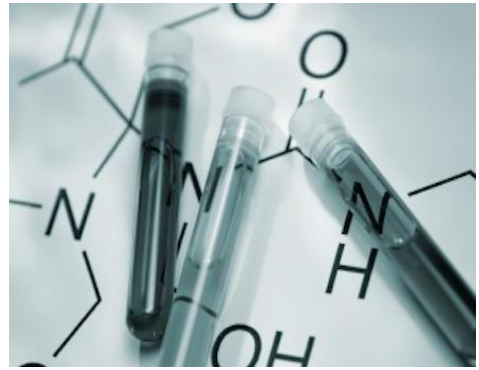
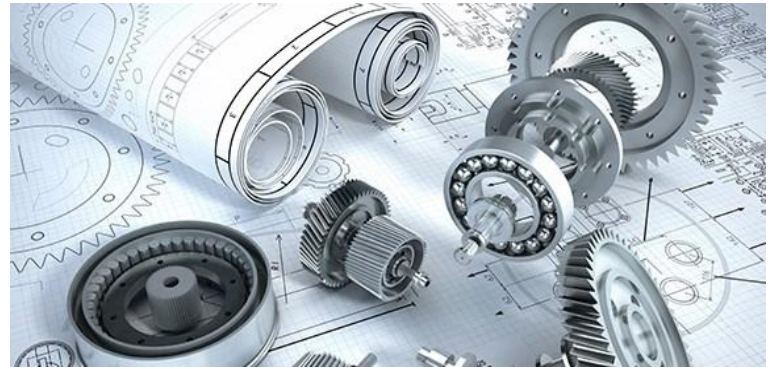
HANDBOOK



جامعة الملك خالد
KING KHALID UNIVERSITY
COLLEGE OF ENGINEERING

رؤية VISION 2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA



KING KHALID UNIVERSITY, ABHA, KINGDOM OF SAUDI ARABIA

DEPARTMENT OF ELECTRICAL ENGINEERING

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KING KHALID UNIVERSITY, ABHA, KINGDOM OF SAUDI ARABIA

King Khalid University

Overview

On Tuesday, 09/01/1419 AH (06/05/1998 AD), the Custodian of the Two Holy Mosques, King Abdullah bin Abdulaziz Al Saud – then the Crown Prince (may God have mercy upon him) – ordered the merger of Imam Mohammad Ibn Saud Islamic University and King Saud University in the Southern Region. This union led to the formation of a new entity named 'King Khalid University'. To solidify this merger, a Royal Decree, number M/78/7, was issued on 11/3/1419 AH (6/7/1998 AD) which mandated the completion of all necessary regulatory procedures. Following this, the university's inaugural budget was released on 14/09/1419 AH (02/01/1999 AD), integrating with the broader state budget and establishing King Khalid University as a distinguished institution within the academic landscape of Saudi universities.

The university is located in the Asir region in the southwestern part of the Kingdom of Saudi Arabia. The Asir region covers an area of about 80,000 square kilometers and is home to more than 1.6 million inhabitants, spread across seventy-eight governorates and centers. King Khalid University operates under the auspices of the Ministry of Education, similar to other Saudi universities

Vision

A globally leading university committed to human empowerment, regional development, and economic enhancement.

Mission

An invigorating academic setting that fosters knowledge creation and application, champions research and innovation, emphasizes societal responsibility and advances sustainable development by maximizing our potential and resources.

University goals:

- Quality assurance in all academic programs and administrative affairs.
- Providing a suitable academic environment to achieve global teaching standards.
- Supporting scientific research to achieve a leading role.
- Applying partnerships with society entities in various institutions.
- Innovation in the employment of technology to achieve knowledge society.

College of Engineering

Vision

To be a pioneer in engineering education, innovative research and sustainable development of the community.

Mission

To achieve academic excellence by providing adequate teaching-learning resources, motivating scientific research, and bringing forth qualified engineers to serve the community.

Objectives

- Academic excellence through the development of curriculum at par with national and international standards.
- Collaboration with colleges/universities for knowledge sharing and benchmarking.
- Support innovative research to contribute to achieving the vision of King Khalid University.
- Interaction with industries to produce trained and skilled graduates, solve real-life problems, and obtain feedback for continuous improvement.
- Contribute to the sustainable development of the community by continuing education, training, and consultancy services.
- Improvement in financial resources.

Electrical Engineering Department

Program Description

The Electrical Engineering Department offers a single major track program "Bachelor of Science in Electrical Engineering". The program is approved by the authorized body (by MoE) via. MoHE/9683 on 05/08/1426. The program duration is five years divided into ten levels (semesters). The first and second levels are considered as 1st-year programs before core academics in the department.

The program was established to satisfy several significant targets like; servicing the industrial community on a scientific basis, transferring electrical engineering knowledge to the local population, qualifying students for research in the electrical engineering area, and qualifying electrical engineers in Electrical Power and Machines, Communications, Computer and Control areas

The Electrical Engineering Department offers graduate programs leading to the degree of Master of Science (M.Sc)in Electrical Engineering by thesis starting from 1439. The program has been designed to reflect the modern trends and developments in the Electrical Engineering curricula by the Saudi Vision 2030. The M.Sc. program has been designed to cope with the modern trends and developments in Electrical Engineering. The program offers students two specialization tracks, (a) Electronics and Communications Engineering and (b) Electrical Machines and Power Systems Engineering. The program enriches the student's knowledge and understanding of advanced concepts in Electrical Engineering and increases their expertise in the specific fields of interest. This program aims to help in providing the Kingdom with distinct graduates to the research centers and critical positions in industry.

