

# CURRICULUM MAJOR: ELECTRICAL AND ELECTRONICS ENGINEERING TECHNOLOGY

(Issued under Decision No. 2454/QĐ-DCT dated October 10, 2020,  
by the Rector of Ho Chi Minh City University of Food Industry)

## 1. INSTITUTIONAL IDENTIFICATION AND PROGRAM OVERVIEW

- **Program Name (Vietnamese):** Công nghệ kỹ thuật điện, điện tử
  - **Program Name (English):** Electrical and Electronics Engineering Technology
  - **Training Level:** Undergraduate
  - **Program Code:** 7510301
  - **Training Type:** Full-time; Work-study
  - **Managing Faculty:** Electrical and Electronics Engineering Technology
  - **Issuance Date:** 2020 (Issued under Decision No. 2454/QĐ-DCT)
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## 2. TRAINING OBJECTIVES

**2.1. General Objectives** To train human resources with good moral qualities and applied thinking capabilities in the field of Electrical and Electronics Engineering Technology to meet the requirements of socio-economic development, national defense, security, and international integration.

**2.2. Specific Objectives** Graduates shall possess the following knowledge, skills, autonomy, and responsibility:

### a. Knowledge

- Application of basic knowledge in social sciences, natural sciences, politics, law, and information technology.
- Specialized knowledge in the field of Electrical and Electronics Engineering Technology.

### b. Skills

- Creative thinking skills, professional skills, and communication skills to solve applied problems related to the electrical and electronic sectors.

### c. Autonomy and Responsibility

- Ability to work independently, organize teamwork, and provide critical arguments for personal perspectives regarding the electrical and electronic fields.
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### 3. PROGRAM LEARNING OUTCOMES (PLOs)

Code	Learning Outcome Topic	Competency Level (CL)
<b>1</b>	<b>Knowledge</b>	
PLO1	Apply fundamental and specialized knowledge to the electrical and electronics field	5
PLO1.1	Apply basic mathematics and physics to analyze and calculate electrical/electronic systems	3
PLO1.2	Apply core engineering knowledge to analyze, calculate, and design electrical/electronic systems	3
PLO1.3	Analyze, replace, operate, and maintain equipment, production lines, and automated systems	4
PLO1.4	Calculate, evaluate, design, and improve technologies for industrial equipment and systems	5
PLO2	Apply basic knowledge of social sciences, political science, and law	3
PLO2.1	Apply physical education for health and defense/security knowledge for national protection	3
PLO2.2	Apply basic political science and law knowledge to life and professional work	3
PLO2.3	Apply basic social science knowledge to work and life	3
PLO3	Use information technology to meet job requirements in electrical and electronics	5
PLO3.1	Apply information technology knowledge to professional tasks	4
PLO3.2	Apply programming languages and specialized software in the engineering field	5
PLO4	Plan, organize, and supervise activities in the electrical and electronics field	4
PLO4.1	Plan and organize activities in the electrical and electronics sector	4
PLO4.2	Supervise activities within the electrical and electronics sector	4
PLO5	Apply management and operational knowledge in the electrical and electronics field	5
PLO5.1	Manage and operate construction, maintenance, and system improvement activities	4
PLO5.2	Manage and operate design activities and project supervision	5
<b>2</b>	<b>Skills</b>	
PLO6	Proficiently perform professional skills in the electrical and electronics field	5
PLO6.1	Participate in scientific research activities within the field	3
PLO6.2	Coordinate operation, inspection, and repair of production line equipment	4
PLO6.3	Calculate, design, plan, and program for electrical and electronic systems	5
PLO7	Combine leadership and entrepreneurial skills in the field	5

