**Republic of Iraq**

**Ministry of Higher Education and Scientific Research**

**Department of Scientific Supervision and Evaluation**

**Directorate of Quality Assurance and Academic Accreditation**

**Accreditation Department**










# ACADEMIC PROGRAM AND COURSE DESCRIPTION GUIDE

## Introduction

The educational program is a coordinated and organized package of academic courses that includes the skills intended to be acquired by students, based on the objectives of the academic program. The importance of this description lies in the fact that it represents the cornerstone for obtaining program accreditation. Academic staff participate in preparing it under the supervision of the scientific committees in the academic departments.

The academic program description provides a brief summary of the main characteristics of the program and its courses, in addition to internal or external evaluation programs, such as the external examiner program.

In its second edition, this guide includes the description of the academic program after updating the items and sections of the previous guide in light of the developments in the Iraqi educational system. The previous version presented the academic program description in its traditional form, either annual or semester-based, in addition to adopting the general academic program description issued by the Directorate of Studies on 3 May 2023, particularly for programs that adopt the Bologna Process as the basis for their operation.

In this context, the importance of preparing accurate descriptions of academic programs and courses is emphasized to ensure the proper functioning of the educational process.

## Definitions

### Academic Program Description

The academic program description provides a concise overview of its vision, mission, and objectives, including an accurate description of the intended learning outcomes according to specified learning strategies.

### Course Description

The course description provides a concise overview of the most important characteristics of the course and the expected learning outcomes that students are expected to achieve, demonstrating whether they have benefited fully from the available learning opportunities. It is derived from the academic program description.

## Program Vision

An ambitious image of the future of the academic program, aiming for the program to be advanced, inspiring, motivating, realistic, and applicable.

## Program Mission

A concise statement explaining the objectives and activities necessary to achieve them, while identifying the development pathways and directions of the program.

## Program Objectives

Statements describing what the academic program intends to achieve within a specified period of time. These objectives should be measurable and observable.

## Curriculum Structure

All academic courses/subjects included in the academic program according to the adopted educational system (semester-based, annual, or Bologna Process), whether they are Ministry, university, college, or department requirements, together with the number of academic units.

## Learning Outcomes

A set of coherent knowledge, skills, and values acquired by the student after successfully completing the academic program. The learning outcomes of each course should be specified in a manner that contributes to achieving the objectives of the program.

# Academic Program Description

**University Name: Ibn Khaldoun University College**

**College Name: Engineering Technology College**

**Department: Electrical Engineering Technology Department**

**Academic or Professional Program Name: Bachelor of Electrical Engineering Technology**

**Certification Title: Bachelor of Science in Electrical Engineering**

**Study System: Bologna / Semester System**

**Date of Description Preparation: January 2, 2026**

**Date of File Completion: January 2, 2026**

**Signature:**

**Department Head Name:** Ahmed Zkear abass

**Date:** 2026/2/10

Electrical Engineering Technology Department
قسم تقنيات الهندسة الكهربائية

**Signature:**

**Assistant Dean for Academic Affairs Name:**

**Date:**

**File Reviewed by:**

**Quality Assurance and University Performance Division**

**Name of Director of Quality Assurance and University Performance Division:**

**Date:**

**Signature:**

**Dean's Approval:**

## Program Vision

The Electrical Engineering Program seeks excellence and leadership in preparing scientifically and practically qualified engineers in the fields of energy and electrical systems, capable of developing innovative and sustainable engineering solutions that meet the needs of the local and regional labor markets, while adhering to global ethical and professional standards.

## Program Mission

The program aims to provide students with the knowledge, skills, and values required during their period of study, while supporting scientific development and technological innovation to contribute to the development of the energy sector and infrastructure.

## Program Objectives

**Knowledge Objectives:** Enable students to understand the fundamental principles of engineering sciences, mathematics, and physics related to electricity.

**Skills Objectives:** Develop students' ability to design complex electrical systems, analyze technical data, and use modern engineering software such as MATLAB and AutoCAD.