Program Vision

Bachelor of science in Electrical Engineering (B.Sc)

Achieve leadership in the field of Electrical Engineering with a high-quality education, instill professional skills and contribute through scientific research for the sustainable development of the community.

Master of science in Electrical Engineering (M.Sc)

To enable the graduates to provide internationally- acclaimed leadership and excellence in academic, research and industrial development related to electrical engineering in the Kingdom.

Program Mission

Bachelor of science in Electrical Engineering (B.Sc)

To endow high-quality education and prepare electrical engineers who are competent in using modern technology effectively for professional practice, innovative problem solving, research, and engagement in community services.

Master of science in Electrical Engineering (M.Sc)

To develop professional competence and the right skills in electrical engineering graduates to conduct research in their respective specialization, thereby contributing to the scientific community and serve the kingdom

Program Educational Objectives (PEOs)

Bachelor of science in Electrical Engineering (B.Sc)

The PEOs of the Electrical Engineering Undergraduate Program which are to be professionally accomplished so that our graduates will be able to:

- Establish themselves in productive and successful careers in electrical engineering or related area and function effectively in interdisciplinary teams involving design and/or support of engineering activities.
- Pursue advanced studies and scientific research and engage in lifelong learning in electrical engineering and allied fields.
- Practice and inspire high technical standards and communicate their work and accomplishments to colleagues and the public.
- Contribute to community service through their technical expertise and skills while maintaining professional ethical conduct.

Master of science in Electrical Engineering (M.Sc)

The main objective of the program is to provide high-quality education to students in key aspects of electrical engineering allowing them to take responsibility and stimulate research and industry in this area. The program also aims to promote and disseminate technology of electrical engineering in the Kingdom and increase demand for advanced electrical engineering technologies in accordance with Saudi Vision 2030. In addition, the program aims to address economic and environmental issues shared with electrical engineering systems. The following is a summary of the main objectives of the program.

- To equip the graduates in applying their knowledge of electrical engineering to foster technical and professional skills
- Make the graduates function effectively in the complex modern work environment with the ability to assume professional leadership roles as part of a team and to develop solutions to electrical engineering problems
- Prepare graduates to have a productive career in many diverse fields of electrical engineering with the capacity of self-learning and to conduct research and improve their expertise by participating in professional programs and conferences
- Prepare graduates for contributing to the sustainable development of the community through their technical expertise and skills while maintaining professional ethics and moral values.

Graduate Attributes (GAs)

GA-1: Scholarship of Knowledge

GA-2: Problem Solving

GA-3: Critical Thinking

GA-4: Usage of Modern Tools

GA-5: Design /development of solutions

GA-6: Communication

GA-7: Ethical Practices and Social Responsibility

GA-8: Independent and Reflective Learning

GA-9: Investigation/research Skill

GA-10: Life-long Learning

Student Admissions Policy

Requirements of admission are published on the weblink https://dar.kku.edu.sa/ar/node and summarized as follows:

- Secondary school certificate (Natural Sciences) or equivalent from inside or outside the Kingdom of Saudi Arabia.
- The score of the "Entrance Examination" is based on an aptitude test and a subject test. The test is conducted by the National Centre for Assessment in Higher Education (https://etec.gov.sa/en/About/Centers/Pages/qiyas.aspx), Kingdom of Saudi Arabia. It consists of two sections. The first section is General Aptitude Test. This test measures students' analytical and deductive skills. It focuses on testing the student's capacity for learning in general regardless of any specific skill in a certain subject or topic. The other section is called "Achievement Test for Science Colleges". This section covers the general and key concepts in Physics, Chemistry, Mathematics, and English covered in the courses of the three years of general secondary school.
- Character certificate from secondary school.
- Appearance in the interviews required by the university council.

- Physical fitness certificate.
- Permission from the employer (For employed candidates).
- No record of suspension/rustication from King Khalid University (KKU) or any other university.

All the above conditions are mandatory for admission to be fulfilled by the applicants. A merit list of all applicants is prepared by the Admission and Registration Deanship based on the following scores:

- Secondary school certificate score (30%).

- Aptitude test score (30%).

- Scholastic achievement admission test (40%).

Rights and Duties of Students and Faculty

Rights of Students and Faculty

- Students and faculty typically have the right to access educational resources such as libraries, laboratories, computing services, and learning support services.
- All members have the right to a learning and working environment free from discrimination based on race, color, religion, national origin, gender, age, disability, or any other protected status.
- Faculty and, to a certain extent, students, are entitled to academic freedom in their teaching, learning, and research, as long as they adhere to the ethical standards and responsibilities of the academic community.

