



**Ministry of Higher Education and Scientific Research
Al-Farabi University
College of Technical Engineering
Department of Cybersecurity Engineering Techniques**

**Academic Program and Course Description Guide
Department of Cybersecurity Engineering Techniques**

Academic Year 2025-2026

Academic Program Description Form

University Name	Al-Farabi University
College / Institute	College of Technical Engineering
Scientific Department	Department of Cybersecurity Engineering Techniques
Academic or Professional Program Name	Bachelor of Cybersecurity Engineering Techniques
Final Certificate Name	Bachelor in Cybersecurity Engineering Techniques
Academic System	Bologna Process
Description Preparation Date	27 March 2026
File Completion Date	27 March 2026

Head of Department Name: <u>DR. Ahmed Hussein</u> Signature: _____ Date: <u>21 / 6 / 2026</u> Quality Assurance and University Performance Division Reviewed by: <u>Prof. Dr. Hanaa Hammoud</u> Division Manager Name: _____ Signature: _____ Date: ____ / ____ / 2026	Scientific Associate Name: <u>DR. Ahmed Hussein</u> Signature: _____ Date: <u>21 / 6 / 2026</u> Dean's Approval <u>Approved</u> Dean of the College: <u>Assoc Prof Dr Mazen Alalsh</u> Signature: _____ Date: <u>20 / 6 / 2026</u>
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1. Program Vision

The Department of Cybersecurity Engineering Techniques at the College of Technical Engineering, Al-Farabi University, seeks to become a leading academic center nationally and regionally in education, research, and training in cybersecurity.

2. Program Mission

The department provides advanced engineering education that combines theoretical foundations with practical applications in cybersecurity, preparing graduates with skills in threat analysis, incident response, secure systems, and network protection.

3. Program Objectives

- Prepare graduates able to work professionally in cybersecurity, network security, and information-systems security.
- Develop skills in cyber-threat analysis, incident response, penetration testing, and digital-forensics basics.
- Promote ethical, legal, and responsible practice in information security.
- Support applied research, laboratory training, graduation projects, and professional development.

4. Program Accreditation

Under conformity review.

5. External Influences / Factors

Twinning with Middle Technical University / Electrical Engineering Technical College / Department of Cybersecurity Engineering Techniques.

6. Program Structure

Structure	Courses	Study Units	Percentage	Notes
Institution Requirements	6	12	8%	Core course
College Requirements	8	12	10%	
Department Requirements	55	120	82%	
Summer Training	2	2		

7. Program Description - Extracted Courses

Year / Level	Code	Course	Hours / Units	SWL
First Level / Semester 1	CSET1102	Introduction to Information System	6	150
First Level / Semester 1	CSET1104	Mathematics I	4	63
First Level / Semester 1	CSET1105	Engineering Drawing	4	125
First Level / Semester 1	CSET1105	Democracy and Human Rights	2	50
First Level / Semester 1	CSET1104	Programming Essentials	5	150
First Level / Semester 1	CSET1102	Fundamentals of Electrical Engineering	4	100
First Level / Semester 1	CSET1102	Ethics for the Information Age	4	100
First Level / Semester 2	CSET1201	Digital Logic Design	5	150
First Level / Semester 2	CSET1204	Mathematics II	5	150
First Level / Semester 2	EEET101	Engineering Workshops	4	125
First Level / Semester 2	CSET1203	General Physics	4	125
First Level / Semester 2	CSTE1207	English Language - Beginner	2	50
First Level / Semester 2	CSET1206	Arabic Language	2	50

8. Program Intended Learning Outcomes

Knowledge

- Recognize cybersecurity threats and attack types.
- Understand methods for protecting systems, networks, and databases.
- Understand penetration testing, incident response, and secure systems concepts.

Skills

- Use cybersecurity tools to monitor systems and detect threats.
- Secure databases, networks, and access permissions.
- Analyze incidents, document findings, and recommend mitigation actions.

