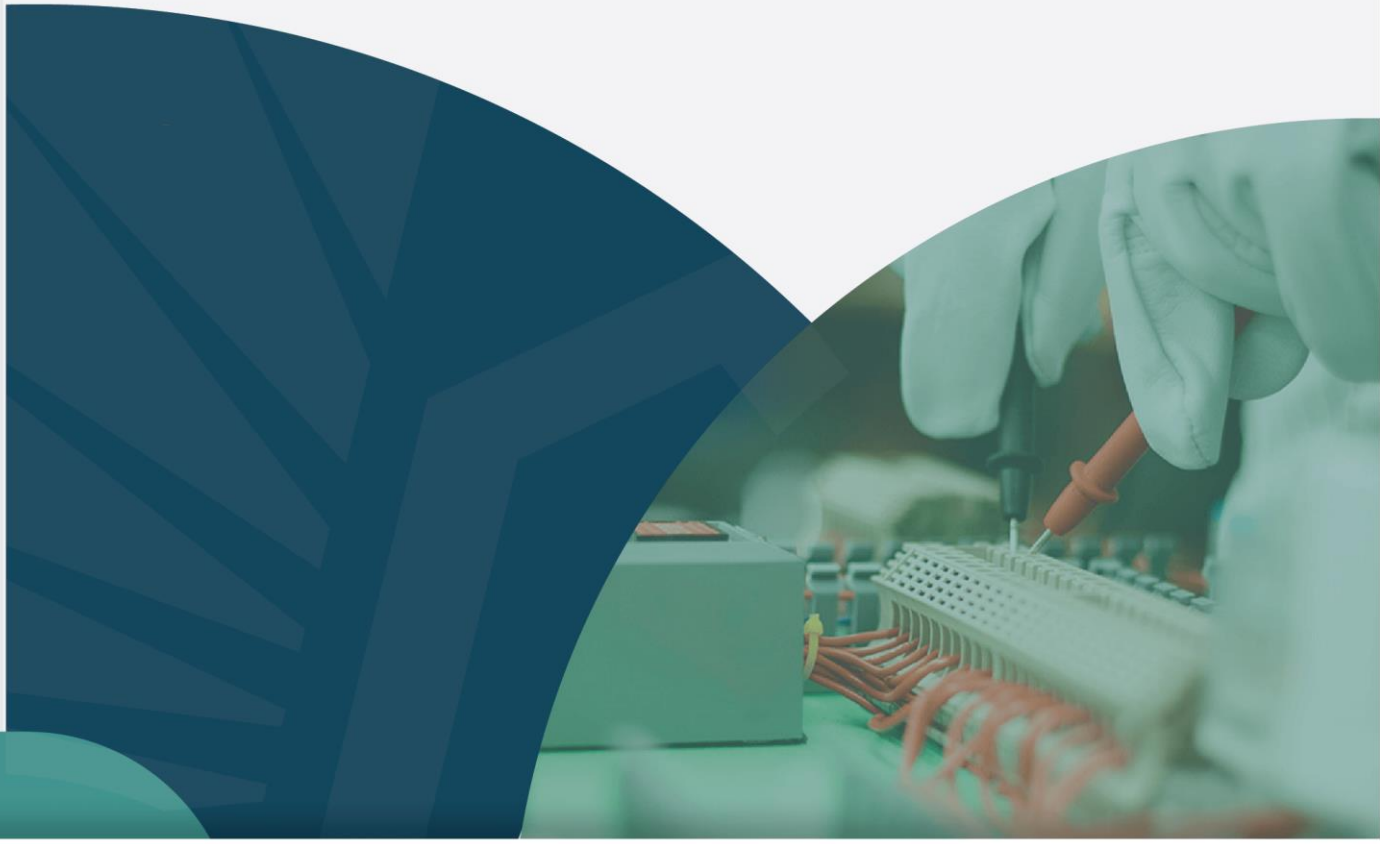
كليـــة الهندســـة
Faculty of Engineering

2006
جامعة تبوك
University of Tabuk



Electrical Engineering Handbook

Faculty of Engineering, University of Tabuk, Saudi Arab

Contents

Introduction

Chairman's Message

On behalf of the faculty and staff, I extend a warm welcome to all students joining the Electrical Engineering Department at our esteemed institution. As the Chairman of the department, it is my honor to guide and support you throughout your academic journey. Electrical engineering is a field that holds immense importance in shaping the world we live in. From designing innovative electronic systems to developing sustainable energy solutions, electrical engineers play a vital role in creating a better future. Our department is committed to providing you with a comprehensive education that encompasses both theoretical knowledge and practical skills necessary for success in this dynamic profession.