**Behavioral Objectives:** Promote engineering professional ethics, teamwork in major projects, and awareness of occupational and environmental safety issues.

## Program Accreditation

None.

## Other External Influences

Training and development courses; seminars; field visits; workshops; conferences.

## Program Structure

## Course Curriculum (Extracted from the Scanned Source)

The source document is a scanned PDF. The following course titles are the items that could be read reliably from the supplied pages; unreadable table fields have not been reconstructed or invented.

## First Stage

### 1. Academic Program Description

The first stage provides students with the fundamental scientific, mathematical, engineering, and technical knowledge required for studying Electrical Engineering Technologies. It establishes the basic foundation for understanding electrical engineering concepts and practical applications.

### 2. Course Description

The courses at this stage introduce students to basic engineering and electrical concepts and develop their initial theoretical and practical skills. The courses provide the foundation necessary for progressing to more specialized electrical engineering subjects.

### 3. Program Vision

The first stage seeks to establish a strong academic and technical foundation that enables students to progressively develop their knowledge in Electrical Engineering Technologies.

### 4. Program Mission

The mission of the first stage is to provide students with essential scientific and engineering knowledge and introduce them to the basic principles and applications of electrical engineering technologies.

### 5. Program Objectives

The first stage aims to develop students' fundamental knowledge, mathematical abilities, basic engineering skills, and understanding of electrical concepts. It also prepares students for advanced technical and practical study.

6. Curriculum Structure

The curriculum at this stage is structured around fundamental scientific, mathematical, engineering, and introductory electrical subjects. It combines theoretical learning with basic practical activities to establish the required foundation.

7. Learning Outcomes

By the end of the first stage, students are expected to understand fundamental engineering and electrical concepts, apply basic mathematical and analytical methods, and demonstrate introductory practical skills relevant to electrical engineering technologies.

## Second Stage

1. Academic Program Description

The second stage develops the knowledge acquired in the first stage and introduces students to core Electrical Engineering Technologies. The stage places greater emphasis on electrical systems, technical analysis, and practical applications.

2. Course Description

The courses focus on developing students' understanding of fundamental electrical engineering technologies and strengthening their analytical and practical skills. Students begin to deal with more specialized electrical concepts and applications.

3. Program Vision

The second stage aims to advance students from fundamental engineering knowledge toward a deeper understanding of electrical engineering technologies and their practical applications.

4. Program Mission

The mission of this stage is to develop students' technical knowledge and practical abilities and enable them to apply electrical engineering principles to basic engineering problems.

5. Program Objectives

The second stage aims to strengthen students' analytical capabilities, develop their understanding of electrical systems, and improve their ability to apply theoretical knowledge in practical engineering situations.

6. Curriculum Structure

The curriculum progresses from fundamental subjects toward core electrical engineering technologies. The courses provide a balance between theoretical knowledge, technical analysis, and practical applications.

7. Learning Outcomes

By the end of the second stage, students are expected to analyze basic electrical systems, apply appropriate engineering principles, perform technical measurements and practical tasks, and identify solutions to basic electrical engineering problems.

## Third Stage

1. Academic Program Description

The third stage provides students with advanced knowledge in Electrical Engineering Technologies and develops their ability to apply engineering principles to practical and technical problems. Greater emphasis is placed on specialized applications and professional skills.

## 2. Course Description

The courses at this stage address more advanced electrical engineering concepts and applications. They enhance students' abilities in analysis, testing, operation, and troubleshooting of electrical systems and technologies.

## 3. Program Vision

The third stage aims to develop technically competent students who can integrate theoretical knowledge with advanced practical applications in Electrical Engineering Technologies.

## 4. Program Mission

The mission of this stage is to prepare students to deal with advanced electrical engineering technologies through specialized knowledge, practical training, analytical thinking, and problem-solving skills.

## 5. Program Objectives

The third stage aims to develop advanced technical and analytical skills, improve students' ability to evaluate electrical systems, and prepare them for practical engineering applications and professional training.

