Mustansiriyah University

الجامعة المستنصرية

First Cycle – Bachelor's degree (B.Sc.) – Electrical Engineering

بكالوريوس - هندسة كهربائية



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1. Mission & Vision Statement

Vision Statement

The vision of electrical engineering program is to prepare excellent engineers in the field of electrical engineering scientifically and practically in Iraq and the region.

Mission Statement

The mission of electrical engineering program is to supply the fields of work with excellent engineers in the electrical engineering, with its branches of electronics, communications, and power & machinery.

2. Program Specification

Program code:	MU0203	**ECTS**	240
Duration:	4 levels, 8 Semesters	**Method of Attendance:**	Full Time

The Electrical Engineering program at Al-Mustansiriyah University awards a degree (Bachelor of Science) in electrical engineering for undergraduate studies, which includes a bachelor's degree in general electricity major. A bachelor's degree is granted in the Department of Electrical Engineering through direct enrollment in the department, registration in the two semesters of each level, and progression to the four academic levels. Whoever successfully completes (240) European's units or the equivalent of (6000) workload hours for public electricity is considered successful and eligible to obtain a bachelor's degree.

The electrical engineering program covers a broad range of topics related to the design, analysis, and application of electrical systems and devices. The curriculum combines theoretical knowledge with hands-on laboratory work. The program includes the following key areas:

1. Fundamentals of Electrical Engineering: Courses in this area provide a foundation in basic electrical engineering principles and theories. Topics may include circuits, electromagnetics, signals and systems, electronic devices, and engineering mathematics.
2. Electronics: Courses in electronics focus on the design and analysis of electronic circuits and devices. Students learn about semiconductor devices, analog and digital circuits, operational amplifiers, logic gates, and integrated circuits.
3. Power Systems and Machines: Power systems courses cover the generation, transmission, and distribution of electrical power. Students learn about power generation technologies, power system components, power flow analysis. Machine courses focus on design and analysis of D.C., induction, and synchronous machines.
4. Communications and Signal Processing: Courses in this area focus on the transmission, modulation, and processing of signals in communication systems. Students study topics such as analog and digital communications, wireless communication, and digital signal processing.
5. Control Systems: Control systems courses introduce students to the principles of feedback control, stability analysis, and control system design. Students learn about sensors and actuators, PID controllers, system modeling, and control system optimization.
6. Laboratory Work: Practical laboratory work is an integral part of an electrical engineering program. Students gain hands-on experience with electrical and electronic components, measurement equipment, circuit simulation software, and practical applications of engineering principles.

A graduate of the Department of Electrical Engineering is granted documents in both Arabic and English from the College's Registration Division after being verified by the department.

3. Program Objectives

1. To distinguish, define, formulate, and solve engineering problems through the application of principles of engineering, science, and mathematics.

2 - To produce engineering designs that meet the required needs within certain constraints by applying both analysis and synthesis in the design process.

3 - To create and implement appropriate measurements and tests while ensuring quality, analyzing, and interpreting results, and using engineering judgments to obtain inferences.

4 - To communicate skillfully orally with a group of people (community communication) and write with different administrative levels.

5- To realize ethical and professional responsibilities in engineering issues and to make appropriate judgments, considering the consequences of financial, environmental, and social considerations around the world.

6 - To recognize the ongoing necessity for the development of professional knowledge and how to find, evaluate, collect, and apply it correctly.

7 - To work adequately with teams (teamwork), set goals, plan activities, meet due dates and manage risks.

4. Student Learning Outcomes

Electrical engineering program covers a broad range of topics related to the design, analysis, and application of electrical systems and devices. The curriculum combines theoretical knowledge with hands-on laboratory work and practical projects to develop students' technical skills and problem-solving abilities. The aim from the electrical engineering educational program is to prepare the engineering cadres specialized in various fields of electrical engineering (electronics, communications, power, and electrical machinery) to meet the needs and requirements of society. As well as providing graduates with the most recent resources of knowledge and technology to develop their capacity for creativity, leadership, innovation, teamwork, and competitiveness. In addition to spreading the culture and ethics of scientific research and developing educational programs based on local and regional standards and global.

