

"To meet the international standards as a source of excellence in engineering learning and center of research in the university"

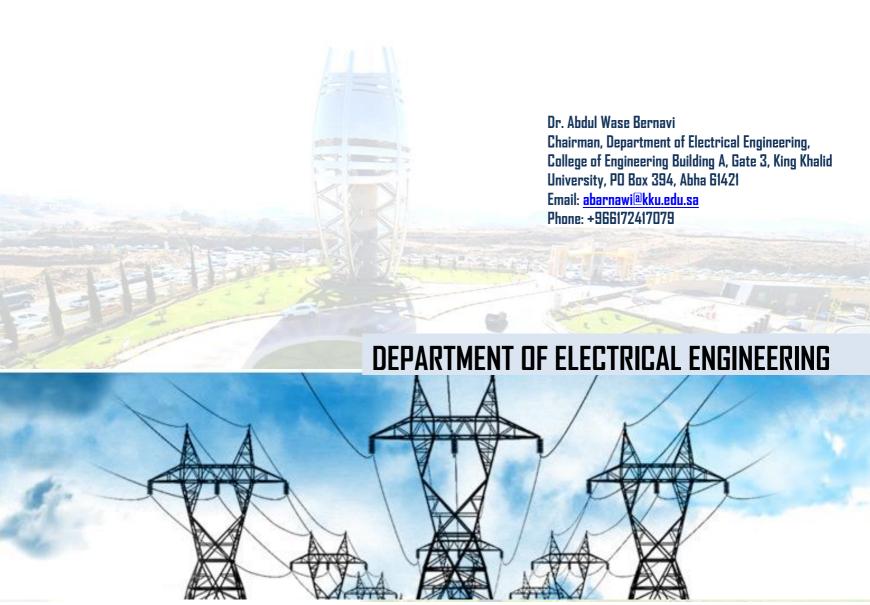




College of Engineering Handbook

King Khalid University, Abha, Kingdom of Saudi Arabia





Electrical Engineering Program Description

The Electrical Engineering Department offers a single major track program "Bachelor of Science in Electrical Engineering". The program 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 program prior to core academics in the department.

The program was established to satisfy several significant targets like; servicing the industrial community on a scientific basic, transfer electrical engineering knowledge for local population, qualifying students for research in 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 in accordance with the Saudi Vision 2030. The M.Sc. program has been designed to cope with the modern trends and development in Electrical Engineering. The program offers students two specialization tracksas,(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.

Electrical Engineering Program Vision

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.

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.

Electrical Engineering Program Mission

B.Sc

To endow high quality education and prepare electrical engineers who are competent to use modern technology effectively for carrying out innovative research and engage in community services.

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)

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.

Pre-requisites for Tri-Semester Courses -Old Plan

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 increasing demand for advanced electrical engineering technologies 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 for fostering 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.