## 6. Curriculum Structure

The curriculum focuses on advanced and specialized electrical engineering subjects supported by practical and laboratory activities. It builds a bridge between academic knowledge and professional engineering practice.

## 7. Learning Outcomes

By the end of the third stage, students are expected to analyze and evaluate electrical systems, perform advanced technical tasks, identify faults, apply appropriate engineering solutions, and demonstrate effective practical skills.

## Fourth Stage

1. Academic Program Description

The fourth stage represents the final stage of the Electrical Engineering Technologies program and focuses on consolidating students' technical and professional knowledge. It prepares students for practical engineering work and professional responsibilities.

2. Course Description

The courses provide advanced and specialized knowledge and emphasize the application of electrical engineering technologies to practical problems. The stage also supports students in integrating their knowledge through practical and project-based activities.

3. Program Vision

The fourth stage aims to graduate qualified engineering technologists capable of applying their academic and practical knowledge to electrical engineering applications and responding to technological developments.

4. Program Mission

The mission of the fourth stage is to prepare students for professional practice by integrating advanced technical knowledge, practical skills, problem-solving abilities, and professional responsibility.

5. Program Objectives

The fourth stage aims to consolidate students' technical competencies, develop their ability to solve practical engineering problems, strengthen professional skills, and prepare them for employment and continued professional development.

6. Curriculum Structure

The curriculum at this stage emphasizes advanced electrical engineering technologies, practical applications, professional preparation, and project-based learning. It integrates the knowledge and skills developed throughout the previous stages.

## 7. Learning Outcomes

By the end of the fourth stage, graduates are expected to apply electrical engineering technologies to practical problems, analyze and troubleshoot electrical systems, use appropriate engineering methods and tools, communicate technical information effectively, and demonstrate professional responsibility.

Republic of Iraq - Ministry of Higher Education and Scientific Research
Middle Technical University
Bachelor's degree in Electrical Engineering Techniques (First cycle)
Four years (Eight semesters) - 240 ECTS credits - 1 ECTS =25 hr
Program Curriculum (2025 - 2024)

جمهورية العراق - وزارة التعليم العالي والبحث العلمي
الجامعة التقنية الوسطى
بكالوريوس في تقنيات الهندسة الكهربائية (الدورة الأولى)
أربع سنوات (ثمانية فصول دراسية) - ٢٤٠ وحدة اوربية - كل وحدة اوربية = 25 ساعة
المنهاج الدراسي للعام 2024-2025