Outcome 1

Analyzing System Interactions:

Graduates will be able to analyze complex interactions and interdependencies among various components and subsystems within electrical engineering systems. They will understand how different elements within a system affect one another and how changes in one component can impact the overall system behavior.

Outcome 2

Oral and Written Communication

Graduates will be able to develop effective communication skills, both oral and written, necessary for presenting technical information, writing reports, and documenting electrical engineering projects. They will also gain experience in working collaboratively in multidisciplinary teams.

Outcome 3

Laboratory and Experimental Skills

Graduates will be able to possess practical skills in conducting laboratory experiments, measurements, and data analysis. They will have hands-on experience with laboratory equipment, instruments, and software tools commonly used in electrical engineering. They will understand the importance of accurate data collection, experimentation, and verification of theoretical concepts.

Outcome 4

Scientific Knowledge

Graduates will be able to apply knowledge of mathematics, logic, and engineering sciences in general, and electrical and electronic sciences. They will acquire a strong foundation in the principles, theories, and mathematical concepts of electrical engineering.

Outcome 5

Data Analyses

The ability to identify problems in the field of telecommunications, electronics, power system and machine engineering, and the ability to find solutions to them.

Outcome 6

Design and Innovation

The ability to design electronic engineering systems in the field of communication engineering and all other electronic systems that serve all areas of work. The ability to design and conduct experiments, as well as analyze their results.

Outcome 7

System Modeling and Simulation

Graduates will be able to develop mathematical models and computer simulations to represent complex relationships within electrical engineering systems. They will have the skills to formulate equations, design algorithms, and use simulation software to predict system behavior and evaluate system performance under different conditions.

Outcome 8

Critical Thinking

Graduates will be able to use critical-thinking and problem-solving skills to develop a research project and/or paper.

5. Academic Staff

Malik Jasim Farhan | Ph.D. in Electrical Engineering | Professor
Email: malik.jasim@uomustansiriyah.edu.iq
Mobile no.: 07735198543

Ali khalid Jassim | Ph.D. in Communication Engineering | Assistant Prof.
Email: alijassim@uomustansiriyah.edu.iq
Mobile no.: 07709361142

Yasin Yousif Mohammed | Ph.D. in Electrical Engineering | Assistant Prof.
Email: yasinalaboosi@uomustansiriyah.edu.iq
Mobile no.: 07737911619

Ammar Moufak Yacoob Dukhan | Ph.D. in Telecommunications Engineering | Lecturer
Email: ammar.dukhan@uomustansiriyah.edu.iq
Mobile no.: 07733262603

Zainab Majeed Abid | M Sc. in Communication | Lecturer
Email: Zainab.majeed@uomustansiriyah.edu.iq
Mobile no.: 07808696991

Maher K. Mahmood | M Sc. in Electrical Engineering/communication | Professor
Email: maher.alazawi@uomustansiriyah.edu.iq
Mobile no.: 07702885179

Isam Mahmood Abdulbaqi | Ph.D. in Electrical Machines Engineering | Professor
Email: embaki56@uomustansiriyah.edu.iq
Mobile no.:07902330437

Raad Hamdan Thaher | Ph.D. in Electrical Engineering | Professor
Email: Raadthaher@uomustasiriyah.edu.iq
Mobile no.: 07738282561

Adheed Hasan Sallomi | Ph.D. in Communication Engineering | Professor
Email: adheedsallomi@uomustansiriya.edu.iq
Mobile no.: 07706253777

Turki Kahawish Hassan | Ph.D. in Electrical Engineering/ Power Electronics | Professor
Email: turki_k.eng@uomustansiriyah.edu.iq
Mobile no.: 07725353280

Ghusoon M. Ali | Ph.D. in Electrical Engineering | Professor
Email: eng.ghusoon_ali@uomustansiriyah.edu.iq
Mobile no.: 07901151091

Abbas Hussien Miry | Ph.D. in Electrical Engineering | Professor
Email: abbasmiry83@uomustansiriyah.edu.iq
Mobile no.: 07725377506

Zaid Asaad Abdul Hassain | M Sc. in Antenna and Microwave | Professor
Email: zaidasaad_79@uomustansiriyah.edu.iq
Mobile no.: 07705305974