Pre requisite chart for the BSc Plan (old) in Trimester

First Year - First			
Course Code	Crouse Title	Credit Hours	Pre- Requisites/Co- Requisites
013ENG-9	Intensive English Program-1	9	
107CHEM-6	General Chemistry	6	
111GE-4	Engineering Drawing -1	4	
	Number of Hours	19	
First Year –			
119MATH-5	Differentiation And Integration - 1	5	
111IC1-3	The Entrance to the Islamic Culture	3	
014ENG-9			013ENG-9
T-4-1	Number of Hours	17	
First Year –	Number of Hours	- 17	
129MATH-5	Algebra and Geometry	5	
129MATH-5 129PHYS-6			
129PHYS-6 101CS-5	Physics -1 Computer Science	6 5	
	Number of Hours	16	
Second Year -			
211ME-6	Engineering Mechanics	6	
219MATH-5	Differentiation And Integration -	5	119MATH-5
219PHYS-5 Physics -2		5	129PHYS-6
	Number of Hours	16	
Second Year -	Production Technology and		
121ME-4	Workshop	4	111GE-4 119MATH-5,
211EE-5	Electric Circuits -1	5	129MATS-5, 129PHYS-6
112IC1-3	Islamic Culture -2	3	
229MATH-5	Differentiation And Integration -	5	219MATH-5
Total	Number of Hours	17	
Second Year -			
228ME-5	Thermal Dynamics and Hydraulics	5	219MATH-5, 129PHYS-6
221EE-4	Electric Circuits -2	4	211EE-5
222EE-4	Electric Measurements	4	211EE-5
227FF 4			211EE -5
223EE-4 Electronic Engineering		4	210MATHS 5
	Electronic Engineering Number of Hours	4 17	219MATHS-5
			219MATHS-5
Total			219MATHS-5
Total	Number of Hours	17	211EE-5,
Total Third Year— 311EE-4	Number of Hours Electromagnetic Fields	17	
Total Third Year— 311EE-4 113IC1-3	Number of Hours Electromagnetic Fields Islamic Culture -3	17	211EE-5 , 219MATHS-5
Total Third Year— 311EE-4 113IC1-3 319MATH-5	Number of Hours Electromagnetic Fields Islamic Culture -3 Differential Equations	17	211EE-5 , 219MATHS-5 219MATH-5
Total Third Year— 31 1EE-4 11 31C1-3 31 9MATH-5 31 3EE-4	Number of Hours Electromagnetic Fields Islamic Culture -3 Differential Equations Energy Conversion	17 4 3 5 4	211EE-5 , 219MATHS-5
Total Third Year— 31 1EE-4 11 31C1-3 31 9MATH-5 31 3EE-4	Number of Hours Electromagnetic Fields Islamic Culture -3 Differential Equations	17 4 3 5	211EE-5 , 219MATHS-5 219MATH-5
Total Third Year— 31 1EE-4 11 31C1-3 31 9MATH-5 31 3EE-4	Number of Hours Electromagnetic Fields Islamic Culture -3 Differential Equations Energy Conversion	17 4 3 5 4	211EE-5 , 219MATHS-5 219MATH-5
Total I hird Year— 311EE-4 1131C1-3 319MATH-5 313EE-4 Total	Number of Hours Electromagnetic Fields Islamic Culture -3 Differential Equations Energy Conversion	17 4 3 5 4	211EE-5 . 219MATHS-5 219MATH-5 . 221EE-4
Total Third Venr- 31 IEE-4 1131C1-3 31 3MATH-5 313EE-4 Total Third Year- 31 2EE-4	Number of Hours Electromagnetic Fields Islamic Culture -3 Differential Equations Energy Conversion Number of Hours	17 4 3 5 4 16	211EE-5 , 219MATH-5 — 219MATH-5 221EE-4
Total Third Year- 311EE-4 113IC1-3 319MATH-5 313EE-4 Total	Number of Hours Electromagnetic Fields Islamic Culture -3 Differential Equations Energy Conversion Number of Hours Logic Circuits	17 4 3 5 4 16	211EE-5 . 219MATHS-5 . 219MATH-5 . 221EE-4 . 211EE-5 .
Total Third Year- 311EE-4 113IC1-3 319MATH-5 313EE-4 Total Hird Year- 312EE-4 314EE-1	Number of Hours Electromagnetic Fields Islamic Culture -3 Differential Equations Energy Conversion Number of Hours Logic Circuits Electric Testing -1 Technical Reports Writing Frinciples of Complex Variables	17 4 3 5 4 16	211EE-5 , 219MATHS-5 — 219MATH-5 221EE-4 — 211EE-5 — 221EE-4 , 223EE-4 —
Total Third Venr- 311EE-4 113IC1-3 319MATH-5 313EE-4 Total Third Venr- 312EE-4 312EE-4 314EE-1 301NGL-3	Number of Hours Electromagnetic Fields Islamic Culture -3 Differential Equations Energy Conversion Number of Hours Logic Circuits Electric Testing -1 Technical Reports Writing Principles of Complex Variables Principles of Statistics and	17 4 3 5 4 16	211EE-5 , 219MATHS-5 — 219MATH-5 221EE-4 — 221EE-4 — 221EE-4 , 223EE-4 , 014ENG-9
Total Third Year 31 HE-4 H31CL-3 319MATH-5 313ME-4 Total Third Year 312HE-4 314HE-1	Number of Hours Electromagnetic Fields Islamic Culture -3 Differential Equations Energy Conversion Number of Hours Logic Circuits Electric Testing -1 Technical Reports Writing Principles of Complex Variables and Special Functions	4 3 5 4 16 4 1 1 3 3	211EE-5 , 219MATHS-5 — 219MATH-5 221EE-4 — 221EE-4 — 221EE-4 , 223EE-4 , 014ENG-9