| Level | Semester | No. | Module Code | Module Name in English | اسم المادة الدراسية | Language | SSWL (hr/w) | | | | | | Exam hr/sem | SSWL hr/sem | USSWL hr/sem | SWL hr/sem | ECTS | Module Type | Prerequisite Module(s) Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | CL (hr/w) | Lect (hr/w) | Lab (hr/w) | Pr (hr/w) | Tut (hr/w) | Semn (hr/w) | | | | | | | |
| UGI | One | 1 | EET1101 | DC Electrical Circuits | دوائر التيار المستمر | English | 3 | | 2 | | 1 | | 4 | 94 | 106 | 200 | 8 | C | LRM |
| | | 2 | EET1102 | Digital Technologies | التقنيات الرقمية | English | 3 | | 2 | | 1 | | 4 | 94 | 56 | 150 | 6 | C | LRM |
| | | 3 | MTU1001 | Arabic Language(1) | اللغة العربية (1) | Arabic | 1 | 1 | | | | | 3 | 33 | 17 | 50 | 2 | B | None |
| | | 4 | EET1104 | Differential Mathematics | الرياضيات التفاضلية | English | 3 | 1 | | | 2 | | 3 | 93 | 57 | 150 | 6 | S | LRM |
| | | 5 | EETC101 | Engineering Workshops | الورش الهندسية | English | | | 4 | | | | 3 | 63 | 87 | 150 | 6 | S | None |
| | | 6 | MTU1006 | Human Rights and Democracy | حقوق الأنسان و الديمقراطية | Arabic | 2 | | | | | | 3 | 33 | 17 | 50 | 2 | B | None |
| | | | | | | Total | 12 | 2 | 8 | 0 | 4 | 0 | 20 | 410 | 340 | 750 | 30 | | |
| UGI | Semester | No. | Module Code | Module Name in English | اسم المادة الدراسية | Language | SSWL (hr/w) | | | | | | Exam hr/sem | SSWL hr/sem | USSWL hr/sem | SWL hr/sem | ECTS | Module Type | Prerequisite Module(s) Code |
| | | | | | | | CL (hr/w) | Lect (hr/w) | Lab (hr/w) | Pr (hr/w) | Tut (hr/w) | Semn (hr/w) | | | | | | | |
| | Two | 1 | EET1201 | Engineering Mechanics | الميكانيك الهندسي | English | 2 | | | | 2 | | 3 | 63 | 87 | 150 | 6 | B | None |
| | | 2 | MTU1002 | English Language (1) | اللغة الانكليزية (1) | English | 1 | 1 | | | | | 3 | 33 | 17 | 50 | 2 | B | LRM |
| | | 3 | EETC102 | Engineering Drawing | الرسم الهندسي | English | | | 4 | | | | 3 | 63 | 62 | 125 | 5 | B | None |
| | | 4 | EET1204 | AC Electrical Circuits | دوائر التيار المتناوب | English | 3 | | 2 | | 1 | | 4 | 94 | 106 | 200 | 8 | C | LRM |
| | | 5 | EET1205 | Integral Mathematics | الرياضيات التكاملية | English | 3 | 1 | | | 2 | | 3 | 93 | 57 | 150 | 6 | S | LRM |
| | | 6 | MTU1004 | Computer Principles | اساسيات الحاسوب | English | 1 | | 2 | | | | 4 | 49 | 26 | 75 | 3 | S | LRM |
| | | | | | | Total | 10 | 2 | 8 | 0 | 5 | 0 | 20 | 395 | 355 | 750 | 30 | | |
| Level | Semester | No. | Module Code | Module Name in English | اسم المادة الدراسية | Language | SSWL (hr/w) | | | | | | Exam hr/sem | SSWL hr/sem | USSWL hr/sem | SWL hr/sem | ECTS | Module Type | Prerequisite Module(s) Code |
| | | | | | | | CL (hr/w) | Lect (hr/w) | Lab (hr/w) | Pr (hr/w) | Tut (hr/w) | Semn (hr/w) | | | | | | | |
| UGII | Three | 1 | EET2101 | DC Generators | مولدات التيار المستمر | English | 3 | | 2 | | 1 | | 4 | 94 | 56 | 150 | 6 | C | LRM |
| | | 2 | EET2102 | Electronic Essentials | أساسيات الألكترونيات | English | 2 | | 2 | | 1 | | 4 | 79 | 46 | 125 | 5 | C | LRM |
| | | 3 | EET2103 | Electrical Circuit Analysis | تحليل الدوائر الكهربائية | English | 2 | | 2 | | 1 | | 4 | 79 | 46 | 125 | 5 | C | LRM |
| | | 4 | EET2104 | Sensors | المتحسسات | English | 2 | | 2 | | | | 4 | 64 | 36 | 100 | 4 | C | LRM |
