>), which provides access to online resources, project-sharing spaces, and interactive course materials.

International and Multicultural Academic Environment

The program is delivered in English and fosters a multicultural academic setting with students from diverse geographical and cultural backgrounds. This diversity enhances students' ability to operate effectively in the global information technology sector. In addition, international exchange programs offer students opportunities for academic and professional experiences abroad.

Graduate Achievements and Knowledge Sharing

Program graduates assume positions in national and international organizations as cybersecurity expert, software developers, systems analysts, data scientists, information security specialists, and project managers. Graduate achievements are showcased annually during “Alumni Meetings” and “Career Days in Informatics,” providing current students with exemplary role models and promoting a culture of knowledge sharing.

Continuous Professional Development and Lifelong Learning

The program continues to support graduates through the Alumni Tracking System, offering information on further education opportunities, certification programs, and career prospects. Additionally, departmental initiatives such as webinars, workshops, and advanced seminars in information technology facilitate graduates' adaptation to