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

Academic Program and Course Description Guide
Department of Electrical 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 Electrical Engineering Technologies
Academic or Professional Program Name	Bachelor of Electrical Engineering Technologies
Final Certificate Name	Bachelor in Electrical Engineering Technologies
Academic System	Semester System / Bologna Process
Description Preparation Date	21 February 2026
File Completion Date	21 February 2026

Head of Department Name: Dr. Yasmeen Fawzi Azeez Signature: Date: 20 / 6 / 2026	Scientific Associate Name: Dr. Ahmed Hussein Signature: Date: 20 / 6 / 2026
Quality Assurance and University Performance Division Reviewed by: Prof. Dr. Hanaa Hammood Division Manager Name: Signature: Date: ___ / ___ / 2026	Dean's Approval Approved Dean of the College: Assoc. Prof. Dr. Mazin Abdulrasool Signature: Date: 20 / 6 / 2026

1. Program Vision

Leadership in keeping pace with rapid scientific developments in electrical engineering fields by preparing engineering cadres with the required knowledge competence and applied skills.

2. Program Mission

The department is committed to building distinguished engineering competencies in electric power specialization by providing students with scientific and technical skills that contribute to community service and meet labor-market needs.

3. Program Objectives

- Prepare highly competent engineers able to compete and excel in electrical power technologies.
- Strengthen the technical side through practical units, laboratory work, and training programs.
- Develop students' ability to design, implement, test, maintain, and troubleshoot electrical systems.
- Promote teamwork, professional communication, safety culture, and applied problem solving.

4. Program Accreditation

None, because the department is newly established.

5. External Influences / Factors

Middle Technical University / Engineering Technical College / Department of Electrical Engineering Technologies.

6. Program Structure

Structure	Courses	Study Units	Percentage	Notes
Institution Requirements	6	14	11.7%	Secondary courses
College Requirements	6	30	11.7%	Core courses
Department Requirements	37	196	70.5%	Core courses
Summer Training	None			
Other	None			

7. Program Description - First Stage Courses

Year / Level	Code	Course	Theory	Practical	Total Hours
First Stage / Semester 1	EET1101	DC Circuits	3	2	5
First Stage / Semester 1	EET1102	Digital Techniques	3	2	5
First Stage / Semester 1	EET1103	Engineering Drawing	-	4	4
First Stage / Semester 1	EET1104	Differential Mathematics	5	-	5
First Stage / Semester 1	EET1105	Engineering Workshops	-	4	4
First Stage / Semester 1	EET1202	Human Rights and Democracy	1	-	1
First Stage / Semester 1	EET1106	English Language - Preliminary Level	1	-	1
First Stage / Semester 2	EET1201	Engineering Mechanics	5	2	7
First Stage / Semester 2	EET1203	Arabic Language	3	-	3
First Stage / Semester 2	EET1204	AC Circuits	6	2	8
First Stage / Semester 2	EET1205	Integral Mathematics	5	-	5
First Stage / Semester 2	EET1206	Computer Fundamentals	3	2	5

8. Program Intended Learning Outcomes

Knowledge

- Perform mathematical calculations and design electrical circuits using computer tools.
- Diagnose faults and conduct maintenance and repair for electrical stations and equipment.
- Understand economic feasibility for projects in the specialization.

Skills

- Design electrical circuits.
- Conduct non-destructive analyses and tests for electrical equipment.
- Perform experiments and failure testing.
- Work safely in laboratories and field environments.

Values and Communication

- Share ideas, work in teams, communicate professionally, and transfer knowledge in the workplace.

9. Teaching, Learning, and Assessment Strategies

- Theoretical lectures using modern teaching tools.
- Practical lessons in equipped laboratories.
- Seminars, group work, projects, self-learning, field/laboratory training, and interactive e-learning.
- Assessment through quizzes, homework, reports, laboratory work, midterm examinations, and final theoretical and practical examinations.