| | | 5 | EET2105 | Applied Mathematics | الرياضيات التطبيقية | English | 3 | | | | 2 | | 3 | 78 | 47 | 125 | 5 | S | LRM |
| | | 6 | MTU1005 | Computer Applications | تطبيقات الحاسوب | English | 1 | | 2 | | | | 4 | 49 | 26 | 75 | 3 | S | LRM |
| | | 7 | MTU1007 | Baath Party Crimes of the Ba'ath regime in Iraq | جرائم نظام البعث في العراق | Arabic | 2 | | | | | | 3 | 33 | 17 | 50 | 2 | B | None |
| | | | | | | Total | 15 | 0 | 10 | 0 | 5 | 0 | 26 | 476 | 274 | 750 | 30 | | |
| UGII | Semester | No. | Module Code | Module Name in English | اسم المادة الدراسية | Language | SSWL (hr/w) | | | | | | Exam hr/sem | SSWL hr/sem | USSWL hr/sem | SWL hr/sem | ECTS | Module Type | Prerequisite Module(s) Code |
| | | | | | | | CL (hr/w) | Lect (hr/w) | Lab (hr/w) | Pr (hr/w) | Tut (hr/w) | Semn (hr/w) | | | | | | | |
| | Four | 1 | EET2201 | DC Motors | محركات التيار المستمر | English | 3 | | 2 | | 1 | | 4 | 94 | 56 | 150 | 6 | C | LRM |
| | | 2 | EET2202 | Electronic Circuits | الدوائر الكترونية | English | 2 | | 2 | | 1 | | 4 | 79 | 46 | 125 | 5 | C | LRM |
| | | 3 | EET2203 | Advanced Electrical Circuits Analysis | تحليل الدوائر الكهربائية متقدم | English | 2 | | 2 | | 1 | | 4 | 79 | 46 | 125 | 5 | C | LRM |
| | | 4 | EET2204 | Instruments and Measurements | الأجهزة و القياسات | English | 2 | | 2 | | | | 4 | 64 | 61 | 125 | 5 | C | LRM |
| | | 5 | EET2205 | Engineering Analysis | التحليلات الهندسية | English | 3 | | | | 2 | | 3 | 78 | 47 | 125 | 5 | B | LRM |
| | | 6 | MTU1003 | English Language (2) | اللغة الانكليزية (2) | English | 1 | 1 | | | | | 3 | 33 | 17 | 50 | 2 | B | None |
| | | 7 | MTU1009 | Arabic Language(2) | اللغة العربية (2) | Arabic | 1 | 1 | | | | | 3 | 33 | 17 | 50 | 2 | B | None |
| | | | | | | Total | 14 | 2 | 8 | 0 | 5 | 0 | 25 | 460 | 290 | 750 | 30 | | |
| Level | Semester | No. | Module Code | Module Name in English | اسم المادة الدراسية | Language | SSWL (hr/w) | | | | | | Exam hr/sem | SSWL hr/sem | USSWL hr/sem | SWL hr/sem | ECTS | Module Type | Prerequisite Module(s) Code |
| | | | | | | | CL (hr/w) | Lect (hr/w) | Lab (hr/w) | Pr (hr/w) | Tut (hr/w) | Semn (hr/w) | | | | | | | |
| UGIII | Five | 1 | EET3101 | Principles of Power Engineering | مبادىء هندسة القدرة | English | 3 | | 2 | | 2 | | 4 | 109 | 66 | 175 | 7 | C | LRM |
| | | 2 | EET3102 | DC Power Conversions | مغيرات القدرة المستمرة | English | 3 | | 2 | | 1 | | 4 | 94 | 56 | 150 | 6 | C | LRM |
| | | 3 | EET3103 | Electrical Transformers and Induction Machines | المحولات الكهربائية والمكائن الحثية | English | 3 | | 2 | | | | 4 | 79 | 46 | 125 | 5 | C | LRM |
| | | 4 | EET3104 | Electromagnetic Fields | المجالات الكهرومغناطيسية | English | 3 | | | | | | 3 | 48 | 77 | 125 | 5 | C | LRM |
| | | 5 | EET3105 | Microprocessor | المعالج الدقيق | English | 3 | | 1 | | | | 4 | 64 | 36 | 100 | 4 | C | LRM |
| | | 6 | EET3106 | Numerical Analysis | التحليلات العددية | English | 2 | | | | 1 | | 3 | 48 | 27 | 75 | 3 | B | LRM |
| | | | | | | Total | 17 | 0 | 7 | 0 | 4 | 0 | 22 | 442 | 308 | 750 | 30 | | |
| UGIII | Semester | No. | Module Code | Module Name in English | اسم المادة الدراسية | Language | SSWL (hr/w) | | | | | | Exam hr/sem | SSWL hr/sem | USSWL hr/sem | SWL hr/sem | ECTS | Module Type | Prerequisite Module(s) Code |