This student handbook serves as a valuable resource to acquaint you with the policies, procedures, and guidelines specific to our department. It is designed to provide you with important information that will aid in your academic and personal success. I encourage you to read through the handbook thoroughly and refer to it whenever you have questions or need clarification. The student handbook is not only a reference guide but also a tool for empowerment. It is our hope that by familiarizing yourself with its contents, you will feel confident and supported as you navigate your academic journey.

Once again, I extend my warmest welcome to all the new and returning students of the Electrical Engineering Department. Together, let us strive for excellence and create a positive impact on society through the remarkable field of electrical engineering.

Dr. Khaled Alatawi

Chair, Department of Electrical Engineering

Faculty of Engineering

The Council for Higher Education Issued its decision No. (13/44/1427) dated 21/10/1427 H concerning establishment of the Faculty of Engineering. The decision to establish the faculty came to keep up with the renaissance taking place in the Kingdom in many areas, as the engineering is the profession that employs science to serve the welfare of society as well as to keep pace with the progress in scientific and technological advancement in the twenty-first century. The faculty was established to address the needs of the engineering market at the national and regional levels. The faculty started with its activities and functions from the academic year 1429/1430 H, whereby 80 students have been accepted in the first year. This number of students is continuously increasing every year.

The period of study in the Faculty of Engineering is five years divided into ten semesters (levels) of study. In addition, sixteen weeks of summer training in companies and institutions under the supervision of faculty members are also a must.

Vision

A distinguished and pioneering college locally and internationally in the field of engineering education, innovative research, and building a knowledge society.

Mission

To graduate qualified engineers in accordance with the International Academic Standards and prepare them to meet the changing needs of society. These graduates will be able to compete locally and internationally. The Faculty of Engineering is committed to providing excellent education and pursuing relevant scientific research and partnership with industry and governmental societies.

Goals

1. Provide distinguished academic Education that meets the needs of the labor market.
2. Conduct innovative research to contribute to the knowledge-based economy.
3. Contribute effectively to the sustainable development and community service.
4. Provide motivational and attractive environment.
5. Develop an effective administrative and organizational environment at the college.
6. Provide innovative financial resources.

Department of Electrical Engineering (EE)

On December 11th of the year 2006, the Council for Higher Education approved establishing the Faculty of Engineering at the University of Tabuk in its decision No. (13/44/1427). Afterwards, the Department of Electrical Engineering was established in 2008. The Department was established, in fact, to keep up with the continuous development taking place in the Kingdom of Saudi Arabia in many industrial sectors. It was a necessity to establish an undergraduate Electrical Engineering (ELEN) Bachelor of Science (B.Sc.) program to cope up with the progress in scientific and technological advancements as well as the future demand for electrical engineers. Presently, the department grants distinctions for both a Bachelor of Science in Electrical Engineering and a Master's degree in Renewable Energy. The department has very well-equipped laboratories that can be used by the students to run experiments within the curriculum and by faculty members to conduct research. In addition, the department has advanced computing facilities to assist students and faculty members in their daily work. The department computing facilities are equipped with several design, simulation, and control packages that are used by the students to simulate electrical engineering systems.

Department Vision

To become a leading department that produces ethical and professional leaders who are equipped with the skills and knowledge to drive societal and economic growth through innovative research and development.

Department Mission

To offer programs that emphasize research and development, instill moral values and ethical behavior, and promotes professionalism and societal economic prosperity in a supportive environment.

Department Goals

1. Offer undergraduate and graduate programs that contribute to the advancement of industry.
2. Foster a culture of ethical and responsible conduct among students, faculty, and staff.
3. Provide a supportive learning environment that helps students to acquire the skills and competencies needed to succeed in their careers.
4. Establish partnerships with industry, government, and other stakeholders to facilitate the transfer of knowledge and technology.
5. Continuously assess and improve program offerings, teaching methodologies, and support services to ensure that they are relevant, effective, and responsive to the evolving needs of students, industry, and society.