Values

- Appreciate the importance of information security, ethical behavior, confidentiality, and responsible use of security technologies.

9. Teaching, Learning, and Assessment Strategies

- Blended learning through online and in-person instruction.
- Scientific films, videos, laboratories, professional training, summer training, and graduation projects.
- Weekly, monthly, daily, and final-year examinations.

10. Academic Staff

Academic Rank	General Specialization	Specific Specialization	Count / Status
Professor	History	Abbasid History	6 staff / 2 lecturers
Lecturer PhD	Computer Engineering Technologies	Communications and Information Systems Engineering	
Assistant Lecturer MSc	Computer Science	Artificial Intelligence	
Assistant Lecturer MSc	Computer Engineering	Artificial Intelligence	
Assistant Lecturer MSc	Computer Science	Cybersecurity / Computing	

11. Admission and Program Development

Admission is through central admission.

Key information sources include department files, the curriculum approved by the Ministry of Higher Education and Scientific Research, quality and academic performance committee recommendations, and the official Al-Farabi University website.

- Update laboratory software.
- Use modern sources and references.
- Strengthen practical cybersecurity laboratory work and professional tools.

Course Description - CSET1102 Introduction to Information System			
Course Name	Introduction to Information System	Course Code	CSET1102
Semester / Year	First Level / Semester 1	Attendance	Compulsory
Preparation Date	27 March 2026	Hours / Units	6
Total Student Workload	150	Academic Year	2025-2026
Course Instructor	To be assigned by the department	Delivery	Lecture / laboratory / blended learning

Course Objectives

- Develop students' knowledge and applied competence in Introduction to Information System.
- Connect theoretical concepts with cybersecurity, computing, or engineering applications.
- Build analytical, laboratory, reporting, teamwork, and ethical-practice skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	6	Knowledge and applied skill	Information systems overview	Questions / practical task / quiz
2	6	Knowledge and applied skill	Hardware and software	Questions / practical task / quiz
3	6	Knowledge and applied skill	Databases	Questions / practical task / quiz
4	6	Knowledge and applied skill	Networks	Questions / practical task / quiz
5	6	Knowledge and applied skill	Security basics	Questions / practical task / quiz
6	6	Knowledge and applied skill	Information systems overview	Questions / practical task / quiz
7	6	Knowledge and applied skill	Hardware and software	Questions / practical task / quiz
8	6	Knowledge and applied skill	Databases	Questions / practical task / quiz
9	6	Knowledge and applied skill	Networks	Questions / practical task / quiz
10	6	Knowledge and applied skill	Security basics	Questions / practical task / quiz
11	6	Knowledge and applied skill	Information systems overview	Questions / practical task / quiz
12	6	Knowledge and applied skill	Hardware and software	Questions / practical task / quiz
13	6	Knowledge and applied skill	Databases	Questions / practical task / quiz
14	6	Knowledge and applied skill	Networks	Questions / practical task / quiz
15	6	Knowledge and applied skill	Security basics	Questions / practical task / quiz

Course Description - CSET1104 Mathematics I			
Course Name	Mathematics I	Course Code	CSET1104
Semester / Year	First Level / Semester 1	Attendance	Compulsory
Preparation Date	27 March 2026	Hours / Units	4
Total Student Workload	63	Academic Year	2025-2026
Course Instructor	To be assigned by the department	Delivery	Lecture / laboratory / blended learning