10. Academic Staff

Academic Rank	General Specialization	Specific Specialization	Count / Status
Assistant Professor	Electronics and Communications Engineering	Communications Engineering	1 staff
Lecturer	English Language	Methods	1 lecturer
Lecturer	Computer Science	Cybersecurity	1 lecturer
Assistant Lecturer	Computer Science	Image Processing	1 staff
Assistant Lecturer	Computer Science	Artificial Intelligence	1 staff
Assistant Lecturer	Computer Engineering and	Artificial Intelligence	1 staff

	Informatics		
Assistant Lecturer	Computer Engineering and Communication Networks	Artificial Intelligence and Robotics	1 staff
Assistant Lecturer	Remote Sensing and GIS	Geographic Information Systems	1 staff
Assistant Lecturer	Arabic Language	Rhetoric	1 staff

11. Professional Development and Admission

The department orients new faculty members, provides technical and office support, updates scientific references, measures annual performance, and encourages training, research, and curriculum development.

Admission follows the central admission mechanism of the Ministry of Higher Education and Scientific Research / Private University Education Department. Required documents include certified academic records, civil ID or unified card, residence card or confirmation, six personal photos, and the application receipt.

12. Program Development Plan

- Increase use of educational technologies.
- Develop and review the program and courses.
- Encourage scientific research and teamwork.
- Develop scientific and professional skills of faculty members.

Course Description - EET1101 DC Circuits			
Course Name	DC Circuits	**Course Code**	EET1101
Semester / Year	First Stage / Semester 1	**Attendance**	Compulsory
Preparation Date	21 February 2026	**Total Hours**	5
Theory	3	**Practical**	2
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in DC Circuits.
- Connect theory with laboratory or engineering applications.
- Build analytical, practical, communication, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	5	Knowledge and applied skill	Electrical quantities	Questions / practical task / quiz
2	5	Knowledge and applied skill	Ohm's law	Questions / practical task / quiz
3	5	Knowledge and applied skill	Series and parallel circuits	Questions / practical task / quiz
4	5	Knowledge and applied skill	Network theorems	Questions / practical task / quiz
5	5	Knowledge and applied skill	DC circuit applications	Questions / practical task / quiz
6	5	Knowledge and applied skill	Electrical quantities	Questions / practical task / quiz
7	5	Knowledge and applied skill	Ohm's law	Questions / practical task / quiz
8	5	Knowledge and applied skill	Series and parallel circuits	Questions / practical task / quiz
9	5	Knowledge and applied skill	Network theorems	Questions / practical task / quiz
10	5	Knowledge and applied skill	DC circuit applications	Questions / practical task / quiz
11	5	Knowledge and applied skill	Electrical quantities	Questions / practical task / quiz
12	5	Knowledge and applied skill	Ohm's law	Questions / practical task / quiz
13	5	Knowledge and applied skill	Series and parallel circuits	Questions / practical task / quiz
14	5	Knowledge and applied skill	Network theorems	Questions / practical task / quiz
15	5	Knowledge and applied skill	DC circuit applications	Questions / practical task / quiz