Bachelor of Science in Electrical Engineering Program

The program started in the academic year of 2008. The program is a five-year (i.e., 10 semesters) program that is offered only for male students and requires a successful completion of 164 credit hours before graduation. The duration of each semester is nineteen weeks including final exams period. Students are required to complete one summer of practical training in the industry under the supervision of both the EE department and the host company where their performance is assessed during and at the end of the training.

B.Sc. in EE Program Mission

To offer a comprehensive education in Electrical Engineering that equips students with technical and professional skills, instills moral values and ethical behavior, and motivates and prepares them to engage in research and community service.

B.Sc. in EE Program Goals

1. Produce competent Electrical Engineers
2. Inculcate moral values and professionalism among students
3. Engage students in community services
4. Empower graduates to contribute towards economic prosperity
5. Enhance students' ability to engage in research.

College Specific Requirements and Expectations

Degree Requirements

The EE B.SC. curriculum is structured in such a way to provide EE graduates with the necessary technical and professional experience for serving and developing society. To obtain a B.Sc. degree in Electrical Engineering, the student must successfully complete 164 credit hours across 10 levels (semesters) of study (5 years), in which 2 credit hours are assigned for practical summer training (8 weeks) in the industry.

The curriculum (164 credit hours) includes 45 credit hours for university requirements (General Education, Mathematics, and Science), 32 credit hours for faculty requirements (General Engineering, Mathematics, and Science), and 87 credit hours for department requirements (69 credit hours for compulsory core course, 12 credit hours for elective courses, 4 credit hours for senior design project (SDP), and 2 credit hours for summer practical training).The table below shows an overall summary the of requirements to obtain the degree.

	Course Title	Course Code	Credit
1	University Requirements	Compulsory	45
2	Faculty of Engineering Requirements	Compulsory	32
3	Electrical Engineering Department Requirements	Compulsory	75
		Electives	12
Total			**164**

General Education Requirements

EE students are required to complete 34 credit hours of General Education courses required by the University and the college. These courses support the students' communication skills and enable them to behave professionally and ethically in multidisciplinary work environments.

	Course Title	Course Code	Credit	Prerequisites
1	English for Technical Fields (1)	ECE001	5	-
2	English for Technical Fields (2)	ECE002	5	ECE002
3	Communication Skills	COMM001	2	-
4	Learning, Thinking, and Research Skills	LTS001	3	-
5	Computer Skills and Applications	CSC001	3	-
6	Language Skills	ARB101	2	-
7	Writing Skills	ARB201	2	ARB101

8	Islamic Cultural (1)	ISLS 101	2	-
9	Islamic Culture (2)	ISLS 201	2	ISLS 101
10	Islamic Culture (3)	ISLS 301	2	ISLS 201
11	Islamic Culture (4)	ISLS 401	2	ISLS 301
12	Engineering Economy	ENG214	2	ENG213
13	Engineering Management	ENG215	2	ENG214
Total			**34**	

General Engineering Requirements

EE students are required to complete 34 credit hours of Engineering fundamentals requirements as listed in the Table below. The majority of these courses must be completed prior to taking EE core courses.

	Course Title	Course Code	Credit
1	Engineering Drawing and Graphics	ENG201	3
2	Production Technology and Workshops	ENG202	3
3	Engineering Mechanics (1)	ENG203	2
4	Introduction to Engineering Design (1)	ENG205	3
5	Introduction to Engineering Design (2)	ENG213	2
Total			**13**

Mathematics and Basic Sciences Requirements

All Electrical Engineering students require a strong Mathematics and basic Science background. This is achieved by taking 36 credit hours distributed across the thirteen courses listed in the Table below:

	Course Title	Course Code	Credit
1	Mathematics	MATH100	3
2	Mathematics (2)	MATH101	3
3	Mathematical Geometry	MATH284	3
4	Differential Equations	MATH383	3
5	Linear Algebra	MATH241	3

6	Complex Analysis and Discrete Math	ELEN220	3
7	Numerical Methods	ELEN322	3
8	General Physics	PHYS101	3
9	Physics	PHYS 205	4
10	General Biology	BIO101	3
11	General Chemistry	CHEM101	3
12	General Chemistry Lab	CHEM203	1
13	General Physics Lab	PHYS281	1
Total			**36**

Program Admission Requirements

1. Pass all preparatory year courses.
2. After completing 45 credit hours (completing the Level 3-second year), the student can choose from the four engineering programs offered (Civil, Mechanical, Electrical, and Industrial).
3. Applications are submitted electronically through the student's academic portal.
4. Admissions are based on students' GPA , selections and the program's capacity, as approved by the Faculty of Engineering Council for that academic year.
5. Dean Approval.