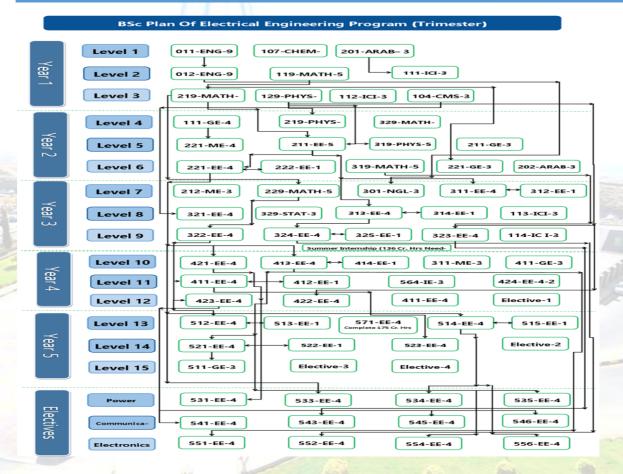
Third Year -Ninth Level			
Course Code	Crouse Title	Credit Hours	Pre- Requisites/Co- Requisites
322EE-4	Signal Processing	4	219MATH-5,
321EE-1	Electric Testing -2	1	319MATH-5 312EE-4,313EE-4
321EE-1 323EE-4	Electric Testing -2 Electronic Circuits -1	4	223EE-4
324FF-4	Computerized Methods for	4	101CS-5,
	Engineering umber of Hours	13	319MATH-5
10.11		1.7	
Summer Internship			
400EE -0	Summer Internship		Completion of 13
	Summer Internally	-	credit hours
Fourth Year-Tenth Level			
201ARAB-3	Arabic Language Skills	3	 221EE-4,
412EE-4	Automatic Control	4	319MATH-5
411EE-4 424IE-3	Principles of Electric Machines Engineering Economy	3	313EE-4
	Engineering Economy umber of Hours	14	
Fourth Year -Eleventh			322EE-4,
413EE-4	Communication Systems	4	322EE-4 , 329MATH-3
114IC1-3	Islamic Culture -4	3	
414EE-4	Computer Organization -1	4	312EE-4 , 329MATH-3
422EE-4	Electronic Circuits -2	4	329MATH-3
	umber of Hours	15	
Fourth Year -Twelfth Lev-	el		
421EE-4	High Voltage Engineering	4	221EE-4
422IE-3	Environment Engineering	3	
423EE-1	Electric Testing -3	1	412EE-4 , 411EE-
424EE-4	Computer Organization -2	4	414EE-4
425EE-4	Electric Power Systems	4	313EE-4
Total N	umber of Hours	16	
Fifth Year-Thirteenth Lev	el		
202ARAB-3	Arabic Editing	3	
511EE-1	Electric Testing -4	1	413EE-4 , 424EE-
512EE-4	Integrated Circuits	4	422EE-4
513EE-4	Microprocessor Based Systems	4	414EE-4 Complete 180 Cr.
591EE-4	Graduation Project	4	Hrs.
Total N Fifth Year–Fourteenth	umber of Hours	16	
Level			
514EE-4	Power Electronics	4	221EE-4, 223EE- 421EE-4, 425EE-
515EE-1 521EE-4	Electric Testing- 5 Operating Systems	1 4	421EE-4, 425EE- 424EE-4
522EE-4	Electric Power System Analysis	4	425EE-4
	umber of Hours	13	
Fifth Year-Fifteenth Level			
523EE-4	Advanced Communication Systems	4	413EE-4
524EE-4	Systems Software Engineering	4	414EE-4
525EE-1	Electric Testing (6)	1	422EE-4, 424EE-
514IE-3	Industrial Project Management	3	
_			
	umber of Hours	12	