Course Description - EET1102 Digital Techniques			
Course Name	Digital Techniques	**Course Code**	EET1102
Semester / Year	First Stage / Semester 1	**Attendance**	Compulsory
Preparation Date	21 February 2026	**Total Hours**	5
Theory	3	**Practical**	2
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Digital Techniques.
- Connect theory with laboratory or engineering applications.
- Build analytical, practical, communication, and safety 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 - EET1103 Engineering Drawing			
Course Name	Engineering Drawing	**Course Code**	EET1103
Semester / Year	First Stage / Semester 1	**Attendance**	Compulsory
Preparation Date	21 February 2026	**Total Hours**	4
Theory	-	**Practical**	4
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Engineering Drawing.
- Connect theory with laboratory or engineering applications.
- Build analytical, practical, communication, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	4	Knowledge and applied skill	Engineering drawing tools	Questions / practical task / quiz
2	4	Knowledge and applied skill	Geometric construction	Questions / practical task / quiz
3	4	Knowledge and applied skill	Projection	Questions / practical task / quiz
4	4	Knowledge and applied skill	Electrical symbols	Questions / practical task / quiz
5	4	Knowledge and applied skill	Technical sheets	Questions / practical task / quiz
6	4	Knowledge and applied skill	Engineering drawing tools	Questions / practical task / quiz
7	4	Knowledge and applied skill	Geometric construction	Questions / practical task / quiz
8	4	Knowledge and applied skill	Projection	Questions / practical task / quiz
9	4	Knowledge and applied skill	Electrical symbols	Questions / practical task / quiz
10	4	Knowledge and applied skill	Technical sheets	Questions / practical task / quiz
11	4	Knowledge and applied skill	Engineering drawing tools	Questions / practical task / quiz
12	4	Knowledge and applied skill	Geometric construction	Questions / practical task / quiz
13	4	Knowledge and applied skill	Projection	Questions / practical task / quiz
14	4	Knowledge and applied skill	Electrical symbols	Questions / practical task / quiz
15	4	Knowledge and applied skill	Technical sheets	Questions / practical task / quiz

Course Description - EET1104 Differential Mathematics			
Course Name	Differential Mathematics	**Course Code**	EET1104
Semester / Year	First Stage / Semester 1	**Attendance**	Compulsory
Preparation Date	21 February 2026	**Total Hours**	5
Theory	5	**Practical**	-
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Differential Mathematics.
- Connect theory with laboratory or engineering applications.
- Build analytical, practical, communication, and safety 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 or integrals	Questions / practical task / quiz
4	5	Knowledge and applied skill	Applications	Questions / practical task / quiz
5	5	Knowledge and applied skill	Engineering problem solving	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 or integrals	Questions / practical task / quiz
9	5	Knowledge and applied skill	Applications	Questions / practical task / quiz
10	5	Knowledge and applied skill	Engineering problem solving	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 or integrals	Questions / practical task / quiz
14	5	Knowledge and applied skill	Applications	Questions / practical task / quiz
15	5	Knowledge and applied skill	Engineering problem solving	Questions / practical task / quiz

Course Description - EET1105 Engineering Workshops			
Course Name	Engineering Workshops	**Course Code**	EET1105
Semester / Year	First Stage / Semester 1	**Attendance**	Compulsory
Preparation Date	21 February 2026	**Total Hours**	4
Theory	-	**Practical**	4
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Engineering Workshops.
- Connect theory with laboratory or engineering applications.
- Build analytical, practical, communication, and safety 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	Hand tools	Questions / practical task / quiz
3	4	Knowledge and applied skill	Electrical wiring	Questions / practical task / quiz
4	4	Knowledge and applied skill	Measurement tools	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	Hand tools	Questions / practical task / quiz
8	4	Knowledge and applied skill	Electrical wiring	Questions / practical task / quiz
9	4	Knowledge and applied skill	Measurement tools	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	Hand tools	Questions / practical task / quiz
13	4	Knowledge and applied skill	Electrical wiring	Questions / practical task / quiz
14	4	Knowledge and applied skill	Measurement tools	Questions / practical task / quiz
15	4	Knowledge and applied skill	Practical exercises	Questions / practical task / quiz