Duties of Students and Faculty

- Both students and faculty are required to comply with the university and departmental policies, including those related to health and safety in laboratories, attendance, examinations, and the use of university resources.
- Members are expected to treat others with respect and dignity, maintaining a professional and courteous environment.
- Faculty must contribute positively to the learning environment through effective teaching, mentoring, and research guidance. Students are expected to engage actively in their learning, participate in classes, and complete assignments diligently.
- For those involved in research, there are additional duties related to ethical research practices, proper data management, and the dissemination of research findings in an honest and responsible manner

  https://www.kku.edu.sa/sites/default/files/general_files/pdf/Administration/guide.pdf

Curriculum plan in Program B.Sc

Pre-requisite chart for the BSc Plan (old plan)

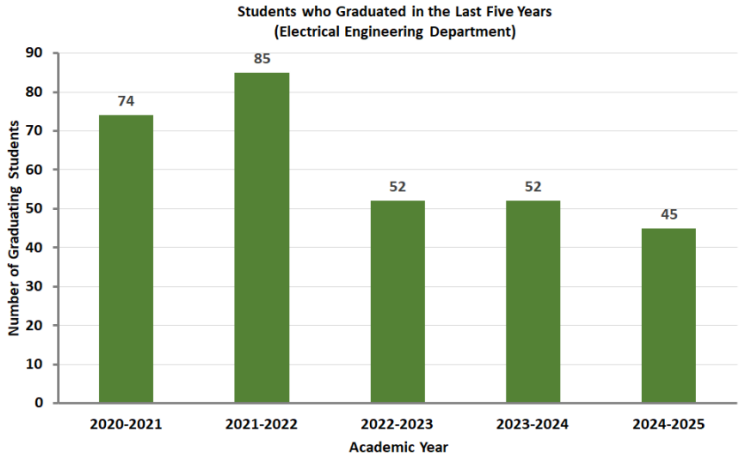
Level	Course Code	Course Title	Pre-Requisite Courses
Level 1	011-ENG-6	Intensive English Program-1	--
	107-CHEM- 4	General Chemistry	--
	119-MATH-3	Differentiation and Integration-1	--
	111-ICI-2	The Entrance to the Islamic Culture	--
	201-ARAB-2	Language Skills	--
Level 2	012-ENG-6	Intensive English Program-2	011-ENG-6
	104-CMS-2	Computer Science	--
	219-MATH-3	Differentiation and Integration-2	119-MATH-
	129-PHYS-4	Physics-1	--
	112-IC1-2	Islamic Culture-2	--
Level 3	111-GE-3	Engineering Drawing	--
	202-ARAB- 2	Arabic Writing	--
	211-EE-3	Electric Circuits 1	219MATH-
	211-GE-2	Learning skills	--
	219-PHYS-4	Physics-2	129-PHYS-
	229-MATH- 3	Differentiation and Integration-3	219-MATH-
Level 4	221-ME-3	Production Technology and	111-GE-3
	221-EE-3	Electric Circuits 2	211-EE-3
	319-PHYS-3	Physics-3	219-PHYS-
	221-GE-2	Creativity and Innovation	--
	222-EE-1	Electric Circuits Lab	--
	319-MATH- 3	Differential Equations	219-MATH-
Level 5	212-ME-2	Engineering Mechanics (statics)	
	311-EE-2	Electrical Measurements	211-EE-3
	312-EE-1	Electrical Measurements Lab	
	329-STAT-2	Principles of Statistics and	
	113-IC1-2	Islamic Culture-3	--
	329-MATH- 3	Linear Algebra	--
	313-EE-3	Logic Design	211-EE-3
	314-EE-1	Logic Design Lab	313-EE-3
Level 6	301-NGL-2	Technical Reports Writing	012-ENG-6
	321-EE-3	Computer Programming	104-CMS-2
	322-EE-3	Signals and Systems	229-
	323-EE-3	Electromagnetics	-MATH-319 129-PHYS-
	324-EE-3	Introduction to Microprocessors and Microcontrollers	313-EE-3
	325-EE-1	Microprocessors and	
	114-IC1-2	Islamic Culture-4	--