Course Objectives

- Develop students' knowledge and apply competence in Mathematics I.
- Connect theoretical concepts with cybersecurity, computing, or engineering applications.
- Build analytical, laboratory, reporting, teamwork, and ethical-practice skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	4	Knowledge and applied skill	Functions	Questions / practical task / quiz
2	4	Knowledge and applied skill	Limits	Questions / practical task / quiz
3	4	Knowledge and applied skill	Derivatives/integrals	Questions / practical task / quiz
4	4	Knowledge and applied skill	Matrices or series	Questions / practical task / quiz
5	4	Knowledge and applied skill	Applications	Questions / practical task / quiz
6	4	Knowledge and applied skill	Functions	Questions / practical task / quiz
7	4	Knowledge and applied skill	Limits	Questions / practical task / quiz
8	4	Knowledge and applied skill	Derivatives/integrals	Questions / practical task / quiz
9	4	Knowledge and applied skill	Matrices or series	Questions / practical task / quiz
10	4	Knowledge and applied skill	Applications	Questions / practical task / quiz
11	4	Knowledge and applied skill	Functions	Questions / practical task / quiz
12	4	Knowledge and applied skill	Limits	Questions / practical task / quiz
13	4	Knowledge and applied skill	Derivatives/integrals	Questions / practical task / quiz
14	4	Knowledge and applied skill	Matrices or series	Questions / practical task / quiz
15	4	Knowledge and applied skill	Applications	Questions / practical task / quiz

Course Description - CSET1105 Engineering Drawing			
Course Name	Engineering Drawing	Course Code	CSET1105
Semester / Year	First Level / Semester 1	Attendance	Compulsory
Preparation Date	27 March 2026	Hours / Units	4
Total Student Workload	125	Academic Year	2025-2026
Course Instructor	To be assigned by the department	Delivery	Lecture / laboratory / blended learning

Course Objectives

- Develop students' knowledge and apply competence in Engineering Drawing.
- Connect theoretical concepts with cybersecurity, computing, or engineering applications.
- Build analytical, laboratory, reporting, teamwork, and ethical-practice skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	4	Knowledge and applied skill	Engineering drawing basics	Questions / practical task / quiz
2	4	Knowledge and applied skill	AutoCAD interface	Questions / practical task / quiz
3	4	Knowledge and applied skill	Drawing tools	Questions / practical task / quiz
4	4	Knowledge and applied skill	Dimensions	Questions / practical task / quiz
5	4	Knowledge and applied skill	Technical sheets	Questions / practical task / quiz
6	4	Knowledge and applied skill	Engineering drawing basics	Questions / practical task / quiz
7	4	Knowledge and applied skill	AutoCAD interface	Questions / practical task / quiz
8	4	Knowledge and applied skill	Drawing tools	Questions / practical task / quiz
9	4	Knowledge and applied skill	Dimensions	Questions / practical task / quiz
10	4	Knowledge and applied skill	Technical sheets	Questions / practical task / quiz
11	4	Knowledge and applied skill	Engineering drawing basics	Questions / practical task / quiz
12	4	Knowledge and applied skill	AutoCAD interface	Questions / practical task / quiz
13	4	Knowledge and applied skill	Drawing tools	Questions / practical task / quiz
14	4	Knowledge and applied skill	Dimensions	Questions / practical task / quiz
15	4	Knowledge and applied skill	Technical sheets	Questions / practical task / quiz

Course Description - CSET1105 Democracy and Human Rights			
Course Name	Democracy and Human Rights	Course Code	CSET1105
Semester / Year	First Level / Semester 1	Attendance	Compulsory
Preparation Date	27 March 2026	Hours / Units	2
Total Student Workload	50	Academic Year	2025-2026
Course Instructor	To be assigned by the department	Delivery	Lecture / laboratory / blended learning

Course Objectives

- Develop students' knowledge and apply competence in Democracy and Human Rights.
- Connect theoretical concepts with cybersecurity, computing, or engineering applications.
- Build analytical, laboratory, reporting, teamwork, and ethical-practice skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	2	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
2	2	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
3	2	Knowledge and applied skill	Discussion	Questions / practical task / quiz
4	2	Knowledge and applied skill	Exercises	Questions / practical task / quiz
5	2	Knowledge and applied skill	Final review	Questions / practical task / quiz
6	2	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
7	2	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
8	2	Knowledge and applied skill	Discussion	Questions / practical task / quiz
9	2	Knowledge and applied skill	Exercises	Questions / practical task / quiz
10	2	Knowledge and applied skill	Final review	Questions / practical task / quiz
11	2	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
12	2	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
13	2	Knowledge and applied skill	Discussion	Questions / practical task / quiz
14	2	Knowledge and applied skill	Exercises	Questions / practical task / quiz
15	2	Knowledge and applied skill	Final review	Questions / practical task / quiz