Course Description - EET1202 Human Rights and Democracy			
Course Name	Human Rights and Democracy	**Course Code**	EET1202
Semester / Year	First Stage / Semester 1	**Attendance**	Compulsory
Preparation Date	21 February 2026	**Total Hours**	1
Theory	1	**Practical**	-
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Human Rights and Democracy.
- Connect theory with laboratory or engineering applications.
- Build analytical, practical, communication, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	1	Knowledge and applied skill	Sinusoidal waveforms	Questions / practical task / quiz
2	1	Knowledge and applied skill	Impedance	Questions / practical task / quiz
3	1	Knowledge and applied skill	RLC circuits	Questions / practical task / quiz
4	1	Knowledge and applied skill	Power in AC circuits	Questions / practical task / quiz
5	1	Knowledge and applied skill	AC circuit analysis	Questions / practical task / quiz
6	1	Knowledge and applied skill	Sinusoidal waveforms	Questions / practical task / quiz
7	1	Knowledge and applied skill	Impedance	Questions / practical task / quiz
8	1	Knowledge and applied skill	RLC circuits	Questions / practical task / quiz
9	1	Knowledge and applied skill	Power in AC circuits	Questions / practical task / quiz
10	1	Knowledge and applied skill	AC circuit analysis	Questions / practical task / quiz
11	1	Knowledge and applied skill	Sinusoidal waveforms	Questions / practical task / quiz
12	1	Knowledge and applied skill	Impedance	Questions / practical task / quiz
13	1	Knowledge and applied skill	RLC circuits	Questions / practical task / quiz
14	1	Knowledge and applied skill	Power in AC circuits	Questions / practical task / quiz
15	1	Knowledge and applied skill	AC circuit analysis	Questions / practical task / quiz

Course Description - EET1106 English Language - Preliminary Level			
Course Name	English Language - Preliminary Level	**Course Code**	EET1106
Semester / Year	First Stage / Semester 1	**Attendance**	Compulsory
Preparation Date	21 February 2026	**Total Hours**	1
Theory	1	**Practical**	-
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in English Language - Preliminary Level.
- Connect theory with laboratory or engineering applications.
- Build analytical, practical, communication, and safety skills.

Course Structure

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

Course Description - EET1201 Engineering Mechanics			
Course Name	Engineering Mechanics	**Course Code**	EET1201
Semester / Year	First Stage / Semester 2	**Attendance**	Compulsory
Preparation Date	21 February 2026	**Total Hours**	7
Theory	5	**Practical**	2
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Engineering Mechanics.
- Connect theory with laboratory or engineering applications.
- Build analytical, practical, communication, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	7	Knowledge and applied skill	Statics	Questions / practical task / quiz
2	7	Knowledge and applied skill	Forces	Questions / practical task / quiz
3	7	Knowledge and applied skill	Moments	Questions / practical task / quiz
4	7	Knowledge and applied skill	Friction	Questions / practical task / quiz
5	7	Knowledge and applied skill	Applications	Questions / practical task / quiz
6	7	Knowledge and applied skill	Statics	Questions / practical task / quiz
7	7	Knowledge and applied skill	Forces	Questions / practical task / quiz
8	7	Knowledge and applied skill	Moments	Questions / practical task / quiz
9	7	Knowledge and applied skill	Friction	Questions / practical task / quiz
10	7	Knowledge and applied skill	Applications	Questions / practical task / quiz
11	7	Knowledge and applied skill	Statics	Questions / practical task / quiz
12	7	Knowledge and applied skill	Forces	Questions / practical task / quiz
13	7	Knowledge and applied skill	Moments	Questions / practical task / quiz
14	7	Knowledge and applied skill	Friction	Questions / practical task / quiz
15	7	Knowledge and applied skill	Applications	Questions / practical task / quiz

Course Description - EET1203 Arabic Language			
Course Name	Arabic Language	**Course Code**	EET1203
Semester / Year	First Stage / Semester 2	**Attendance**	Compulsory
Preparation Date	21 February 2026	**Total Hours**	3
Theory	3	**Practical**	-
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Arabic Language.
- Connect theory with laboratory or engineering applications.
- Build analytical, practical, communication, and safety skills.