Faculty of Engineering Admission Process Video

https://shorturl.at/hlHL6

Electrical Engineering Structure and Requirements

The curriculum of the EE program has been adapted to let students have the opportunity to specialize, up to a certain depth, in the following three concentration areas. These areas cover the full spectrum of Electrical Engineering activities .This is achieved by a set of compulsory and elective courses. A list of the EE compulsory courses is presented in the below table:

	Course Title	Course Code	Credit
1	Electrical Circuits I	ELEN200	3
2	Electrical Circuits II	ELEN202	3
3	Measurements and Instruments	ELEN204	2
4	Circuit Lab	ELEN203	1
5	Electronics I	ELEN210	3
6	Electronics II	ELEN310	3
7	Electronics Lab	ELEN311	1
8	Probabilistic Methods in EE	ELEN224	3
9	Engineering Programming	ELEN326	3
10	Signals and Systems	ELEN230	3
11	Control Systems	ELEN232	3
12	Control Lab	ELEN233	1
13	Digital Signal Processing	ELEN330	3
14	Electromagnetics I	ELEN240	3
15	Electromagnetics II	ELEN340	3
16	Electromagnetics Lab	ELEN341	1
17	Logic Design	ELEN250	3
18	Logic Design Lab	ELEN251	1
19	Embedded Systems	ELEN352	4
20	Communication Engineering I	ELEN260	3
21	Communications Lab	ELEN361	1
22	Electrical Machines	ELEN370	3
23	Electric Energy Engineering	ELEN372	3
24	Electric Machines and Energy Lab	ELEN373	1
25	Scientific computing	ELEN331	2
26	Power Electronics	ELEN410	3
27	Graduation Project I	ELEN495	1
28	Graduation Project II	ELEN496	3
29	Summer Training	ELEN399	2
Total			**69**

Electrical Engineering Elective Courses

The elective courses offered in the Electrical Engineering program are chosen and designed to serve the Electrical Engineering graduate in his career after graduation. They are designed to provide the senior Engineering student with a realistic understanding of the Engineering design process and synthesis in addition to other Engineering skills required to prepare students for Engineering practice. Students must choose four elective courses each in the final year, based on their interest to work in a specific field.

A. Electric Machines and Power Systems

	Course Title	Course Code	Credit
1	Power Electronics Applications	ELEN412	3
2	Power Systems Analysis	ELEN474	3
3	Renewable Energy & Smart Grids	ELEN476	3
4	Protection of Power Systems	ELEN472	3
5	Special Electric Motors	ELEN478	3
6	Fundamentals of Energy Efficiency	ELEN480	3
7	High Voltage Engineering.	ELEN482	3

B. Electronics and Communications

	Course Title	Course Code	Credit
1	Communication Engineering II	ELEN360	3
2	Antennas	ELEN440	3
3	Wireless Communications	ELEN462	3
4	Optical Communication	ELEN464	3
5	Satellite Communications	ELEN466	3
6	Data Networks	ELEN468	3

C. Control Systems

	Course Title	Course Code	Credit
1	Industrial Automation	ELEN432	3
2	Industrial Motor Control	ELEN436	3
3	Power Systems Operation and Control	ELEN470	3

D. All Areas

	Course Title	Course Code	Credit
1	Selected Topics in Electrical Eng.	ELEN490	3
2	Selected Topics in Electrical Eng. (1)	ELEN491	3
3	Selected Topics in Electrical Eng. (2)	ELEN49	3

Electrical Engineering Program Study Plan

1. 1st Level

	Course Title	Course Code	Contact Hrs		CRs	Prereq.
			Lec.	Lab		
1	English Language Skills I	ECE001	15	0	5	-
2	Learning & Thinking Skills	LTS001	3	0	3	-
3	General Biology	BIO101	3	0	3	-
4	Chemistry	CHEM101	3	0	3	-
5	Mathematics I	MATH100	3	0	3	-
Total			**29**	**0**	**17**	