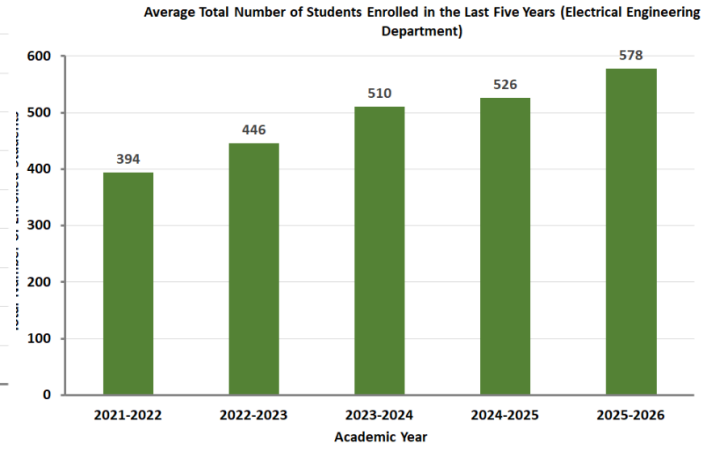
Level	Course Code	Course Title	Pre-Requisite Courses
Level 7	311-ME-2	Engineering Mechanics (dynamic)	
	411-EE-3	Automatic Control	322-EE-3
	412-EE-1	Automatic Control Lab	
	414-IE -2	Engineering and Project Management	
	413-EE-3	Basics of Electronic Devices	221-EE-3
	414-EE-1	Electronic Devices Lab	
	411-GE-2	Professional Ethics and practice	--
	XXX	Free course - 1	--
Level 8	421-EE-3	Electromechanical Energy	221-EE-3
	564-IE-2	Safety and Environment Engineering	
	423-EE-3	Analog Communications	322-EE-3
		Elective -1	
	422-EE-3	Numerical Methods	319-MATH-
	XXX	Free course- 2	
Level 9	511-GE-2	Entrepreneurship and Venture	
	512-EE-3	Digital Signal Processing	322-EE-3
	513-EE-1	Digital Signal Processing Lab	
	514-EE-3	Electric Power System	221-EE-3
	515-EE-1	Electric Power System Lab	
		Elective-2	Refer to
	571-EE-2	Senior Design Project-1	Complete12
Level 10	521-EE-3	Analog and Digital Electronic Circuits	413-EE-3
	522-EE-1	Analog and Digital Electronic Circuits	
	523-EE-3	Digital Control Systems	411-EE-3
		Elective -3	Refer to
		Elective -4	
	572-EE-2	Senior Design Project-2	571-EE-2
List Elective course -1	321-GE-2	Knowledge Management	
	322-GE-2	Design Thinking	
	323-GE-2	System Dynamics	
List of Elective courses (2), (3) and (4	531-EE-3	Electromechanical Energy	421-EE-3
	533-EE-3	High Voltage Engineering	221-EE-3
	534-EE-3	Power System Analysis	514-EE-3
	535-EE-3	Power Electronics	413-EE-3
	541-EE-3	Digital Communication	423-EE-3
	543-EE-3	Antennas and Wave Propagation	323-EE-3
	545-EE-3	Wireless Communication	423-EE-3
	546-EE-3	Communication Systems	423-EE-3
	551-EE-3	Electronic Instrumentation	413-EE-3
	552-EE-3	Embedded Systems Design	324-EE-3
	554-EE-3	VLSI Design	413EE-3
	556-EE-3	Solar Cells and Photovoltaic	514-EE-3

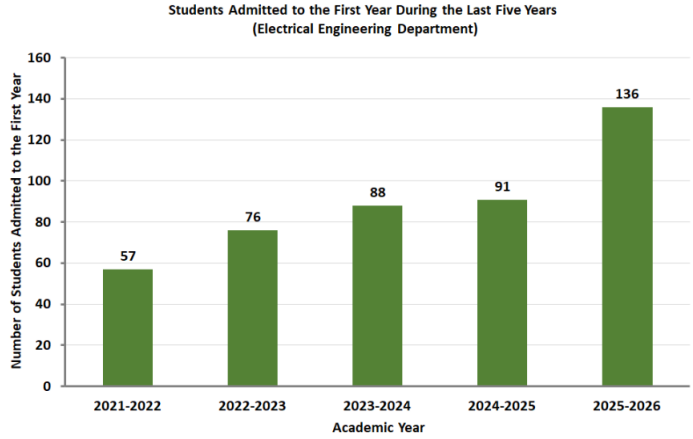
Pre-requisite chart for the BSc Plan (new) in the semester

Level	Course Code	Course Title	Pre-Requisite Courses
Level 1	ENGL 0522	Intensive English Program	--
	ISCL 0212	Moderation	--
	VOLN 0291	Volunteering Skills	--
	CHEM 1413	General Chemistry	--
	MATH 1311	Differentiation and Integration 1	--
Level 2	****	Elective from List 1	--
	ARAB 0221	Writing and Editing Skills	--
	ENGL 1311	Intensive English Program 2	ENGL 0522
	MATH 1312	Differentiation and Integration 2	MATH 1311
	PHYS 1414	Physics 1	--
	STAT 1211	Principles of Statistics and Probability	--
Level 3	ME 2311	Engineering Drawing	--
	PHYS 2411	Physics-2	PHYS 1414
	MATH 2311	Linear Algebra	--
	MATH 3311	Differential Equations	MATH 1312
	GE 2204	Technical and Professional Communications	ENGL 1311
	EE 2200	Electrical Technology and Design	--
Level 4	EE 2401	Electric Circuits 1	MATH 2311
	EE 2302	Computer Programming	PHYS 1414
	MATH 2313	Principles of Complex Variables	--
	MATH 2312	Differentiation and Integration 3	MATH 3311,MATH 1312
	GE 2211	Technical Reports Writing	--
	INE 4214	Engineering Management	--
Summe	COMM 0401	Life and University Skills	--
Level 5	EE3300	Electric Circuits 2	EE 2401
	EE 3301	Logic Design	EE 2302
	EE 3302	Signals and Systems	MATH 2312
	EE 3303	Numerical Analysis	MATH 3311 MATH 2311
	EE 3404	Basics of Electronic Devices	PHYS 2411, EE 2401
	GE 3211	Professional Ethics	EE 2401
Level 6	EE 3305	Electrical Measurements	EE 2200
	EE 3306	Electric Machines 1	EE 3300
	EE 3307	Analog Communications	EE 3302
	EE 3408	Analog and Digital Electronic	EE 3404, EE3301
	EE 3409	Automatic Control	EE 3302
Level 7	EE 4300	Electromagnetics	MATH 2302 PHYS 2411
	EE 4301	Communication Networks	EE 3307
	EE 4402	Introduction to Microprocessors	EE 3301
	EE 4403	Electric Power Systems	EE 3300
	INE 3240	Engineering Economy	--