Abbas Fadhil Abbas Al-shimmary| MSc. In Mathematics | Professor
Email: abbs.fadhil62@uomustansiriyah.edu.iq
Mobile no.: 07500471214

Fadhil Sahib Hasan | Ph.D. in Electronic and Communication | Professor
Email: fadel_sahib@uomustansiriyah.edu.iq
Mobile no.: 07700829952

Kassim A. Ali Al-Anbarri | Ph.D. in Electrical Engineering | Assistant Prof.
Email: alanbarri@uomustansiriyah.edu.iq
Mobile no.: 07702679515

Ghanim A. Al-Rubaye | Ph.D. in Electronics and Communication Engineering | Assistant Prof.
Email: g.a.m.al-rubaye@uomustansiriyah.edu.iq
Mobile no.: 07711591308

Kassim Rasheed Hameed | Ph.D. in Electrical Engineering | Assistant Prof.
Email: kassim.r.h60@uomustansiriyah.edu.iq
Mobile no.: 07711143748

Amer Mejbel Ali | Ph.D. in Electrical Engineering | Assistant Prof.
Email: dramerma@uomustansiriyah.edu.iq
Mobile no.: 07901628735

Wafaa Saeed Majeed| Electrical Engineering | Assistant Prof.
Email: wafaasaid_2005@uomustansiriyah.edu.iq
Mobile no.: 07705343794

Mohammed Najm Abdullah | Ph.D. in Mechanical Engineering | Assistant Prof.
Email: dr.mohammednajm@uomustansiriyah.edu.iq
Mobile no.: 07702763968

Tariq Mohamed Salman| Ph.D. in Communication Engineering | Assistant Prof.
Email: Tariq.Salman@umustamsiriyah.edu.iq
Mobile no.:

Hussein Ali Abdulnabi | Ph.D. in Electrical engineering | Assistant Prof.
Email: husseinali@uomustansiriyah.edu.iq
Mobile no.: 07703462406

Gregor Alexander Aramice | M.Sc. in Electrical Engineering | Assistant Prof.
Email: gregoralexander1977@uomustansiriyah.edu.iq
Mobile no.: 07710637775

Layth Tawfeeq Abed Ali| Ph.D. in power system engineering | Assistant Prof.
Email: laith1973a@uomustansiriyah.edu.iq
Mobile no.: 07712263252

Ammar Ghalib AL_GIZI | Ph.D. in Electrical Engineering | Assistant Prof.
Email: ammar.ghalib@uomustansiriyah.edu.iq
Mobile no.: 07821822160

Riyadh Ghanim Omar| Ph.D. in | Assistant Prof.
Email: riyadh.g.omar@uomustansiriyah.edu.iq
Mobile no.: 07721448438

Mohanad Abd Shehab| Ph.D. in Electronic Engineering | Assistant Prof.
Email: mohanadshehab@uomustansiriyah.edu.iq
Mobile no.: 07711183529

Hasan Mohammad-Ali Kadhim | Ph.D. in Electrical Engineering | Assistant Prof.
Email: hasanalmgotir@uomustansiriyah.edu.iq
Mobile no.: 07832939155

Sadiq Kadhim Ahmed| Ph.D. in Electrical Engineer | Assistant Prof.
Email: drsadiq18@uomustansiriyah.edu.iq
Mobile no.: 07719230439

Ammar Ali Sahrab | Ph.D. in Electrical Engineering | Lecturer
Email: sahrab.ammar.ali@uomustansiriyah.edu.iq
Mobile no.: 07736397957

Tariq Mustafa Kamal Tashan| Ph.D. in Electrical Engineering | Assistant Prof.
Email: tariq.tashan@uomustansiriyah.edu.iq
Mobile no.: 07710138026

Auday A.H. Mohamad | Ph.D. in Electrical and Electronic Engineering | Assistant Prof.
Email: auday.mohamad@uomustansiriyah.edu.iq
Mobile no.: 07811901528

Zaid Saleem Ali Al-Wardi | Ph.D. in Computer Engineering | Assistant Prof.
Email: alwardi@uomustansiriyah.edu.iq
Mobile no.: 07812564401