Course Description - CSET1104 Programming Essentials			
Course Name	Programming Essentials	Course Code	CSET1104
Semester / Year	First Level / Semester 1	Attendance	Compulsory
Preparation Date	27 March 2026	Hours / Units	5
Total Student Workload	150	Academic Year	2025-2026
Course Instructor	To be assigned by the department	Delivery	Lecture / laboratory / blended learning

Course Objectives

- Develop students' knowledge and apply competence in Programming Essentials.
- Connect theoretical concepts with cybersecurity, computing, or engineering applications.
- Build analytical, laboratory, reporting, teamwork, and ethical-practice skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	5	Knowledge and applied skill	Programming concepts	Questions / practical task / quiz
2	5	Knowledge and applied skill	Variables and data types	Questions / practical task / quiz
3	5	Knowledge and applied skill	Control structures	Questions / practical task / quiz
4	5	Knowledge and applied skill	Functions	Questions / practical task / quiz
5	5	Knowledge and applied skill	Applied coding exercises	Questions / practical task / quiz
6	5	Knowledge and applied skill	Programming concepts	Questions / practical task / quiz
7	5	Knowledge and applied skill	Variables and data types	Questions / practical task / quiz
8	5	Knowledge and applied skill	Control structures	Questions / practical task / quiz
9	5	Knowledge and applied skill	Functions	Questions / practical task / quiz
10	5	Knowledge and applied skill	Applied coding exercises	Questions / practical task / quiz
11	5	Knowledge and applied skill	Programming concepts	Questions / practical task / quiz
12	5	Knowledge and applied skill	Variables and data types	Questions / practical task / quiz
13	5	Knowledge and applied skill	Control structures	Questions / practical task / quiz
14	5	Knowledge and applied skill	Functions	Questions / practical task / quiz
15	5	Knowledge and applied skill	Applied coding exercises	Questions / practical task / quiz

Course Description - CSET1102 Fundamentals of Electrical Engineering			
Course Name	Fundamentals of Electrical Engineering	Course Code	CSET1102
Semester / Year	First Level / Semester 1	Attendance	Compulsory
Preparation Date	27 March 2026	Hours / Units	4
Total Student Workload	100	Academic Year	2025-2026
Course Instructor	To be assigned by the department	Delivery	Lecture / laboratory / blended learning

Course Objectives

- Develop students' knowledge and apply competence in Fundamentals of Electrical Engineering.
- Connect theoretical concepts with cybersecurity, computing, or engineering applications.
- Build analytical, laboratory, reporting, teamwork, and ethical-practice skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	4	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
2	4	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
3	4	Knowledge and applied skill	Discussion	Questions / practical task / quiz
4	4	Knowledge and applied skill	Exercises	Questions / practical task / quiz
5	4	Knowledge and applied skill	Final review	Questions / practical task / quiz
6	4	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
7	4	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
8	4	Knowledge and applied skill	Discussion	Questions / practical task / quiz
9	4	Knowledge and applied skill	Exercises	Questions / practical task / quiz
10	4	Knowledge and applied skill	Final review	Questions / practical task / quiz
11	4	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
12	4	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
13	4	Knowledge and applied skill	Discussion	Questions / practical task / quiz
14	4	Knowledge and applied skill	Exercises	Questions / practical task / quiz
15	4	Knowledge and applied skill	Final review	Questions / practical task / quiz

Course Description - CSET1102 Ethics for the Information Age			
Course Name	Ethics for the Information Age	Course Code	CSET1102
Semester / Year	First Level / Semester 1	Attendance	Compulsory
Preparation Date	27 March 2026	Hours / Units	4
Total Student Workload	100	Academic Year	2025-2026
Course Instructor	To be assigned by the department	Delivery	Lecture / laboratory / blended learning