Level	Course Code	Course Title	Pre-Requisite Courses
Level 8	EE 4800	Co-op Training	Complete 114 credit hours
			GE 2204
Level 9		Free Course 1	--
	EE 5300	Capstone Design Project[2]	Complete 126 credit hours
	EE 5301	Embedded Systems Design	EE 4402
	EE 5402	Digital Signal Processing	EE 3302, MATH 2313
	EE	General elective courses in	Refer to elective course's List 2
	EE	Elective 1	Refer to elective course's List 3
Level 10		Free Course 2	--
	EE 5303	Power Electronics	EE 3404
	EE 5390	Special Topics Electrical Engineering	--
		Elective 2	Refer to elective course's List 3
		Elective 3	Refer to elective course's List 3
		University Requirements Elective	
Elective list	ISCL 0211	Ethics and Values	--
	ISCL 0213	Rights	--
	ISCL 0214	Awareness- building	--
	THPH 0231	Thinking and Philosophy	--
	BUSI 0251	Principles of Entrepreneurship	--
	DITE 0261	Introduction to computer skills	--
	CITI 0271	Citizenship	--
	HETH 0281	Health Awareness	--
	NCUL 0215	Introduction to the national culture	--
	ARTS 0241	Arts	--
	NAHS 0272	National History	--
		General elective courses in electrical engineering List-2	
	EE 5304	Optimization Techniques	MATH 3311
	EE 5305	Application of Artificial Intelligence	EE 3302,STAT 1211
	EE 5306	Digital Control Systems	EE 3409
		Electrical Power and machine List 3	
	EE 5311	Electric Machines 2	EE 3306
	EE 5312	Power System Protection	EE 4403
	EE 5313	High Voltage Engineering	EE 4403
	EE 5314	Power System Analysis	EE 4403
		Communication Engineering List 3	
	EE 5321	Information Theory and Coding	EE 3303
	EE 5322	Wireless Communication	EE 3307
	EE 5323	Antennas and Wave Propagation	EE 4300
	EE 5324	Digital Communications	EE 3407 STAT 1211
		Electronics Engineering List 3	
	EE 5331	Electronic Instrumentation	EE 3404
	EE 5332	VLSI System	EE 4403 EE3404
	EE 5333	Solar Cells and Photovoltaic	EE 3301
	EE 5334	Digital Logic Design with Verilog	EE 2302


Students who Graduated in the Last Five Years
(Electrical Engineering Department)
Number of Graduating Students
90
80
70
60
50
40
30
20
10
0
74
85
52
52
45
2020-2021
2021-2022
2022-2023
2023-2024
2024-2025
Academic Year


Average Total Number of Students Enrolled in the Last Five Years (Electrical Engineering Department)
600
500
400
300
200
100
0
394
446
510
526
578
2021-2022
2022-2023
2023-2024
2024-2025
2025-2026
Academic Year


Students Admitted to the First Year During the Last Five Years
(Electrical Engineering Department)
Number of Students Admitted to the First Year
160
140
120
100
80
60
40
20
0
57
76
88
91
136
2021-2022
2022-2023
2023-2024
2024-2025
2025-2026
Academic Year

Master of Science (MSc) in Electrical Engineering

Program Description

The Department of Electrical Engineering is offering a post-graduate program leading to the degree of Master of Science (MSc) in Electrical Engineering from the academic year 1441. The M.Sc. program has been designed to cope with the modern trends and developments in Electrical Engineering. The program will enrich the student's knowledge and understanding of advanced concepts in Electrical Engineering; and increase their expertise in their specific fields of interest. The M.Sc. program is offered in two tracks: a thesis track comprising 34 credit hours and a non-thesis track comprising 33 credit hours. The program will offer students two specialization tracks, i.e. a) Electronics and Communications Engineering and b) Electrical Machines and Power Systems Engineering.

Program structure in semester mode which was conducted from the academic year 2019-20 to present

Program Structure		No. of Courses	Credit Hours	Percentage
Course	Required	5	3*5 = 15	50%
	Elective	3	3*3=9	30%
Graduation Project (if any)		N/A	N/A	N/A
Thesis (if any)		1	6	20%
Field Experience (if any)		N/A	N/A	N/A
Others (.....)		N/A	N/A	N/A
Total		9	30	100

Program Courses: (A-Non-Thesis Track) Total Credits 34

Level	Course Code	Course Title	Pre-Requisite Courses	Credit Hours
Level 1	7001-EE-3	Simulation of Engineering Systems	NA	3
	7002- EE-3	Advanced Mathematics	NA	3
	7003- EE-3	Modeling of Stochastic Engineering Systems	NA	3
Track: Electronics & Communications Engineering				
Level 2	7004- EE-3	Programming for Engineers	NA	3
	7101- EE-3	Advanced Digital Circuit Design	NA	3
	7102- EE-3	Advanced Communication System	NA	3
Level 3	7103- EE-3	VLSI Fabrication Technology	NA	3
	7104- EE-3	Advanced Digital Signal Processing	NA	3
	7105- EE-3	Special Topics in Electronics Engineering	NA	3
Level 4	7106- EE-3	Special Topics in Communications Engineering	NA	3
	7005- EE-3	Graduation Project	NA	4
Track: Electrical Machines and Power Systems Engineering				
Level 2	7004- EE-3	Programming for Engineers	NA	3
	7201- EE-3	Programming for Engineers	NA	3
	7202- EE-3	Power System Operations	NA	3
Level 3	7203- EE-3	Power Electronics Application	NA	3
	7204- EE-3	Renewable Energy Systems	NA	3
	7205- EE-3	Special Topics in Electrical Machines	NA	3
Level 4	7206- EE-3	Special Topics in Electrical Power Systems	NA	3
	7005- EE-3	Graduation Project	NA	4