Ali Hussein Al-Omari | Ph.D. in Biology | Assistant Prof.
Email: ali.jabbar@uomustansiriyah.edu.iq
Mobile no.: 07804448087

Salah M. Swadi| Ph.D. in Mechanical Engineering | Assistant Prof.
Email: s.m.swadi@uomustansiriyah.edu.iq
Mobile no.: 07512795791

Zahraa Hummam Mohammed | MSc. in Laser and Optoelectrons | Assistant Prof.
Email: zhm_2013@uomustansiriyah.edu.iq
Mobile no.: 07706573972

Riyadh Ali Abdulhussein| Ph.D. in Electronics and Communications | Lecturer
Email: Riyadh@uomustansiriyah.edu.iq
Mobile no.: 07719968933

Husam Jumaah Naeemah| Ph.D. in Communication Engineering | Lecturer
Email: husam.albehadili@uomustansiriyah.edu.iq
Mobile no.: 07727212175
Abdulhasan Abdallah Kadhim Altaey | Ph.D. in Power Electronics | Lecturer
Email: hasanaltaey@uomustansiriyah.edu.iq
Mobile no.: 07839828777

Hussein Ali Hussein | Ph.D. in Electronic and Communication Engineering | Lecturer
Email: ha65@uomustansiriyah.edu.iq
Mobile no.: 07902321621

Saif Thamer Fadhil Al-Zubaidi | Ph.D. in Electrical Power Engineering | Lecturer
Email: dr.saif.al_zubaidi@uomustansiriyah.edu.iq
Mobile no.: 07731317907

Suha Qasim Hadi | Ph.D. in Communication Engineering | Lecturer
Email: drsuhaqasim@uomustansiriyah.edu.iq
Mobile no.: 07740280853

Musab Tahseen Salahaldeen | Ph.D. in Electrical Engineering | Lecturer
Email: m.t.s.al_kaltakchi@uomustansiriyah.edu.iq
Mobile no.: 07717490051

Nidaa H. Abbas| Ph.D. in Electronics and communication Engineering | Lecturer
Email: nidaahasan71@uomustansiriyah.edu.iq
Mobile no.: 07708353770

Alaa Hussain Ahmed | Ph.D. in Electronics and Communications | Lecturer
Email: alaa75hs@uomustansiriyah.edu.iq
Mobile no.: 07737856702

Enaam Abdul Khaliq Ali | Ph.D. in Power and Machines | Lecturer
Email: enaamali2018@uomustansiriyah.edu.iq
Mobile no.: 07717774279

Safaa Abdul Khaliq Ali | Ph.D. in Electrical and Computer Engineering | Lecturer
Email: asafaa@uomustansiriyah.edu.iq
Mobile no.: 07836354504

Hussein Mohammed Hathal | Ph.D. in Electrical engineering | Lecturer
Email: Hussein.m.hathal@uomustansiriyah.edu.iq
Mobile no.: 07702592887

Amer Abbood Osman Al-behadili| Ph.D. in Electrical engineering | Lecturer
Email: amer_osman@uomustansiriyah.edu.iq
Mobile no.: 07707787932

Methaq Kadhum| Ph.D. in Computer science | Lecturer
Email:
Mobile no.: 07815647734

Awatif Ali Jafaar | M Sc. in Electrical Engineering | Lecturer
Email: awatifali_2012@uomustansiriyah.edu.iq
Mobile no.: 07902601488

Noor Safaa Abdul-Jaleel| M Sc. in Electrical Engineering | Lecturer
Email: mail22ns@uomustansiriyah.edu.iq
Mobile no.: 07702984257

Tawfeeq Enad Abdulabbas | M. sc.in Electrical Engineering | Lecturer
Email: Tawfikenad@uomustansiriyah.edu.iq
Mobile no.: 07711424513

Ali Abed Radhi | M. sc. in Electronics and Communication Engineering | Lecturer
Email: alimsc@uomustansiriyah.edu.iq
Mobile no.: 07702628143

Ahmed Khalid Kadhim| M. sc.in Electrical Engineering | Lecturer
Email: a.k.kadhim@uomustansiriyah.edu.iq
Mobile no.: 07738467559