PLO7.1	Search for and create employment opportunities for oneself	5
PLO7.2	Lead, start a business, and create jobs for others in the sector	5
PLO8	System-level reasoning and flexible problem-solving	5
PLO8.1	Critically evaluate implementation results and perspectives	5
PLO8.2	Use alternative and improved solutions flexibly	5
PLO9	Evaluate work performance in the electrical and electronics field	5
PLO9.1	Evaluate the quality of individual work within a group	5
PLO9.2	Evaluate the task performance of other individuals in the group	5
PLO10	Communicate and transfer electrical and electronics knowledge to others	4
PLO10.1	Communicate, share, and disseminate knowledge in the field	3
PLO10.2	Coordinate presentation and explanation skills for professional issues	4
PLO11	Use foreign languages for work, communication, and technical documentation	3
PLO11.1	Basic communication in English	3
PLO11.2	Read and understand technical documentation in English	3
<b>3</b>	<b>Autonomy and Responsibility</b>	
PLO12	Work independently and in groups; take individual and group responsibility	5
PLO12.1	Build individual work plans and perform tasks independently	5
PLO12.2	Evaluate and synthesize group information and organize group work	5
PLO13	Deploy, implement, and supervise activities related to the field	5
PLO13.1	Deploy and guide tasks for others to perform	5
PLO13.2	Monitor and evaluate the work performance of others	5
PLO14	Conceptualize and establish design requirements for systems	5
PLO14.1	Independently form ideas and propose design requirements	5
PLO14.2	Defend personal perspectives on proposed ideas	5
PLO15	Plan effective resource use and management in activities	5
PLO15.1	Plan, coordinate, and manage resources	5
PLO15.2	Evaluate and improve the effectiveness of activities	5

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#### 4. COURSE-TO-PLO CORRELATION MATRIX

No.	Course Code	Internal Code	Course Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	0101100651	11200001	Marxist-Leninist Philosophy		3										3			
2	0101002298	11200002	Marxist-Leninist Political Economy		3										3			



38	0101000005	02200001	Electrical & Electronic Safety	3													3	4		
39	0101005019	02201101	Basic Electrical Practice						3			3							3	
40	0101100944	01201250	Programming in Engineering			3		3										3		
41	0101002124	02200044	Electrical Apparatus	3					3									3		
42	0101100839	02203001	Project 1					3		3							3	3		3
43	0101000387	02201001	CAD in Electrical Engineering			3				3								3		3
44	0101000391	02201040	CAD in Electronic Engineering			3			3											3
45	0101006911	02200079	Elec. Dist. Equipment	3					3											3
46	0101100840	02201114	Integrated Control Prog.			3			3									3		
47	0101003239	02200031	Electric Machines	3												5				5
48	0101007966	02201031	Electric Machines Exp.							4						5				5
49	0101006231	02200093	Electrical Installation	4					4									4	4	4
50	0101100841	02201093	Electrical Install. Practice							3								4		4
51	0101003072	02200094	Automatic Control Theory	5														3		3
52	0101005040	02201094	Automatic Control Practice																3	5
53	0101100842	02202001	PLC							4								4		4
54	0101001274	02200007	Power Electronics	3												3			3	
55	0101005031	02201007	Power Electronics Practice	4						4								3		3
56	0101007968	02200100	Power Elec. (Wind/Solar)	4					4							3	3			3
57	0101003868	02200080	Energy Management					4				4								4
58	0101000385	02200102	IoT			3											3			4
59	0101100843	02202002	Microcontrollers			3			3									3		
60	0101100844	02201116	Advanced Microcontrollers			4			4									4		
61	0101007290	02200085	Digital Signal Processing			4			4									4		
62	0101001282	02200064	Advanced Electronics	4					4											4
63	0101100838	02200108	Technical English															3	3	4
64	0101100845	02203002	Project 2						3									3	3	3
65	0101006673	02200022	Biomedical Electronics	3													3			3
66	0101006429	02200067	Elec./Elec. Materials	3														3		5
67	0101001783	02200061	SCADA Systems					4				4								4
68	0101006907	02200014	Lighting Technology	3														3		4
69	0101001588	02201105	Computer-Based Ctrl/Meas			5												4		4
70	0101007253	02201103	Ind. Line Control Prac							4								4		5
71	0101006899	02200033	Power Supply Networks	3												2				3
72	0101100848	02201123	Substation/Line Design	4					4											4