Program Courses: (B-Thesis Track) Total Credits 33

Level	Course Code	Course Title	Pre-Requisite Courses	Credit Hours
Level 1	7001-EE-3	Simulation of Engineering Systems	NA	3
	7002- EE-3	Advanced Mathematics	NA	3
	7003- EE-3	Modeling of Stochastic Engineering Systems	NA	3
Track: Electronics & Communications Engineering				
Level 2	7101- EE-3	Advanced Digital Circuit Design	NA	3
	7102- EE-3	Advanced Communication System	NA	3
	7103- EE-3	VLSI Fabrication Technology	NA	3
Level 3	7104- EE-3	Advanced Digital Signal Processing	NA	3
	7105- EE-3	Special Topics in Electronics Engineering	NA	3
	7006-EE	Thesis	NA	6
Level 4	7106- EE-3	Special Topics in Communications Engineering	NA	3
	7006- EE	Thesis	NA	-
Track: Electrical Machines and Power Systems Engineering				
Level 2	7201- EE-3	Programming for Engineers	NA	3
	7202- EE-3	Power System Operations	NA	3
	7203- EE-3	Power Electronics Application	NA	3
Level 3	7204- EE-3	Renewable Energy Systems	NA	3
	7205- EE-3	Special Topics in Electrical Machines	NA	3
	7006- EE	Thesis	NA	6
Level 4	7206- EE-3	Special Topics in Electrical Power Systems	NA	3
	7006- EE	Thesis	NA	-

Electrical Engineering Laboratories

- Electronics Circuits Laboratory
- Logic Circuits Laboratory
- High Voltage Engineering Laboratory
- Electromechanical Devices Laboratory
- Electrical Machines Laboratory
- Measurements Laboratory
- Communication Laboratory
- Electrical Engineering Laboratory

More information related to the laboratories: http://electrical.engineering.kku.edu.sa/en/content/731

Faculty

The Department of Electrical Engineering has an excellent hiring process for faculties to have continuous professional development and facilitate the research work of faculty. The Electrical Engineering department comprises faculty with high academic achievements and a rich experience of teaching in various countries of the globe. In addition to the academic experience, few faculties have experience in industry, consultancy, and professional organizations. The Electrical Engineering faculties have also administrative experience at the college and university levels. One of the Electrical Engineering faculties has been appointing recently as vice Dean of the college. The department head of the academic program is responsible for all aspects of management of the program, including curriculum development, instructional delivery, student assessment, schedule of classes and accreditation matters coordination. The department head discharges his duties through the various academic committees formed of specialized faculties for different aspects of the management of the program. The department head is not responsible for personnel matters. The department head reports to the Dean of the college. The Dean is the administrative position responsible for all aspects of the academic process in the college.

Faculty Workload

The assigned workload of the faculty is as per the University's current regulations and it is according to the academic rank of the faculty. Based on the rank and regulation, the teaching load assigned to the faculty without any extra remunerations is as given below.

1. Professor: 10 credit hours
2. Associate Professor: 12 credit hours
3. Assistant Professor: 14 credit hours
4. Lecturer: 16 credit hours

The faculty having administrative responsibilities, in addition to academics, assigned a lesser teaching load. The teaching load assigned is in line to support the faculty's professional development, educational quality improvement activities and facilitating their research work. The working hours are 40 hours per week. The working hours they are meant for teaching, research, academic advising, laboratory supervision, and any other tasks assigned to them.

Faculty Size

The program maintains a 1:15 faculty-to-student ratio to comply with the workload stipulation of the university guidelines. The designations-wise distribution of the faculty is as follows:

Academic rank	Male	Female
Professor	01	01
Associate Professor	10	00
Assistant Professor	19	02
Lecturer	05	00

In addition to the above faculty, the teaching assistants are also appointed and some of them are sent abroad for higher studies at the expense of the university. The faculties of the Electrical department hail from diverse backgrounds and nationalities i.e. Saudi Arabia, Egypt, Tunisia, India, and Sudan.

Professional Development

Professional development has placed a strong emphasis on developing strong programs in the department. The university supports the faculty's professional development activities. At the department level, it starts with new joining faculty for their professional development. The Head of the Department starts with a short session with each new faculty member explaining what is required for the tenure process, and giving information about sources and infrastructure, as well as their other proposed activities. The Head also assigns department coordinators to new faculty on their arrival for mentoring purposes.

The department faculty is encouraged to undertake research, attend conferences, workshops, and professional development programs, organize national and international conferences and seminars, collaborate with experts in industry and academia for consulting and professional practice, and, where appropriate, pursue higher studies. Faculties are also offered incentives to formulate research proposals in collaboration with other faculties to develop a research culture in the department. The Department Head collects yearly performance profiles of all the faculties and discusses them with the Dean of the College for review and evaluation. The faculties are being awarded in recognition of their efforts in professional development and to develop interests, abilities, and achievements as both teacher and learners.