2. 2nd Level

	Course Title	Course Code	Contact Hrs		CRs	Prereq.
			Lec.	Lab		
1	Comm. Skills	COMM001	2	0	2	-
2	Computer Skills & Applications	CSC001	3	0	3	-
3	English Language Skills (2)	ECE002	15	0	5	ECE001
4	Mathematics II	MATH101	3	0	3	MATH100
5	General Physics	PHYS101	3	0	3	-
Total			**26**	**0**	**16**	

3. 3rd Level

	Course Title	Course Code	Contact Hrs		CRs	Prereq.
			Lec.	Lab		
1	Eng. Drawing and Graphics	ENG201	3	0	3	-
2	Eng. Mechanics (1)	ENG203	2	0	2	PHYS101
3	Introduction to Eng. Design (1)	ENG205	2	2	3	MATH101 ECE002
4	Islamic Culture I	ISLS101	2	0	2	-
5	Mathematical Geometry (3)	MATH284	3	0	3	MATH101
6	Physics	PHYS205	3	2	4	PHYS101
7	General Phys Lab	PHYS281	0	2	1	PHYS101
Total			**15**	**6**	**18**	

4. 4th Level

	Course Title	Course Code	Contact Hrs		CRs	Prereq.
			Lec.	Lab		
1	Electrical Circuits I	ELEN200	3	0	3	MATH101 PHYS205
2	General Chem. Lab	CHEM203	0	2	1	CHEM101
3	Introduction to Eng. Design (2)	ENG213	2	0	2	ENG205
4	Complex Analysis and Discrete	ELEN220	3	0	3	MATH101

	Math					
5	Linear Algebra	MATH241	3	0	3	MATH284
6	Production Tech. and Workshops	ENG202	3	0	3	ENG201
7	Differential Equ.	MATH383	3	0	3	MATH284
Total			**17**	**1**	**18**	

5. 5th level

	Course Title	Course Code	Contact Hrs		CRs	Prereq.
			Lec.	Lab		
1	Electrical Circuits II	ELEN202	3	0	3	ELEN200
2	Electric Circuits Lab	ELEN203	0	3	1	ELEN202, 200(Co)
3	Electronics I	ELEN210	3	0	3	ELEN200
4	Logic Design	ELEN250	3	0	3	ELEN200
5	Signals and Systems	ELEN230	3	0	3	ELEN200 MATH241
6	Electromagnetics I	ELEN240	3	0	3	PHYS205 MATH284
Total			**15**	**1**	**16**	

6. 6th level

	Course Title	Course Code	Contact Hrs		CRs	Prereq.
			Lec.	Lab		
1	Electromagnetics II	ELEN340	3	0	3	ELEN240 MATH383
2	Electromagnetics L.	ELEN341	0	3	1	ELEN203,240, 340(Co)
3	Eng. Programming	ELEN326	2	3	3	CSC001
4	Control Systems	ELEN232	3	0	3	ELEN230 MATH383
5	Electronics II	ELEN310	3	0	3	ELEN202,210
6	Electronic Lab	ELEN311	0	3	1	ELEN203,210, 310(Co)
7	Numerical Methods	ELEN322	3	0	3	MATH241
Total			**14**	**12**	**18**	

7. 7th level

	Course Title	Course Code	Contact Hrs		CRs	Prereq.
			Lec.	Lab		
1	Engineering Econ.	ENG214	2	0	2	ENG213
2	Prob. Methods in EE	ELEN224	3	0	3	ELEN230
3	Embedded Systems	ELEN352	3	3	4	ELEN326,250
4	Electrical Machines	ELEN370	3	0	3	ELEN202 ,340

5	Islamic Culture II	ISLS201	2	0	2	ISLS101
6	Control lab	ELEN233	0	3	1	ELEN232,203
7	Scientific Computing	ELEN331	2	0	2	MATH241 ELEN200
Total			**15**	**6**	**17**	