Basma Nazar Nadhim| M Sc. in Electronic and Communication | Lecturer
Email: besma.nazar@uomustansiriyah.edu.iq
Mobile no.: 07700702481

Mushreq Abdulhussain Shuriji | MS.c. in Electrical Engineering | Lecturer
Email: mushreq@uomustansiriyah.edu.iq
Mobile no.: 07901320408

Wedian Hadi Abdalameer | M Sc. in Power Systems Engineering | Lecturer
Email: powersystem60@uomustansiriyah.edu.iq
Mobile no.:

Mustafa Mahdi Ali | M Sc. in Wireless Communications Engineering | Lecturer
Email: mustafa_mahdi@uomustansiriyah.edu.iq
Mobile no.: 07903312855

Luay Badr Hamad| M Sc. Mechanical Engineering| Lecturer
Email: luaybadr75@uomustansiriyah.edu.iq
Mobile no.: 07714895441

Saif Ali Abdulhussien| M Sc. in Electrical Engineering | Lecturer
Email: saifabc0001@uomustansiriyah.edu.iq
Mobile no.: 07705300363

Radhi Sehen Issa | M Sc. in Electronic and Communication Engineering | Lecturer
Email: Radhi.sahan@uomustansiriyah.edu.iq
Mobile no.: 07708831999

Alaa Kareem Hasan | M Sc. in Electronics & Communication | Lecturer
Email: alaak_eng@uomustansiriyah.edu.iq
Mobile no.: 07824982834

Ban Mohammed Alameri | M Sc. in Electronic and Communication Engineering | Lecturer
Email: Ban.alameri@uomustansiriyah.edu.iq
Mobile no.: 07710627950

Jaafar Qassim Kadhim | M Sc. in Electronic and Communication Engineering | Assistant Lecturer
Email: jaafar80@uomustansiriyah.edu.iq
Mobile no.: 07718678791

Saad Abdlsada Mazal| M Sc. in Arabic | Assistant Lecturer
Email: saadabdalfreje@uomustansiriyah.edu.iq
Mobile no.: 07711450999

Zainab Mahmood Abed| M Sc. in Electrical Power & Machines Engineering | Assistant Lecturer
Email: zenababd@uomustansiriyah.edu.iq
Mobile no.: 07712374478

Huda Abdulameer Abbood | M Sc. in Communication & Electronic Engineering | Assistant Lecturer
Email: hudaabdulameer@uomustansiriyah.edu.iq
Mobile no.: 07711215568

Zainab Saadoon Jameel| M Sc. in Electrical Engineering| Assistant Lecturer
Email: zainab.saadoon@uomustansiriyah.edu.iq
Mobile no.: 07715462053

Omar Talib Taha| M Sc. in Electrical and Electronics Engineering| Assistant Lecturer
Email: Omartalib92@uomustansiriyah.edu.iq
Mobile no.: 07735113554

Shimaa Abdulsalam Khazal| M Sc. in Electronic and Communication Engineering| Assistant Lecturer
Email: shimaa.janabi@uomustansiriyah.edu.iq
Mobile no.: 07516741980

Mustafa Abdulhadi Jalil | M Sc. in Communication Engineering| Assistant Lecturer
Email: mustafajalil@uomustansiriyah.edu.iq
Mobile no.: 07702546444

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6. Credits, Grading and GPA

Credits

College of Engineering \ Al- Mustansiriyah University is following the Bologna Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 240, 30 ECTS per semester. 1 ECTS is equivalent to 25 hrs student workload, including structured and unstructured workload.