Course Objectives

- Develop students' knowledge and applied competence in Ethics for the Information Age.
- Connect theoretical concepts with cybersecurity, computing, or engineering applications.
- Build analytical, laboratory, reporting, teamwork, and ethical-practice skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	4	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
2	4	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
3	4	Knowledge and applied skill	Discussion	Questions / practical task / quiz
4	4	Knowledge and applied skill	Exercises	Questions / practical task / quiz
5	4	Knowledge and applied skill	Final review	Questions / practical task / quiz
6	4	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
7	4	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
8	4	Knowledge and applied skill	Discussion	Questions / practical task / quiz
9	4	Knowledge and applied skill	Exercises	Questions / practical task / quiz
10	4	Knowledge and applied skill	Final review	Questions / practical task / quiz
11	4	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
12	4	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
13	4	Knowledge and applied skill	Discussion	Questions / practical task / quiz
14	4	Knowledge and applied skill	Exercises	Questions / practical task / quiz
15	4	Knowledge and applied skill	Final review	Questions / practical task / quiz

Course Description - CSET1201 Digital Logic Design			
Course Name	Digital Logic Design	Course Code	CSET1201
Semester / Year	First Level / Semester 2	Attendance	Compulsory
Preparation Date	27 March 2026	Hours / Units	5
Total Student Workload	150	Academic Year	2025-2026
Course Instructor	To be assigned by the department	Delivery	Lecture / laboratory / blended learning

Course Objectives

- Develop students' knowledge and apply competence in Digital Logic Design.
- Connect theoretical concepts with cybersecurity, computing, or engineering applications.
- Build analytical, laboratory, reporting, teamwork, and ethical-practice skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	5	Knowledge and applied skill	Number systems	Questions / practical task / quiz
2	5	Knowledge and applied skill	Logic gates	Questions / practical task / quiz
3	5	Knowledge and applied skill	Boolean algebra	Questions / practical task / quiz
4	5	Knowledge and applied skill	Combinational circuits	Questions / practical task / quiz
5	5	Knowledge and applied skill	Sequential circuits	Questions / practical task / quiz
6	5	Knowledge and applied skill	Number systems	Questions / practical task / quiz
7	5	Knowledge and applied skill	Logic gates	Questions / practical task / quiz
8	5	Knowledge and applied skill	Boolean algebra	Questions / practical task / quiz
9	5	Knowledge and applied skill	Combinational circuits	Questions / practical task / quiz
10	5	Knowledge and applied skill	Sequential circuits	Questions / practical task / quiz
11	5	Knowledge and applied skill	Number systems	Questions / practical task / quiz
12	5	Knowledge and applied skill	Logic gates	Questions / practical task / quiz
13	5	Knowledge and applied skill	Boolean algebra	Questions / practical task / quiz
14	5	Knowledge and applied skill	Combinational circuits	Questions / practical task / quiz
15	5	Knowledge and applied skill	Sequential circuits	Questions / practical task / quiz

Course Description - CSET1204 Mathematics II			
Course Name	Mathematics II	Course Code	CSET1204
Semester / Year	First Level / Semester 2	Attendance	Compulsory
Preparation Date	27 March 2026	Hours / Units	5
Total Student Workload	150	Academic Year	2025-2026
Course Instructor	To be assigned by the department	Delivery	Lecture / laboratory / blended learning