8. 8th level

	Course Title	Course Code	Contact Hrs		CRs	Prereq.
			Lec.	Lab		
1	Measurements &inst.	ELEN204	2	0	2	ELEN310
2	Comm. Eng. I	ELEN260	3	0	3	ELEN224,230
3	Electric Energy Eng.	ELEN372	3	0	3	ELEN370
4	Electric Machines & Energy Lab	ELEN373	0	3	1	ELEN372(Co), 203
5	Summer Training	ELEN399	0	0	2	-
6	Language Skills	ARB101	2	0	2	-
7	Islamic Culture III	ISLS301	2	0	2	ISLS201
8	Eng. Management	ENG215	2	0	2	ENG214
Total			**14**	**3**	**17**	

9. 9th level

	Course Title	Course Code	Contact Hrs		CRs	Prereq.
			Lec.	Lab		
1	Digital Signal Processing	ELEN330	3	0	3	ELEN230
2	Communication Engineering Lab	ELEN361	0	3	1	ELEN260 - ELEN203
3	Power electronics	ELEN410	3	0	3	ELEN310
4	Graduation Project I	ELEN495	0	2	1	ELEN311 - ELEN370 - ENG213
5	Writing Skills	ARB201	2	0	2	ARB101
6	Elective 1	ELEN4xx	3	0	3	-
7	Elective 2	ELEN4xx	3	0	3	-
Total			**14**	**5**	**16**	

10. 10th level

	Course Title	Course Code	Contact Hrs		CRs	Prereq.
			Lec.	Lab		
1	Graduation Project II	ELEN496	0	6	3	ELEN495
2	Islamic Culture IV	ISLS401	2	0	2	ISLS301
3	Elective 3	ELEN4xx	3	0	3	-
4	Elective 4	ELEN4xx	3	0	3	-
Total			**8**	**6**	**11**	

B.Sc. in EE Program Learning Outcomes (PLOs)

1. An ability to demonstrate knowledge and comprehension with both breadth and depth in the underlying theories, principles, and concepts of electrical engineering and science.
2. An ability to identify, formulate, and solve complex engineering problems by applying principles of electrical engineering, science, and mathematics.
3. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
4. An ability to develop and conduct appropriate experimentation, analyze, and interpret data, and use engineering judgement to draw conclusions.
5. An ability to communicate effectively with a range of audiences.
6. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgements, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
7. An ability to function effectively on a team, whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
8. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Study Strategies for Success

Understand, Don’t Memorize

- Focus on foundational understanding before jumping into problem-solving.
- Use simulations and real-world examples to visualize concepts.
- Effective Note-Taking
- Use methods like Cornell notes or mind maps.
- Summarize lectures into bullet points and key formulas.

Time Management for Studying

- Plan regular, short study sessions rather than cramming.
- Use the Pomodoro technique: 25 minutes study, 5-minute break.
- Practice, Practice, Practice
- Solve past papers and textbook problems.
- Join or form study groups to share learning strategies.

Leverage Resources

- Use platforms like MIT OpenCourseWare, All About Circuits, or Khan Academy.
- Don’t miss office hours and tutorials.
- Link Theory with Practice
- Apply what you learn in labs and projects.
- Work on personal or team electronics projects for hands-on experience.

Senior Design Project

The senior design project (SDP) is an emulation of real-life engineering projects where students develop their technical and professional skills and apply their knowledge to solve a complicated engineering problem. The project is designed to enable the students to practice their research and problem-solving skills and enhance their communication, teamwork, time management and project planning skills. Furthermore, it emphasizes students' understanding of safety polices, ethical issues, conflict of interest as well as social and environmental impacts of engineering solutions.

Students undertaking senior design project work under the direct supervision of a faculty advisor. The students are expected to work on a team on an engineering problem, conduct sufficient literature survey, recognize the objectives of their work and identify any relevant constraints, perform experiments, build prototypes and/or produce simulations as appropriate to their problem, analyze the results and present their work in the form of a report and a presentation.

Steps to Assign Senior Project

Students registered for the course apply for available projects individually or as a team. Students interested in a specific problem may approach a faculty member whose specialty is compatible with the proposed project before the beginning of the term for approval.

The process for project proposals and registration are as follows:

1. Supervisors submit the senior project proposal (SDP Proposal Form).

2. Proposals are presented in a department meeting for approval.

3. Approved proposals are announced to the students for the selection process.

4. Students may apply for one or more of the approved projects (SDP Application Form).

5. If the number of students apply for a project exceeds five, the five students with highest GPAs will be selected.

6. Students are registered with the designated faculty member

Senior Design Project Perquisites and Duration

Students must complete at least 120 credit hours as well as certain courses depending on the field of study prior registering for Senior Design Project I. Then, the student continues their project in Senior Design Project II. The completion of senior design project requires two semesters (1 academic year).