73	0101006249	02200036	Electrical Drives	4				4									4			
74	0101100884	02201036	Electrical Drives Practice	3				3									3	3		
75	0101001774	02200105	Power Systems	3													4	4		
76	0101007967	02201124	Power Systems Exp.	4				4	4			4					4	4		
77	0101100847	02203003	Elec. Specialization Project					4		4			4	4				4		
78	0101100850	02200109	Relay Protection	3				4									4	4		
79	0101006787	02201079	Network Analysis on PC			4						4						4		
80	0101100849	02201117	Compliant Electrical Design			4						4						3		
81	0101100852	02200110	Advanced Digital Tech	5								5						5		
82	0101100853	02201110	Adv. Digital Tech Practice			5												5		
83	0101100851	02200111	Robot Engineering	4								4						4		
84	0101100854	02200112	IC Design	5				4										5		
85	0101100855	02201112	IC Design Practice							4						5		4		
86	0101100856	02201119	Embedded System Design			4							5					4		
87	0101100857	02203004	Electronic Spec. Project	4				4	4									4		
88	0101004024	02200030	Optoelectronics	4				4										4		
89	0101100858	02201120	Applied Electronics							4		4						4		
90	0101100859	02201121	Image Processing	4				4										4		
91	0101003763	02201106	Advanced PLC							5		5						5		
92	0101100863	02200122	Intelligent Ctrl Systems		2			5										4		
93	0101100862	02200211	Smart Grid	4				4				3						3		
94	0101100846	02204020	Internship (Bachelor)			3			4	4			4					4		
95	0101100860	02204021	Engineer Internship					4		5				5				5		
96	0101100861	02206001	Graduation Thesis			5		5		5								5		
<b>Sum</b>			<b>Courses meeting each PLO</b>	<b>39</b>	<b>20</b>	<b>16</b>	<b>8</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>18</b>	<b>21</b>	<b>13</b>	<b>14</b>	<b>6</b>	<b>3</b>	<b>10</b>	<b>21</b>	<b>11</b>

**5. TOTAL KNOWLEDGE VOLUME AND ADMISSION REQUIREMENTS**

No.	Knowledge Block	Credits	Percentage
1	General Education	36	23.84%
2	Fundamental / Core Knowledge	37	24.50%
3	Specialized Knowledge - Phase 1: Bachelor's	48	31.79%
4	Specialized Knowledge - Phase 2: Engineer's	30	19.87%
	<b>Total</b>	<b>151</b>	<b>100%</b>

**Admission Requirements:** Graduates of High School or equivalent.

## 6. TRAINING PROCESS, GRADUATION CONDITIONS, AND EVALUATION

- **English Language Proficiency:** Graduates must achieve a B1 certificate according to the 6-level Vietnamese framework or a minimum TOEIC score of 450 (Decision No. 1092/QĐ-DCT).
  - **Information Technology Proficiency:** Graduates must achieve a Basic IT Application Certificate (Decision No. 1093/QĐ-DCT).
  - **Evaluation:** Conducted according to the Credit-based Training Regulations (Decision No. 1603/QĐ-DCT dated August 23, 2017).
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## 7. TRAINING DURATION, DEGREES, AND CAREER OPPORTUNITIES

- **Training Duration:**
    - Bachelor's Phase (Phase 1): 3.5 years.
    - Engineer's Phase (Phases 1 & 2): 4.0 years.
  - **Degrees Conferred:**
    - Bachelor of Electrical and Electronics Engineering Technology.
    - Engineer of Electrical and Electronics Engineering Technology.
  - **Career Opportunities:**
    - Design Engineer or Technical Commercial Consultant.
    - Technical Maintenance Specialist; Supervisor/Researcher for installation and production projects.
    - Academic staff at colleges and intermediate vocational schools.
  - **Post-Graduate Education:** Graduates can pursue Master's degrees in Electrical or Electronic Engineering or second degrees in other fields.
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## 8. DETAILED TRAINING PROGRAM CONTENT

*Note: (a) Previous Study; (b) Prerequisite; (c) Co-requisite.*

No.	Course Code	Internal Code	Course Name	Credits (T, P)	Conditions	Sem
<b>I</b>	<b>GENERAL EDUCATION</b>		<b>36 Credits</b>			
1	0101100651	11200001	Marxist-Leninist Philosophy	3(3,0)		1
2	0101002298	11200002	Marxist-Leninist Political Economy	2(2,0)	11200001 (a)	2
3	0101000476	11200003	Scientific Socialism	2(2,0)	11200002 (a)	5
4	0101006322	11200005	Ho Chi Minh Ideology	2(2,0)	11200001 (a)	7
5	0101001625	11200004	History of the VN Communist Party	2(2,0)	11200001 (a)	6
6	0101100822	14200201	English 1	3(3,0)		2
7	0101100823	14200202	English 2	3(3,0)	14200201 (a)	3
8	0101100824	14200203	English 3	3(3,0)	14200202 (a)	4
9	0101007557	01202010	IT Application Skills	3(1,2)		1