Course Objectives

- Develop students' knowledge and apply competence in Mathematics II.
- Connect theoretical concepts with cybersecurity, computing, or engineering applications.
- Build analytical, laboratory, reporting, teamwork, and ethical-practice skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	5	Knowledge and applied skill	Functions	Questions / practical task / quiz
2	5	Knowledge and applied skill	Limits	Questions / practical task / quiz
3	5	Knowledge and applied skill	Derivatives/integrals	Questions / practical task / quiz
4	5	Knowledge and applied skill	Matrices or series	Questions / practical task / quiz
5	5	Knowledge and applied skill	Applications	Questions / practical task / quiz
6	5	Knowledge and applied skill	Functions	Questions / practical task / quiz
7	5	Knowledge and applied skill	Limits	Questions / practical task / quiz
8	5	Knowledge and applied skill	Derivatives/integrals	Questions / practical task / quiz
9	5	Knowledge and applied skill	Matrices or series	Questions / practical task / quiz
10	5	Knowledge and applied skill	Applications	Questions / practical task / quiz
11	5	Knowledge and applied skill	Functions	Questions / practical task / quiz
12	5	Knowledge and applied skill	Limits	Questions / practical task / quiz
13	5	Knowledge and applied skill	Derivatives/integrals	Questions / practical task / quiz
14	5	Knowledge and applied skill	Matrices or series	Questions / practical task / quiz
15	5	Knowledge and applied skill	Applications	Questions / practical task / quiz

Course Description - EEET101 Engineering Workshops			
Course Name	Engineering Workshops	Course Code	EEET101
Semester / Year	First Level / Semester 2	Attendance	Compulsory
Preparation Date	27 March 2026	Hours / Units	4
Total Student Workload	125	Academic Year	2025-2026
Course Instructor	To be assigned by the department	Delivery	Lecture / laboratory / blended learning

Course Objectives

- Develop students' knowledge and applied competence in Engineering Workshops.
- Connect theoretical concepts with cybersecurity, computing, or engineering applications.
- Build analytical, laboratory, reporting, teamwork, and ethical-practice skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	4	Knowledge and applied skill	Workshop safety	Questions / practical task / quiz
2	4	Knowledge and applied skill	Tools	Questions / practical task / quiz
3	4	Knowledge and applied skill	Electrical practice	Questions / practical task / quiz
4	4	Knowledge and applied skill	Measurements	Questions / practical task / quiz
5	4	Knowledge and applied skill	Practical exercises	Questions / practical task / quiz
6	4	Knowledge and applied skill	Workshop safety	Questions / practical task / quiz
7	4	Knowledge and applied skill	Tools	Questions / practical task / quiz
8	4	Knowledge and applied skill	Electrical practice	Questions / practical task / quiz
9	4	Knowledge and applied skill	Measurements	Questions / practical task / quiz
10	4	Knowledge and applied skill	Practical exercises	Questions / practical task / quiz
11	4	Knowledge and applied skill	Workshop safety	Questions / practical task / quiz
12	4	Knowledge and applied skill	Tools	Questions / practical task / quiz
13	4	Knowledge and applied skill	Electrical practice	Questions / practical task / quiz
14	4	Knowledge and applied skill	Measurements	Questions / practical task / quiz
15	4	Knowledge and applied skill	Practical exercises	Questions / practical task / quiz

Course Description - CSET1203 General Physics			
Course Name	General Physics	Course Code	CSET1203
Semester / Year	First Level / Semester 2	Attendance	Compulsory
Preparation Date	27 March 2026	Hours / Units	4
Total Student Workload	125	Academic Year	2025-2026
Course Instructor	To be assigned by the department	Delivery	Lecture / laboratory / blended learning

Course Objectives

- Develop students' knowledge and applied competence in General Physics.
- Connect theoretical concepts with cybersecurity, computing, or engineering applications.
- Build analytical, laboratory, reporting, teamwork, and ethical-practice skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	4	Knowledge and applied skill	Measurements	Questions / practical task / quiz
2	4	Knowledge and applied skill	Motion	Questions / practical task / quiz
3	4	Knowledge and applied skill	Electricity basics	Questions / practical task / quiz
4	4	Knowledge and applied skill	Waves	Questions / practical task / quiz
5	4	Knowledge and applied skill	Applications	Questions / practical task / quiz
6	4	Knowledge and applied skill	Measurements	Questions / practical task / quiz
7	4	Knowledge and applied skill	Motion	Questions / practical task / quiz
8	4	Knowledge and applied skill	Electricity basics	Questions / practical task / quiz
9	4	Knowledge and applied skill	Waves	Questions / practical task / quiz
10	4	Knowledge and applied skill	Applications	Questions / practical task / quiz
11	4	Knowledge and applied skill	Measurements	Questions / practical task / quiz
12	4	Knowledge and applied skill	Motion	Questions / practical task / quiz
13	4	Knowledge and applied skill	Electricity basics	Questions / practical task / quiz
14	4	Knowledge and applied skill	Waves	Questions / practical task / quiz
15	4	Knowledge and applied skill	Applications	Questions / practical task / quiz