Table: Faculty Details

Faculty Name	Designation	Academic Position	Email	ResearchGate link
Dr. Mohammed Mastoor AlAmmar	Assistant Professor	Department Chairman	mmalamar@kku.edu.sa	https://www.researchgate.net/profile/Mohammed-Alammar
Dr. Saad Fahad Alqahtani	Associate Professor	Vice Dean Administration	saljabr@kku.edu.sa	https://www.researchgate.net/profile/Saad-Al-Gahtani
Dr. Sondes Abdullah AlQarni	Assistant Professor	Vice Dean Female section	soqarni@kku.edu.sa	https://www.researchgate.net/profile/Sondos-Alqarni
Dr. Mohamed Abbas	Professor	Coordinator Quality and Development Committee	mabas@kku.edu.sa	https://www.researchgate.net/profile/Mohamed_Abbas61
Prof. Syed Suraya	Professor		susyed@kku.edu.sa	https://www.researchgate.net/profile/Suraya-Syed?ev=hdr_xprf
Dr. Abdulilah Mayet	Associate Professor		amayet@kku.edu.sa	https://www.researchgate.net/profile/Abdulilah-Mayet
Dr. Hany S. Hussein	Associate Professor	Coordinator Higher Studies for Masters and Research	hahussein@kku.edu.sa	https://www.researchgate.net/profile/Hany-Hussein
Dr. Javed Khan Bhutto	Associate Professor		jbhutto@kku.edu.sa	https://www.researchgate.net/profile/Dr_Bhutto
Dr. RamKumar Raja Manoharan	Associate Professor		rmanoharan@kku.edu.sa	https://www.researchgate.net/profile/Ramkumar-Raja-2

Faculty Name	Designation	Academic Position	Email	ResearchGate link
Dr. Neeraj Kumar Shukla	Associate Professor		nshukla@kku.edu.sa	https://www.researchgate.net/profile/Neeraj-Shukla-6
Dr. Rajesh Verma	Associate Professor		rkishore@kku.edu.sa	https://www.researchgate.net/profile/Rajesh_verms15
Dr.Zakaria M. Elbarbary	Associate Professor		albrbry@kku.edu.sa	https://www.researchgate.net/profile/Zakaria-El-Barbary
Dr. Mohammed Ali M.Ismail	Associate Professor		moalismail@kku.edu.sa	https://www.researchgate.net/profile/Mohamed-Ismeil
Dr. Hamada Ahmed Hamada Esmaiel	Associate Professor	Coordinator Academic Guidance and Student Affairs	hesmaiel@kku.edu.sa	https://www.researchgate.net/profile/Hamada-Esmaiel
Dr. Abdulwasa Bakr Barnawi	Assistant Professor		abarnawi@kku.edu.sa	
Dr. Abdulrahman Saeed Al Ayidh	Assistant Professor		aalaid@kku.edu.sa	https://www.researchgate.net/profile/Abdulrahman-Al-Ayidh-2
Dr. Abdullah Alharthi	Assistant Professor		asalharthi@kku.edu.sa	
Dr. Fakher Eldin Mohamed Suliman	Assistant Professor		fmsuliman@kku.edu.sa	https://www.researchgate.net/profile/Fakher_Eldin_Suliman
Dr. Monji Zaidi	Assistant Professor		amzaydi@kku.edu.sa	https://www.researchgate.net/profile/Monji_Zaidi

Faculty Name	Designation	Academic Position	Email	ResearchGate link
Dr. Thafasal Ijyas	Assistant Professor	Coordinator Timetable and Examination Committee	ithafasal@kku.edu.sa	https://www.researchgate.net/profile/V-Ijyas
Dr. Mohammed Farrag	Assistant Professor	Coordinator Curriculum and Courses	mfarrag@kku.edu.sa	https://www.researchgate.net/profile/Mohammed-Farrag
Dr. Muneer P.	Assistant Professor		mparayangat@kku.edu.sa	https://www.researchgate.net/profile/Muneer_Parayangat2
Dr. Hassen Loukil	Assistant Professor		hloukil@kku.edu.sa	https://www.researchgate.net/profile/Hassen_Loukil2
Dr. Elfatih Elsheikh	Assistant Professor		eelsheikh@kku.edu.sa	https://www.researchgate.net/profile/Elfatih-Elsheikh
Dr. Shaik Mohammed Irshad	Assistant Professor		sirshad@kku.edu.sa	https://www.researchgate.net/profile/Shaik_Mohammad_Irshad2
Dr. Salman Arafath Mohammed	Assistant Professor		salman@kku.edu.sa	https://www.researchgate.net/profile/Salman_Mohammed7
Dr. Hadi Ahmad Hakami	Assistant Professor		hahakami@kku.edu.sa	https://www.researchgate.net/profile/Hadi-Hakami-2

Faculty Name	Designation	Academic Position	Email	ResearchGate link
Dr. Saad Awad H Alqahtani	Assistant Professor		sahamad@kku.edu.sa	https://www.researchgate.net/profile/Saad_Alqahtani7?ev=hdr_xprf
Dr.Mubark Alghamdi	Assistant Professor		msalgamdi@kku.edu.sa	https://www.researchgate.net/profile/Mubark-Alghamdi?ev=hdr_xprf
Dr. Saad A. Alzahrani	Assistant Professor		saalzhrani@kku.edu.sa	https://www.researchgate.net/profile/Saad-Alzahrani-5
Dr. Musehaf Ebrahim	Assistant Professor		mebrahiim@kku.edu.sa	
Dr. Mahammad Majahar Hussain	Assistant Professor		mhmohamad@kku.edu.sa	https://www.researchgate.net/profile/Mahammad-Majahar-Hussain
Dr. Manal Mohamed Moustafa Emara	Assistant Professor		memara@kku.edu.sa	https://www.researchgate.net/profile/Manal-Emara-2
Er. Abdul Wasay Mohammed	Lecturer		abdulwase@kku.edu.sa	https://www.researchgate.net/profile/Abdul-Wase