Pre requisite chart for the BSc Plan (new) in Trimester

101-ENG9	Course Code	Crouse Title	Credit Hours	Pre- Requisites/Co- Requisites
Total Number of Hours 18	011-ENG-9	Intensive English Program-1	9	
Total Number of Hours	107-CHEM- 6	General Chemistry	6	
	201-ARAB-3	Language Skills	3	
012-ENG-9	1	Fotal Number of Hours	18	
119-MATH-5	irst Year – Second Level			
Total Number of Hours	012-ENG-9	Intensive English Program-2	9	011-ENG-9
Total Number of Hours 17	119-MATH-5	Differentiation and Integration-1	5	_
	111-ICI-3	The Entrance to the Islamic Culture	3	_
219-MATH-5	1	Total Number of Hours	17	
129-PHYS-6				
112-1C1-3			_	119-MATH-5
Total Number of Bours				
Total Number of Hours 17				
111-GE-4				-
219-PHYS-6		total Number of Hours	17	
219-PHYS-6	_evel	Engineering Drawing	4	_
Total Number of Hours 14				129-PHYS-6
Total Number of Hours 14		-		
221-ME-4			14	
211-EE-5 Electric Circuits 1 5 219MATH-5 129PIYS-6 319-PHYS-5 Physics-3 5 219-PHYS-6 211-CE-3 Learning skills 3 -	second Year – Fifth Level			•
211-EE-5 Electric Circuits 1 5 129PHYS-6	221-ME-4	Production Technology and Workshop	4	111-GE-4
319-PHYS-5	211-EE-5	Electric Circuits 1	5	
Total Number of Hours 17	319-PHYS-5	Physics-3	5	
221-EE-4 Electric Circuits 2 4 211-EE-5	211-GE-3	Learning skills	3	
221-EE-4 Electric Circuits 2 4 211-EE-5	1	Total Number of Hours	17	
222-EE-1 Electric Circuits Lab 1	Second Year – Sixth Level			
319-MATH-5 Differential Equations 5	221-EE-4	Electric Circuits 2	4	211-EE-5
221-GE-3 Creativity and Innovation 3 219-MATH-5	222-EE-1	Electric Circuits Lab	1	
202-ARAB-3	319-MATH- 5	Differential Equations	5	
Total Number of Hours 16	221-GE-3	Creativity and Innovation	3	219-MATH-5
212-ME-3				
212-ME-3 Engineering Mechanics (statics) 3		total Number of Hours	16	
229-MATH-5 Differentiation and Integration-3 5 219-MATH-5 301-NGL-3 Technical Reports Writing 3 012-ENG-9 311-E3-4 Electrical Measurements 4 211-E3-5 312-E3-1 Electrical Measurements Lab 1 311-E3-4 Total Number of Hours 16		Engineering Machanics (statics)	3	_
301-NGL-3 Technical Reports Writing 3 012-ENG-9 311-E2-4 Electrical Measurements 4 211-E2-5 312-E3-1 Electrical Measurements Lab 1 311-E2-4 Total Number of Hours 16 Total Number o				219-MATH-5
312-E5-1 Electrical Measurements Lab 1 311-E5-4				
Total Number of Hours 16	311-EE-4	Electrical Measurements	4	211-EE-5
Side	312-EE-1	Electrical Measurements Lab	1	311-EE-4
321-EE-4 Computer Programming 4 104-CMS-3 329-STAT-3 Principles of Statistics and Probability 3 313-EE-4 Logic Design 4 211-EE-5 314-EE-1 Logic Design Lab 1 313-EE-4		Total Number of Hours	16	
329-STAT-3 Principles of Statistics and Probability 3 - 313-EE-4 Logic Design 4 211-EE-5 314-EE-1 Logic Design Lab 1 313-EE-4	Third Year- Fighth Level			
313-E5-4 Logic Design 4 211-E5-5 314-E5-1 Logic Design Lab 1 313-E5-4	321-EE-4	Computer Programming	4	104-CMS-3
314-EE-1 Logic Design Lab 1 313-EE-4	329-STAT-3	Principles of Statistics and Probability	3	
101111111111111111111111111111111111111	313-EE-4	Logic Design	4	211-EE-5
113-IC1-3 Islamic Culture-3 3	314-EE-1	Logic Design Lab	1	313-EE-4
	113-IC1-3	Islamic Culture-3	3	-