Course Structure

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

Course Description - EET1204 AC Circuits			
Course Name	AC Circuits	**Course Code**	EET1204
Semester / Year	First Stage / Semester 2	**Attendance**	Compulsory
Preparation Date	21 February 2026	**Total Hours**	8
Theory	6	**Practical**	2
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in AC Circuits.
- Connect theory with laboratory or engineering applications.
- Build analytical, practical, communication, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	8	Knowledge and applied skill	Sinusoidal waveforms	Questions / practical task / quiz
2	8	Knowledge and applied skill	Impedance	Questions / practical task / quiz
3	8	Knowledge and applied skill	RLC circuits	Questions / practical task / quiz
4	8	Knowledge and applied skill	Power in AC circuits	Questions / practical task / quiz
5	8	Knowledge and applied skill	AC circuit analysis	Questions / practical task / quiz
6	8	Knowledge and applied skill	Sinusoidal waveforms	Questions / practical task / quiz
7	8	Knowledge and applied skill	Impedance	Questions / practical task / quiz
8	8	Knowledge and applied skill	RLC circuits	Questions / practical task / quiz
9	8	Knowledge and applied skill	Power in AC circuits	Questions / practical task / quiz
10	8	Knowledge and applied skill	AC circuit analysis	Questions / practical task / quiz
11	8	Knowledge and applied skill	Sinusoidal waveforms	Questions / practical task / quiz
12	8	Knowledge and applied skill	Impedance	Questions / practical task / quiz
13	8	Knowledge and applied skill	RLC circuits	Questions / practical task / quiz
14	8	Knowledge and applied skill	Power in AC circuits	Questions / practical task / quiz
15	8	Knowledge and applied skill	AC circuit analysis	Questions / practical task / quiz

Course Description - EET1205 Integral Mathematics			
Course Name	Integral Mathematics	**Course Code**	EET1205
Semester / Year	First Stage / Semester 2	**Attendance**	Compulsory
Preparation Date	21 February 2026	**Total Hours**	5
Theory	5	**Practical**	-
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Integral Mathematics.
- Connect theory with laboratory or engineering applications.
- Build analytical, practical, communication, and safety 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 or integrals	Questions / practical task / quiz
4	5	Knowledge and applied skill	Applications	Questions / practical task / quiz
5	5	Knowledge and applied skill	Engineering problem solving	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 or integrals	Questions / practical task / quiz
9	5	Knowledge and applied skill	Applications	Questions / practical task / quiz
10	5	Knowledge and applied skill	Engineering problem solving	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 or integrals	Questions / practical task / quiz
14	5	Knowledge and applied skill	Applications	Questions / practical task / quiz
15	5	Knowledge and applied skill	Engineering problem solving	Questions / practical task / quiz

Course Description - EET1206 Computer Fundamentals			
Course Name	Computer Fundamentals	**Course Code**	EET1206
Semester / Year	First Stage / Semester 2	**Attendance**	Compulsory
Preparation Date	21 February 2026	**Total Hours**	5
Theory	3	**Practical**	2
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Computer Fundamentals.
- Connect theory with laboratory or engineering applications.
- Build analytical, practical, communication, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	5	Knowledge and applied skill	Computer basics	Questions / practical task / quiz
2	5	Knowledge and applied skill	Operating systems	Questions / practical task / quiz
3	5	Knowledge and applied skill	Office tools	Questions / practical task / quiz
4	5	Knowledge and applied skill	Spreadsheets	Questions / practical task / quiz
5	5	Knowledge and applied skill	Engineering applications	Questions / practical task / quiz
6	5	Knowledge and applied skill	Computer basics	Questions / practical task / quiz
7	5	Knowledge and applied skill	Operating systems	Questions / practical task / quiz
8	5	Knowledge and applied skill	Office tools	Questions / practical task / quiz
9	5	Knowledge and applied skill	Spreadsheets	Questions / practical task / quiz
10	5	Knowledge and applied skill	Engineering applications	Questions / practical task / quiz
11	5	Knowledge and applied skill	Computer basics	Questions / practical task / quiz
12	5	Knowledge and applied skill	Operating systems	Questions / practical task / quiz
13	5	Knowledge and applied skill	Office tools	Questions / practical task / quiz
14	5	Knowledge and applied skill	Spreadsheets	Questions / practical task / quiz
15	5	Knowledge and applied skill	Engineering applications	Questions / practical task / quiz