Faculty Name	Designation	Academic Position	Email	ResearchGate link
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Er. Saud Mohammed Ali	Lecturer		smalmsaeed@kku.edu.sa	
Dr. Mohammed Abdul Muqeet	Lecturer		mabdulmuqeet@kku.edu.sa	https://www.researchgate.net/profile/Mohammed_Abdul_Muqeet2
Er. Abdelrahim Ahmed Osman Sourab	Lecturer		asorab@kku.edu.sa	https://www.researchgate.net/profile/Abdelrahim-Sourab

Services at King Khalid University

Student Counseling Services

In the continuous pursuit of academic excellence and enhancing a supportive educational environment for our students, the role of the academic advisor emerges as a cornerstone in this process. The responsibility of an academic advisor is not limited to academic guidance alone but extends to encompass multiple aspects that contribute to building the student's academic and professional character. The highlights of the key responsibilities undertaken by the academic advisors in their support and guidance of students, which form an integral part of their educational journey and academic growth

- Introduce the student to their academic plan, encouraging them to progress through it systematically, moving from one level to another without overlapping courses from multiple levels.
- Guide the student on the importance of studying the prerequisites of a course before the course itself.
- In cases where a student is not following their plan regularly, assist them in creating a study schedule that considers the requirements of the courses as much as possible.
- Be aware of the registration, drop, and add dates announced by the Admissions and Registration Deanery.
- Assist students in adding or dropping courses at the beginning of the semester

Creativity and Innovation Unit

The Creativity and Innovation Unit is being set up as the Talent and Innovation Unit at the College of Engineering under the supervision of a unit chairman and head with team members. As a part of it, the unit will prepare a calendar of quality activities and implement it. The Unit will supervise in preparing the Annual Program Reports of the talented students. The Unit will organize related tasks in the College. The Unit will support and guide talented students in the college. The unit aims the following tasks to identify the gifted and talented students.

- Discover and adopt talented students.
- Motivate innovators and invest in their creativity.
- Support innovative projects in the college.
- Finding new sponsors for students with innovative talents.
- Establish a new role in the college to guide and allow innovators to highlight their abilities.
- Arrange innovation events for talents from

Training Unit

The Training Unit at the College of Engineering under the supervision of a unit chairman and head with team members from different departments. As a part of it, the unit aims, to set up training courses, workshops, seminars, and scientific meetings for students. Preparation Summer Training Program. Communication with public and private engineering institutions to facilitate the training of students.

The unit tasks are as follows,

- Set up training courses, workshops, seminars, and scientific meetings for students.
- Preparation Summer Training Program.
- Communication with public and private engineering institutions to facilitate the training of students.

E-Learning

The E-Learning Unit is an integral component of the College of Engineering, designed to enhance and support the digital learning experience for both students and faculty. Under the leadership of a unit chairman and supported by team members from various departments, the Unit focuses on improving the effectiveness of e-learning through various strategic initiatives and support functions.

- The Unit monitors and reports on the progression and efficacy of e-learning practices within the College to continually optimize educational technologies and methodologies.
- It evaluates and troubleshoots electronic examination processes, ensuring a smooth and efficient testing environment.
- Faculty members receive comprehensive technical assistance for utilizing Blackboard, covering virtual classes, content management, assignments, exams, forums, and grading.
- The Unit coordinates and promotes virtual meetings, workshops, and training sessions in collaboration with the Deanship of E-Learning, aimed at enhancing the skills and capabilities of faculty and students.
- It oversees the recording of open courses and the accreditation process for course quality, ensuring high standards are met and maintained.

Saudi Digital Library

The Saudi Digital Library is one of the largest digital libraries in the Arab world, providing extensive digital resources to educational institutions across Saudi Arabia. At King Khalid University, the SDL is an integral resource that significantly enhances the academic and research capabilities of its faculty and students.

- Students and faculty at King Khalid University can access the Saudi Digital Library through direct links provided by the university library's website or through the university's learning management system.
- SDL supports remote access, allowing users to obtain necessary academic materials from any location, which is particularly beneficial for distance learning and off-campus research activities.
- The SDL offers millions of digital resources, including e-books, academic journals, dissertations, and conference proceedings across various subjects.

E-Learning Lab

The E-Learning Lab at the College of Engineering is designed to serve as a central hub for digital education, where students and faculty can access state-of-the-art learning technologies and support. The lab is equipped with advanced software and hardware to facilitate a wide range of e-learning activities, from virtual classrooms to collaborative projects.

- The lab is equipped with high-performance computers, multimedia systems, and software tailored for engineering applications, supporting both teaching and learning needs.
- Equipped with high-quality video conferencing tools, the lab enables live lectures, webinars, and interactive sessions with remote participants.
- Areas within the lab are dedicated to group work, allowing students to collaborate on projects and assignments using digital tools.