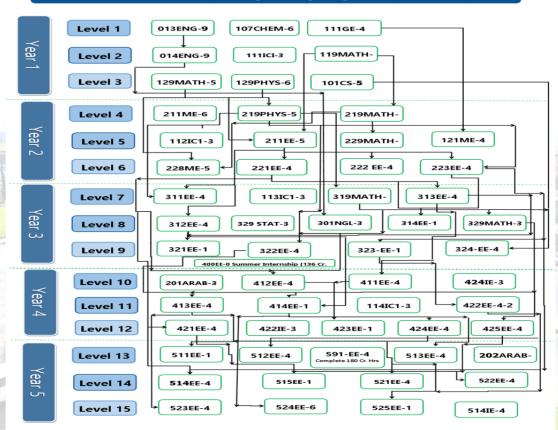
Third Year -Ninth Level	l		
Course Code	Crouse Title	Credit Hours	Pre- Requisites/Co- Requisites
322-FE-4	Signals and Systems	4	229-MATH-5
324-EE-4	Introduction to Microprocessors and Microcontrollers	4	313-EE-4
325-EE-1	Microprocessors and Microcontrollers Lab	1	324-EE-4
323-EE-4	Electromagnetics	4	319-MATH-5, 129-PHY-6
114-IC1-3	Islamic Culture-4	3	
Total	Number of Hours	16	
Summer Internship			
Summer Training	400-EE-0	0	Completion of 136 credit hours
Fourth Year-Tenth Level			
421-EE-4	Electromechanical Energy Conversion – 1	4	221-EE-4
413-EE-4	Basics of Electronic Devices	4	221-EE-4
414-EE-1	Electronic Devices Lab	1	413-EE-4
311-ME-3	Engineering Mechanics (dynamic)	3	
411-GE-3	Professional Ethics and practice	3	
Total Number of Hours		15	
Fourth Year -Fleventh Level			
411-EE-4	Automatic Control	4	322-EE-4
412-EE-1	Automatic Control Lab	1	411-EE-4
564-IE-3	Safety and Environment Engineering	3	
424-FE-4	Special Topics in Electrical Engineering	4	
Total Number of Hours		12	
Fourth Year -Twelfth Level			
423-EE-4	Analog Communications	4	322-EE-4
422-EE-4	Numerical Methods	4	319-MATH-5
411-IE-3	Engineering Management	3	
	Elective -1	3	Refer to elective course lists
Total Number of Hours		14	
Fifth Year-Thirteenth Level			
512-EE-4	Digital Signal Processing	4	322-EE-3
513-EE-1	Digital Signal Processing Lab	1	512-EE-4
571-EE-4	Senior Design Project	4	Complete 175 Cr. Hrs.
514-EE-4	Electric Power System	4	221-EE-4
515-EE-1	Electric Power System Lab	1	514-EE-4
Total Number of Hours		14	
Fifth Year-Fourteenth Level			
521-EE-4	Analog and Digital Electronic Circuits	4	413-EE-4
522-EE-1	Analog and Digital Electronic Circuits Lab.	1	521-EE-4
523-EE-4	Digital Control Systems	4	411-EE-4
	Elective-2	4	Refer to elective course lists
Total	Number of Hours	13	
Fifth Year-Fifteenth Level			
511-GE-3	Entrepreneurship and Venture Engineering	3	
	Elective -3	4	Refer to elective course lists Refer to elective
	Elective -4	4	course lists
Total	Number of Hours	11	