Course Description - CSTE1207 English Language - Beginner			
Course Name	English Language - Beginner	Course Code	CSTE1207
Semester / Year	First Level / Semester 2	Attendance	Compulsory
Preparation Date	27 March 2026	Hours / Units	2
Total Student Workload	50	Academic Year	2025-2026
Course Instructor	To be assigned by the department	Delivery	Lecture / laboratory / blended learning

Course Objectives

- Develop students' knowledge and applied competence in English Language - Beginner.
- Connect theoretical concepts with cybersecurity, computing, or engineering applications.
- Build analytical, laboratory, reporting, teamwork, and ethical-practice skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	2	Knowledge and applied skill	Technical vocabulary	Questions / practical task / quiz
2	2	Knowledge and applied skill	Reading	Questions / practical task / quiz
3	2	Knowledge and applied skill	Writing	Questions / practical task / quiz
4	2	Knowledge and applied skill	Speaking	Questions / practical task / quiz
5	2	Knowledge and applied skill	Reports	Questions / practical task / quiz
6	2	Knowledge and applied skill	Technical vocabulary	Questions / practical task / quiz
7	2	Knowledge and applied skill	Reading	Questions / practical task / quiz
8	2	Knowledge and applied skill	Writing	Questions / practical task / quiz
9	2	Knowledge and applied skill	Speaking	Questions / practical task / quiz
10	2	Knowledge and applied skill	Reports	Questions / practical task / quiz
11	2	Knowledge and applied skill	Technical vocabulary	Questions / practical task / quiz
12	2	Knowledge and applied skill	Reading	Questions / practical task / quiz
13	2	Knowledge and applied skill	Writing	Questions / practical task / quiz
14	2	Knowledge and applied skill	Speaking	Questions / practical task / quiz
15	2	Knowledge and applied skill	Reports	Questions / practical task / quiz

Course Description - CSET1206 Arabic Language			
Course Name	Arabic Language	Course Code	CSET1206
Semester / Year	First Level / Semester 2	Attendance	Compulsory
Preparation Date	27 March 2026	Hours / Units	2
Total Student Workload	50	Academic Year	2025-2026
Course Instructor	To be assigned by the department	Delivery	Lecture / laboratory / blended learning

Course Objectives

- Develop students' knowledge and applied competence in Arabic Language.
- Connect theoretical concepts with cybersecurity, computing, or engineering applications.
- Build analytical, laboratory, reporting, teamwork, and ethical-practice skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	2	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
2	2	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
3	2	Knowledge and applied skill	Discussion	Questions / practical task / quiz
4	2	Knowledge and applied skill	Exercises	Questions / practical task / quiz
5	2	Knowledge and applied skill	Final review	Questions / practical task / quiz
6	2	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
7	2	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
8	2	Knowledge and applied skill	Discussion	Questions / practical task / quiz
9	2	Knowledge and applied skill	Exercises	Questions / practical task / quiz
10	2	Knowledge and applied skill	Final review	Questions / practical task / quiz
11	2	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
12	2	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
13	2	Knowledge and applied skill	Discussion	Questions / practical task / quiz
14	2	Knowledge and applied skill	Exercises	Questions / practical task / quiz
15	2	Knowledge and applied skill	Final review	Questions / practical task / quiz