10	0101003671	11200006	General Law	2(2,0)		3
11	0101006144	15200001	Advanced Mathematics A1	3(3,0)		1
12	0101006195	15200010	Engineering Mathematics	2(2,0)	15200001 (a)	2
13	0101100816	15200019	General Physics	2(2,0)		2
14	16201001	16201001	Physical Education 1	0	Non-acc.	2
15	16201002	16201002	Physical Education 2	0	Non-acc.	3
16	16201003	16201003	Physical Education 3	0	Non-acc.	4
17	0101001657	16200004	National Defense Education 1	0	Non-acc.	1
18	0101001661	16200005	National Defense Education 2	0	Non-acc.	2
19	0101001673	16200006	National Defense Education 3	0	Non-acc.	3
20	0101001676	16200007	National Defense Education 4	0	Non-acc.	4
21	0101003909	13200008	Business Administration (Group A)	2(2,0)	Elective	6
22	0101003931	13200001	Management Theory (Group A)	2(2,0)	Elective	6
23	0101003848	13200007	Project Management (Group A)	2(2,0)	Elective	6
24	0101100936	17200001	Innovation & Entrepreneurship (B)	2(2,0)	Elective	6
25	0101002400	07200444	Communication Skills (Group B)	2(2,0)	Elective	6
26	0101006387	13200011	Corporate Culture (Group B)	2(2,0)	Elective	6
<b>II</b>	<b>CORE KNOWLEDGE</b>		<b>37 Credits</b>			
1	0101003128	02200027	Electric Circuits 1	3(3,0)	15200001 (c)	1
2	0101003131	02200062	Electric Circuits 2	2(2,0)	02200027 (a)	2
3	0101003121	02200063	Electromagnetic Field Theory	2(2,0)	15200019 (a)	3
4	0101001260	02200045	Basic Electronics	3(3,0)	02200027 (a)	2
5	0101005024	02201045	Basic Electronics Practice	2(0,2)	02200045 (a)	3
6	0101006562	02200002	Linear Integrated Circuits	2(2,0)	02200027 (a)	5
7	0101002530	02200005	Measurement Techniques	3(3,0)	02200027/45(a)	4
8	0101005161	02201005	Measurement Tech Practice	1(0,1)	02200005 (a)	5
9	0101002877	02200047	Pulse and Digital Tech	3(3,0)	02200045 (a)	4
10	0101005271	02201047	Pulse and Digital Tech Practice	2(0,2)	02200047 (a)	5
11	0101007289	02200087	Signals and Systems	2(2,0)	15200001 (a)	5
12	0101000005	02200001	Electrical & Electronics Safety	2(2,0)	02200062 (a)	3