Pre-requisites chart for Tri-Semester courses (old plan)



Pre-requisites chart for Tri-Semester courses (new plan)

BSc Plan Of Electrical Engineering Program (Trimester)



Pre-requisites chart for Tri-Semester courses-New plan



2017-2018

2018-2019

2019-2020

Academic Year

2020-2021

2021-2022

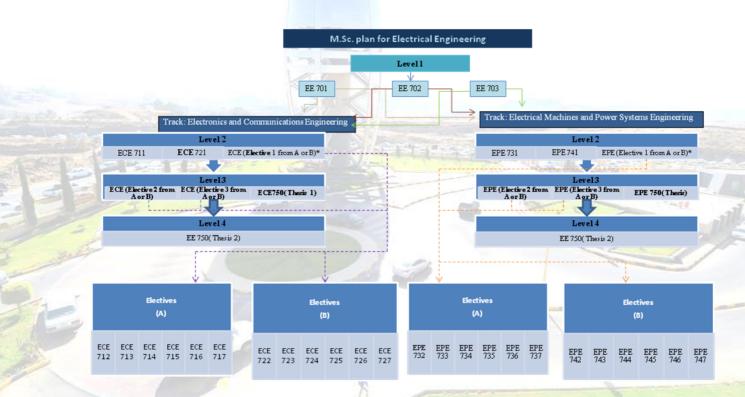
Master of Science (MSc) in Electrical Engineering Program Description

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 development in Electrical Engineering. The program will enrich the student's knowledge and understanding of advanced concepts in Electrical Engineering; increase their expertise in their specific fields of interest. 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 2021-22

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

Program Tree for M. Sc. Program (upaid) which was conducted from the academic year 2019-20 to 2021-22 (Total: 30 Cr Hrs)



The MSc program (unpaid) is revised and implemented as paid program and made it suitable for trimester.

The un-paid version of the program is currently (2022-23) running with modified course codes. The total credit hours for this program changed from **30** Cr. Hrs. (in semester system) to **45** Cr Hrs (in trimester system). Also, the unpaid version of MSc program has been modified to paid version and revised, and is implemented in the academic year 2022-23.

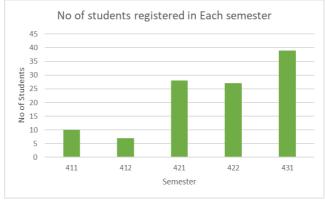
Program structure in trimester system implemented in the academic year 2022-23

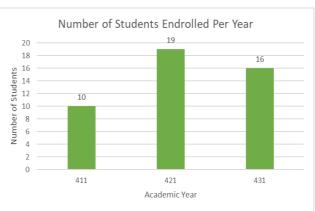
Program Structure		Program Structure No. of Courses		Percentage	
	Required	5	4*5 = 20	50%	
Course	Elective	3	4*3=12	30%	
Graduatio	on Project (if any)	N/A	N/A	N/A	
Thesis(if a	•	1	9	20%	
Field Exp	erience(if any)	N/A	N/A	N/A	
Others ()	N/A	N/A	N/A	
Total		9	45	100	