Grading

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

GRADING SCHEME مخطط الدرجات				
Group	**Grade**	التقدير	**Marks (%)**	**Definition**
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب - قيد المعالجة	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note:				
Number Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

Calculation of the Cumulative Grade Point Average (CGPA)

1. The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

   CGPA of a 4-year B.Sc. degree:

   CGPA = [(1st module score x ECTS) + (2nd ^{m}odule score x ECTS) + ……] / 240

7. Curriculum/Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
MU0203010101	Mathematics I	63	37	4.00	B	–
MU0203010102	Fundamentals of D.C. Circuits	109	41	6.00	C	–
MU0203010103	Electronic Physics	78	47	5.00	C	–
MU0203010104	Fundamentals of Logic Circuits	94	81	7.00	C	–
MU0203010105	Engineering Drawing	63	37	4.00	B	-
MU02	Democracy & Human Rights	33	17	2.00	B	-
MU06	Arabic Language	33	17	2.00	B	-

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
MU0203010201	Mathematics II	78	47	5.00	B	–
MU0203010202	Fundamentals of A.C. Circuits	109	41	6.00	C	–
MU0203010203	Semiconductor Devices	108	92	8.00	C	–
MU0203010204	Principles of Mechanical Engineering	93	57	6.00	B	–
MU04	Computer	49	26	3.00	B	–
MU01	English Language	33	17	2.00	B	–

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
MU0203020301	Engineering Mathematics I	63	62	5.00	B	MU0203010201
MU0203020302	Electrical Circuits I	63	62	5.00	C	MU0203010202
MU0203020303	Electronic Fundamentals	79	46	5.00	C	MU0203010203
MU0203020304	Electrostatic Fields	63	37	4.00	C	MU0203010201
MU0203020305	D.C. Machines	79	46	5.00	C	MU0203010202
MU0203020306	Computer Programming	109	41	6.00	C	MU04

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
MU0203020401	Engineering Mathematics II	63	62	5.00	B	–
MU0203020402	Electrical Circuits II	63	37	4.00	C	–
MU0203020403	Electronic Circuits	94	56	6.00	C	–
MU0203020404	Single & Three Phase Transformers	94	56	6.00	C	–
MU0203020405	Steady Magnetic Fields & Wave Propagation	93	82	7.00	C	–
MU03	Baath Regime Crimes in Iraq	33	17	2.00	S	–

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
MU0203030501	Engineering Analysis	93	32	5.00	C	MU0203020401
MU0203030502	Analogue Communication	63	37	4.00	C	MU0203020401
MU0203030503	Advanced Electronics	94	56	6.00	C	MU0203020403
MU0203030504	Induction Machines	64	61	5.00	C	MU0203020404
MU0203030505	Electrical Power Generation	63	62	5.00	C	MU0203020402
MU0203030506	Microprocessor	79	46	5.00	C	MU0203020306

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
MU0203030601	Digital Signal Processing	63	62	5.00	C	–
MU0203030602	Digital Communication	94	31	5.00	C	–
MU0203030603	Antenna	109	41	6.00	C	MU0203020405
MU0203030604	Synchronous Machines	64	61	5.00	C	–
MU0203030605	Electrical Power Transmission & Distribution	78	47	5.00	C	–
MU0203030606	Embedded Systems	33	17	2.00	C	–
MU05	English	33	17	2.00	B	MU01

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
MU0203040701	Control Engineering	94	56	6.00	C	MU0203030501
MU0203040702	Power Systems Analysis	94	31	5.00	C	MU0203030605 MU0203030604
MU0203040703	Power Electronics	79	46	5.00	C	MU0203030604 MU0203020403
MU0203040704	Information Theory & Coding	63	62	5.00	C	MU0203030602
MU0203040705	Digital Electronic	94	31	5.00	C	MU0203030503
MU0203040706	Engineering Project	47	53	4.00	C	–

Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
MU0203040801	Mobile Communication	94	56	6.00	C	–
MU0203040802	Renewable Energy	63	62	5.00	C	–
MU0203040803	Optical Communication	63	62	5.00	C	MU0203030503
MU0203040804	High Voltage Systems	79	46	5.00	C	–
MU0203040805	Computer Networks	63	62	5.00	C	MU0203030506
MU0203040806	Engineering Project & Professional Ethics	48	52	4.00	C	–

8. Contact

Program Manager:

Yasin Yousif Mohammed | Ph.D. in Electrical Engineering | Assistant Prof.

Email: yasinalaboosi@uomustansiriyah.edu.iq

Mobile no.: 07737911619

Program Coordinator:

Hussein Mohammed Hathal | Ph.D. in Electronics Engineering | Lecturer

Email: hussein.m.hathal@uomustansiriyah.edu.iq

Mobile no.: 07702592887