13	0101005019	02201101	Basic Electrical Practice	1(0,1)	02200045 (a)	2
14	0101100944	01201250	Programming in Engineering	2(0,2)		2
15	0101100838	02200108	Technical English (Elec/Elec)	2(2,0)	14200203 (a)	6
16	0101100839	02203001	Project 1	1(0,1)		4
17	0101000387	02201001	CAD in Electrical Engineering	2(0,2)	Elective	3
18	0101006911	02200079	Elec. Dist. Equipment	2(2,0)	Elective	3
19	0101002124	02200044	Electrical Apparatus	2(2,0)	02201101 (a)	3
20	0101006429	02200067	Electrical/Electronic Materials	2(2,0)	Elective	3
21	0101000391	02201040	CAD in Electronic Engineering	2(0,2)	02200045 (a)	3
22	0101100840	02201114	Integrated Control Programming	2(0,2)	Elective	3
<b>III</b>	<b>SPECIALIZED (PHASE 1)</b>		<b>48 Credits</b>			
1	0101003239	02200031	Electric Machines	3(3,0)	02200062 (a)	4
2	0101007966	02201031	Electric Machines Experiment	2(0,2)	02200031 (a)	5
3	0101006231	02200093	Electrical Installation	3(3,0)	02200062 (a)	5
4	0101100841	02201093	Electrical Install. Practice	2(0,2)	02200093 (a)	6
5	0101100842	02202001	PLC	3(1,2)	02201101 (a)	6
6	0101003072	02200094	Automatic Control Theory	3(3,0)	02202001 (a)	4
7	0101005040	02201094	Automatic Control Practice	2(0,2)	02200094 (a)	5
8	0101001274	02200007	Power Electronics	3(3,0)	02200045 (c)	3
9	0101005031	02201007	Power Electronics Practice	1(0,1)	02200103 (a)	3
10	0101100843	02202002	Microcontrollers	3(1,2)	02200047 (a)	4
11	0101100844	02201116	Advanced Microcontrollers	2(0,2)	02202002 (a)	5
12	0101100845	02203002	Project 2	1(0,1)	02203001 (a)	6
13	0101006899	02200033	Power Supply Networks	3(3,0)	02200062 (a)	6
14	0101006907	02200014	Lighting Technology	2(2,0)	02200033 (a)	7
15	0101006249	02200036	Electrical Drives	2(2,0)	02200093 (a)	7
16	0101100884	02201036	Electrical Drives Practice	1(0,1)	02200036 (c)	7
17	0101001774	02200105	Power Systems	3(3,0)	02200033 (a)	7
18	0101007967	02201124	Power Systems Experiment	1(0,1)	02200105 (c)	7
19	0101100847	02203003	Elec. Specialization Project	2(0,2)	02203002 (a)	7
20	0101100846	02204020	Internship (Bachelor)	2(0,2)		7
21	0101003763	02201106	Advanced PLC	2(0,2)	Elective	7

22	0101004625	02200081	Substation/Line Design	2(2,0)	Elective	7
23	0101006787	02201079	Network Analysis on PC	2(0,2)	Elective	7
24	0101100849	02201117	Compliant Electrical Design	2(0,2)	Elective	7
25	0101007253	02201103	Ind. Line Control Practice	2(0,2)	Elective	7
26	0101100850	02200109	Relay Protection	2(2,0)	Elective	7
27	0101100851	02200111	Robot Engineering	3(3,0)	Required (ET)	6
28	0101100852	02200110	Advanced Digital Tech	2(2,0)	Required (ET)	7
29	0101100853	02201110	Adv. Digital Tech Practice	1(0,1)	110 (c)	7
30	0101100854	02200112	IC Design	2(2,0)	Required (ET)	7
31	0101100855	02201112	IC Design Practice	2(0,2)	112 (c)	7
32	0101100856	02201119	Embedded System Design	2(0,2)	Required (ET)	7
33	0101100857	02203004	Electronic Spec. Project	2(0,2)	Required (ET)	7
34	0101006673	02200022	Biomedical Electronics	2(2,0)	Elective	7
35	0101100858	02201120	Applied Electronics	2(0,2)	Elective	7
36	0101100859	02201121	Image Processing	2(0,2)	Elective	7
37	0101001588	02201105	Computer-Based Ctrl/Meas	2(0,2)	Elective	7
38	0101007290	02200085	Digital Signal Processing	2(2,0)	Elective	7
<b>IV</b>	<b>ADVANCED (PHASE 2)</b>		<b>30 Credits</b>			
1	0101100860	02204021	Engineer Internship	8	Required	DN
2	0101100861	02206001	Graduation Thesis	14	Required	DN
3	0101007968	02200100	Power Elec. (Wind/Solar)	2(2,0)	Elective	DN
4	0101003868	02200080	Energy Management	2(2,0)	Elective	DN
5	0101001783	02200061	SCADA Systems	2(2,0)	Elective	DN
6	0101100862	02200211	Smart Grid	2(2,0)	Elective	DN
7	0101100863	02200122	Intelligent Ctrl Systems	2(2,0)	Elective	DN
8	0101001282	02200064	Advanced Electronics	2(2,0)	Elective	DN
9	0101000385	02200102	IoT	2(2,0)	Elective	DN
10	0101004024	02200030	Optoelectronics	2(2,0)	Elective	DN

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## 9. SEMESTER-BY-SEMESTER TRAINING PLAN

### Semester 1

Course Code	Course Name	Credits	Notes
0101100651	Marxist-Leninist Philosophy	3	
0101007557	IT Application Skills	3	
0101006144	Advanced Mathematics A1	3	
0101001657	National Defense Education 1	3	Non-accumulative