Level	Course Code	Course Title	Required or	-Pre * Requisite Courses	Credit Hours	/College Departm
Trimester	ELE-4-7001	.Simulation of Engineering Systems	R	-	4	D
1	ELE-4-7002	Advanced Mathematics	R	-	4	D
		Track: Electronics and Communications Eng	ineering			
Trimester 2	ELE-4-7003	Modeling of Stochastic Engineering	R	-	4	D
iiiilestei 2	ELE-4-7101	Advanced Digital Circuit Design	R	-	4	D
Trimester 3	ELE-4-7102	Advanced Communication System	R	_	4	D
Tilliester 5	ELE-4-7103	VLSI Fabrication Technology	R	-	4	D
Trimester	ELE-4-7104	Advanced Digital Signal Processing	R	-	4	D
4	ELE-9-7006	Thesis	R	-	9	D
Trimester	ELE-4-7105	Special Topics in Electronics Engineering	R	-	4	D
5	ELE-9-7006	Thesis	R	-	-	D
Trimester	ELE-4-7106	Special Topics in Communications	R	-	4	D
6	ELE-9-7006	Thesis	R	-	-	D
Trimester	Tra	Modeling of Stochastic Engineering .Systems	Engineering R	-	4	D
2	ELE-4-7201	Generalized theory of electrical machines	R	_	4	D
Trimester	ELE-4-7201	Power System Operations	R	_	4	D
3	ELE-4-7203	Power Electronics Application	R	_	4	D
Trimester	ELE-4-7204	Renewable Energy Systems	R	_	4	D
4	ELE-9-7006	Thesis	R	_	9	D
Trimester	ELE-4-7205	Special Topics in Electrical Machines	R	_	4	D
5	ELE-9-7006	Thesis	R	_	-	D
Trimester	ELE-9-7006	Thesis	R	-	-	D
6	FLF-4-7206	Special Topics in Flectrical Power Systems	R		А	

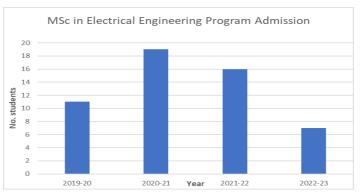
STATISTICS

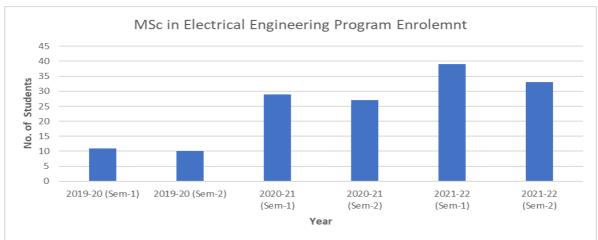
BSC Program





MSc Program





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 excellent hiring process for faculties in order to have continuous professional development and facilitating the research work of faculty. The Electrical Engineering department comprises of faculty with high academic achievements and a rich experience of teaching in various countries of the globe. In addition to academic experience, few faculties have experience in industry, consultancy and professional organizations. The Electrical Engineering faculties have also administrative experience at the college and the university levels. One of the Electrical Engineering faculties has been appoint 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 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 in as per the University 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 are as given below.

Professor:
 Associate Professor:
 Assistant Professor:
 Lecturer:
 Credit hours
 Credit hours

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

Faculty Size

The program maintains 1:15 faculty to student ratio to comply the workload stipulation of the university guidelines. The program has 20 core faculties and designations wise distribution of the faculty is as follows:

- a. Associate Professor8
- b. Assistant Professor 12
- c. Lecturer 9

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

Professional Development

Professional development has given prime importance to develop string program in the department. The university supports the faculty's professional development activities. At department level, it starts with new joining faculty for his professional development. The Head of the Department starts off 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 purpose.

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

Table: Faculty Details

Table: Faculty Details				
Faculty Name	Designation	Academic Position	Email	ResearchGate link
Dr. Abdulwasa Bakr Barnawi	Assistant Professor	Department chairman	abarnawi@kku.edu.sa	
Dr. Saad Fahad Alqahtani	Assistant Professor	Vice Dean Quality	saljabr@kku.edu.sa	
Dr. Mohamed Abbas	Associate Professor	Coordinator Quality and Development Committee	mabas@kku.edu.sa	https://www.researchgate. net/profile/Mohamed_Abba s61
Dr. Mohammed Zubair	Associate Professor	Coordinator Educational Services	mzmohammed@kku.edu.sa	https://www.researchgate. net/profile/Mohammed- Zubair-Shamim
Dr. Hany S. Hussein	Associate Professor	Coordinator Higher Studies for Masters and Research	hahussein@kku.edu.sa	https://www.researchgate. net/profile/Hany-Hussein
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Faculty Name	Designation	Academic Position	Email	ResearchGate link
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