| | | | | | | | CL (hr/w) | Lect (hr/w) | Lab (hr/w) | Pr (hr/w) | Tut (hr/w) | Semn (hr/w) | | | | | | | |
| | Six | 1 | EET3201 | Advanced Power Engineering | هندسة القدرة المتقدم | English | 3 | | 2 | | 2 | | 4 | 109 | 66 | 175 | 7 | C | LRM |
| | | 2 | EET3202 | AC Power Conversions | مغيرات القدرة المتناوبة | English | 3 | | 2 | | 1 | | 4 | 94 | 56 | 150 | 6 | C | LRM |
| | | 3 | EET3203 | Synchronous and Special Machines | المكائن التزامنية و الخاصة | English | 3 | | 2 | | | | 4 | 79 | 46 | 125 | 5 | C | LRM |
| | | 4 | EET3204 | Digital Controllers | المسيطرات الرقمية | English | 4 | | 2 | | 1 | | 4 | 109 | 66 | 175 | 7 | C | LRM |
| | | 5 | EET32XX | Elective 1 | مادة اختيارية 1 | English | 3 | | 2 | | | | 4 | 79 | 46 | 125 | 5 | E | LRM |
| | | | | | | Total | 16 | 0 | 10 | 0 | 4 | 0 | 20 | 470 | 280 | 750 | 30 | | |
| Level | Semester | No. | Module Code | Module Name in English | اسم المادة الدراسية | Language | SSWL (hr/w) | | | | | | Exam hr/sem | SSWL hr/sem | USSWL hr/sem | SWL hr/sem | ECTS | Module Type | Prerequisite Module(s) Code |
| | | | | | | | CL (hr/w) | Lect (hr/w) | Lab (hr/w) | Pr (hr/w) | Tut (hr/w) | Semn (hr/w) | | | | | | | |
| UGIV | Seven | 1 | EET4101 | Transmission and Distribution Systems | أنظمة النقل والتوزيع | English | 3 | | 2 | | | | 4 | 79 | 46 | 125 | 5 | C | LRM |
| | | 2 | EET4102 | Electric Machine Drives | مسوقات المكائن الكهربائية | English | 3 | | 2 | | | | 4 | 79 | 46 | 125 | 5 | C | LRM |
| | | 3 | EET4103 | Power Systems Analysis | تحليل أنظمة القدرة | English | 3 | | 2 | | | | 4 | 79 | 46 | 125 | 5 | C | LRM |
| | | 4 | EET4104 | Electric Power Generation Stations | محطات توليد القدرة الكهربائية | English | 3 | | 2 | | | | 4 | 79 | 46 | 125 | 5 | C | LRM |
| | | 5 | EET4105 | Control Systems Analysis | تحليل أنظمة السيطرة | English | 3 | | 2 | | | | 4 | 79 | 46 | 125 | 5 | C | LRM |
| | | 6 | EET4106 | Project 1 | مشروع 1 | English | | 1 | 1 | 4 | | | 3 | 93 | 32 | 125 | 5 | C | LRM |
| | | | | | | Total | 15 | 1 | 11 | 4 | 0 | 0 | 23 | 488 | 262 | 750 | 30 | | |
| UGIV | Semester | No. | Module Code | Module Name in English | اسم المادة الدراسية | Language | SSWL (hr/w) | | | | | | Exam hr/sem | SSWL hr/sem | USSWL hr/sem | SWL hr/sem | ECTS | Module Type | Prerequisite Module(s) Code |
| | | | | | | | CL (hr/w) | Lect (hr/w) | Lab (hr/w) | Pr (hr/w) | Tut (hr/w) | Semn (hr/w) | | | | | | | |
| | Eight | 1 | MTU1008 | Professional Ethics | اخلاقيات المهنة | Arabic | 2 | 1 | | | | | 3 | 48 | 27 | 75 | 3 | B | None |
| | | 2 | EET4202 | Power Systems Protection | حماية أنظمة القدرة | English | 3 | | 2 | | | | 4 | 79 | 46 | 125 | 5 | C | LRM |
| | | 3 | EET4203 | Stability of Power Systems | أستقرارية أنظمة القدرة | English | 3 | | 2 | | | | 4 | 79 | 46 | 125 | 5 | C | LRM |
| | | 4 | EET4204 | High Voltage Techniques | تقنيات الضغط العالي | English | 3 | | 2 | | 1 | | 4 | 94 | 81 | 175 | 7 | C | LRM |
| | | 5 | EET4205 | Project 2 | مشروع 2 | English | | 1 | 1 | 4 | | | 3 | 93 | 32 | 125 | 5 | C | LRM |
| | | 6 | EET42XX | Elective 2 | مادة اختيارية 2 | English | 3 | | 2 | | | | 4 | 79 | 46 | 125 | 5 | E | LRM |
| | | | | | | Total | 14 | 2 | 9 | 4 | 1 | 0 | 22 | 472 | 278 | 750 | 30 | | |
| | | | | | | Total | 113 | 9 | 71 | 8 | 28 | 0 | 178 | 3613 | 2387 | 6000 | 240 | Must be 240 ECTS | |