0101003128	Electric Circuits 1	3	
0101100816	General Physics	2	

## Semester 2

Course Code	Course Name	Credits	Notes
0101002298	Marxist-Leninist Political Economy	2	
0101100822	English 1	3	
0101006195	Engineering Mathematics	2	
16201001	Physical Education 1	2	Non-accumulative
0101001661	National Defense Education 2	2	Non-accumulative
0101003131	Electric Circuits 2	2	
0101001260	Basic Electronics	3	
0101005019	Basic Electrical Practice	1	
0101100944	Programming in Engineering	2	
0101003121	Electromagnetic Field Theory	2	

## Semester 3

Course Code	Course Name	Credits	Notes
0101100823	English 2	3	
0101003671	General Law	2	
16201002	Physical Education 2	2	Non-accumulative
0101001673	National Defense Education 3	1	Non-accumulative
0101001274	Power Electronics	3	
0101005024	Basic Electronics Practice	2	
0101000005	Electrical & Electronics Safety	2	
0101005031	Power Electronics Practice	1	
Multiple	Elective (CAD/Materials/Apparatus)	4	Choose 2

## Semester 4

Course Code	Course Name	Credits	Notes
0101100824	English 3	3	
16201003	Physical Education 3	1	Non-accumulative
0101001676	National Defense Education 4	2	Non-accumulative
0101002530	Measurement Techniques	3	
0101002877	Pulse and Digital Tech	3	
0101003239	Electric Machines	3	
0101100839	Project 1	1	
0101003072	Automatic Control Theory	3	
0101100843	Microcontrollers	3	

## Semester 5

Course Code	Course Name	Credits	Notes
0101000476	Scientific Socialism	2	
0101005161	Measurement Tech Practice	1	
0101005271	Pulse and Digital Tech Prac	2	
0101007289	Signals and Systems	2	
0101006231	Electrical Installation	3	
0101007966	Electric Machines Experiment	2	
0101005040	Automatic Control Practice	2	
0101006562	Linear Integrated Circuits	2	
0101100844	Advanced Microcontrollers	2	

## Semester 6

Course Code	Course Name	Credits	Notes
0101001625	History of the VN Communist Party	2	
0101100842	PLC	3	
0101100841	Practical Electrical Equipment	2	
0101100838	Technical English	2	
0101100845	Project 2	1	
0101006899	Power Supply Networks (Elec.)	3	Specialization
0101100851	Robot Engineering (Electronics)	3	Specialization
Multiple	Group A Elective (Management)	2	Choose 1
Multiple	Group B Elective (Innovation/Skills)	2	Choose 1

## Semester 7

Course Code	Course Name	Credits	Notes
0101006322	Ho Chi Minh Ideology	2	
0101100846	Graduation Internship (Bachelor)	2	
Multiple	Specialized Courses (Electrical)	11	Required Core
Multiple	Specialized Courses (Electronics)	11	Required Core
Multiple	Major Electives	4	Choose 2

## Enterprise Semester (Engineer Phase)

Course Code	Course Name	Credits	Notes
0101100860	Engineer Internship	8	
0101100861	Graduation Thesis	14	
Multiple	Advanced Electives	8	Choose 4

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## 10. IMPLEMENTATION GUIDELINES

### 10.1. Training Units

- Organize execution strictly according to the curriculum requirements and sequence.
- Assign qualified lecturers and provide standardized, detailed syllabi for each course.
- Prepare academic advisors to understand the credit system and guide student registration.
- Ensure necessary facilities, laboratories, textbooks, and technical references are accessible.

## **10.2. Lecturers**

- Conduct thorough research of course outlines to prepare lectures and teaching aids.
- Ensure all course materials and study guides are provided to students at least one week in advance.
- Facilitate active learning through group discussions, tutorials, and practical workshop sessions.

## **10.3. Testing and Evaluation**

- Maintain continuous monitoring of student progress both in class and through home assignments.
- Apply evaluation methods strictly following the institutional Credit-based Training Regulations.
- Implement rigorous measures to prevent and combat all forms of academic dishonesty.

## **10.4. Students**

- Consult with academic advisors to plan a registration progress suitable for personal capability.
- Research instructional materials prior to class and maintain full attendance for guidance.
- Commit to self-study, active group participation, and the use of diverse library and online resources.
- Maximize utilization of library and online resources for self-improvement and the graduation thesis.