| | Semester | No. | Module Code | Module Name in English | اسم المادة الدراسية | Language | SSWL (hr/w) | | | | | | Exam hr/sem | SSWL hr/sem | USSWL hr/sem | SWL hr/sem | ECTS | Module Type | Prerequisite Module(s) Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | CL (hr/w) | Lect (hr/w) | Lab (hr/w) | Pr (hr/w) | Tut (hr/w) | Semn (hr/w) | | | | | | | |
| UGIII | Six | 1 | EET3206 | Communication Systems | انظمة الأتصالات | English | 3 | | 2 | | | | 4 | 79 | 46 | 125 | 5 | E | LRM |
| | | 2 | EET3207 | Digital Signal Processing | معالجة الأشارة الرقمية | English | 3 | | 2 | | | | 4 | 79 | 46 | 125 | 5 | E | LRM |
| UGIV | Eight | 3 | EET4206 | Modeling and Simulation | النمذجة و المحاكات | English | 3 | | 2 | | | | 4 | 79 | 46 | 125 | 5 | E | LRM |
| | | 4 | EET4207 | Modern Control Systems | انظمة السيطرة الحديثة | English | 3 | | 2 | | | | 4 | 79 | 46 | 125 | 5 | E | LRM |
| | | 5 | EET4208 | Sustainable Energy | الطاقة المتجددة | English | 3 | | 2 | | | | 4 | 79 | 46 | 125 | 5 | E | LRM |
| | | 6 | EET4209 | Industrial Management | الإدارة الصناعية | English | 3 | | | 1 | | 1 | 4 | 79 | 46 | 125 | 5 | E | LRM |

Note: The student should complete 4 weeks of Summer Training in order to fulfil the requirements of the Bachelor's degree

| Structured SWL (hr/w) type | | |
|---|---|---|
| | CL | Class Lecture |
| | Lab | Laboratory |
| | Pr | Practical Training |
| | Tut | Tutorial |
| | Lect | Online lecture |
| | Semn | Seminar |

| Module type | |
|---|---|
| B | Basic learning activities |
| C | Core learning activity |
| S | Support or related learning activity |
| E | Elective learning activity |

Note: Columns O, Q and R are programed, protected and should not be edited.
Note: The summer training course has 8 training weeks (320 hours) [4 weeks x 5 days/week x 8 hours/day]

| | |
|---|---|
| SWL: | Student Workload |
| SSWL: | Structured SWL |
| USSWL: | Unstructured SWL |
| LRM: | Level Restricted Module |

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