Senior Design Project Guide

https://www.ut.edu.sa/ar/Faculties/engineering/civil/Documents/Senior%20Design%20Project%20Guide.pdf

Field Training:

In order to allow students to experience a real-life Engineering career environment, summer training is offered in the EE program. The Electrical Engineering curriculum requires students to complete eight weeks of summer training in the industry, either at private or government Engineering environments. This training is a compulsory component of graduation requirements. Summer training gives students the chance to combine formal classroom study with relevant practical experience.

Steps to apply for Field Training

1. Students must complete at least 120 Credit hours.
2. Students are required to select the companies they wish to undergo training with through the following link, which is available on the faculty's website. Using University ID and National ID

   https://gate.ut.edu.sa/etrainingstudents/login.aspx
3. During the training, the student is required to submit a weekly report form to their advisor. In this form, the student documents their activities and tasks undertaken during each week.
4. Students are expected to submit a comprehensive report that includes the knowledge and skills they have acquired during the training.

Research and Academic writing tips

Academic writing is about communicating technical ideas clearly, logically, and formally. Your goal is to inform, explain, or argue a point using evidence and structured reasoning.

Writing Structure

Most engineering writing follows a formal structure. Learn and use standard formats such as:

1. **Lab Reports:**
   - Title
   - Objective
   - Methodology
   - Results
   - Discussion
   - Conclusion
   - References

   Research Papers:
   - Abstract – concise summary of your work
   - Introduction – what you're studying and why
   - Literature Review – what others have done
   - Methodology – how you did your work
   - Results & Analysis – what you found
   - Conclusion – summary and implications
   - References – list of all sources used

Develop a Clear Writing Style

- Be precise and concise – especially when explaining formulas, circuits, or technical systems.
- Avoid unnecessary jargon unless required; define all acronyms when first used.
- Use active voice when possible: “We measured the voltage...” instead of “The voltage was measured...”

Support Your Claims

- Use data, equations, figures, and citations to support your statements.
- Include graphs or charts to visualize complex results.

Reference Properly

- Use referencing styles required by your department (e.g., IEEE, APA).

- Tools like Zotero, Mendeley, or EndNote help manage citations easily.
- Always cite others' ideas, even if you paraphrase them.

Do Your Research Thoroughly

- Use Google Scholar, IEEE Xplore, ScienceDirect, and your university library.
- Keep notes while reading articles—write down the main ideas, how they relate to your work, and the citation.

Revise and Proofread

- Don’t submit your first draft.
- Review your work for:
- Clarity and logic
- Grammar and spelling
- Proper citations
- Ask a friend, or advisor to review your draft.

Common Mistakes to Avoid

- Plagiarism: copying text without citation is a serious offense.
- Mixing tenses or inconsistent verb usage
- Overuse of passive voice or filler phrases
- Incomplete figure/table captions

Tips for Research Projects

- Start early—research is time-consuming.
- Choose a topic that genuinely interests you.
- Narrow your focus: one clear objective leads to better depth.
- Document everything—notes, data, changes, ideas—throughout your research journey.
- Ask your advisor questions regularly and be open to feedback.

Learning Resources & Support

Laboratories

The laboratories in use by the EE Department are housed in buildings 11 and 12 on the UT main campus. Each lab is used to serve the experimental component in one or more courses. A short description of these laboratories and equipment in each laboratory, courses served by each lab equipment are provided in detail in the next sections. The laboratories have adequate equipment for carrying out experimental work for courses, senior design projects and research. The laboratories are well maintained and regularly upgraded. The laboratories used by the EE program adequately support the curriculum delivery; These laboratories include:

Lab Name	Lab Location	Related Course
Electrical Circuits Lab	1-12-1-2	ELEN 203
Control Lab	1-12-1-7	ELEN 233
Digital Logic Lab	1-12-1-6	ELEN 251 ELEN352
Electronics Lab	1-12-1-9	ELEN 311
Electromagnetics Lab	1-11-1-11	ELEN 341
Communications Lab	1-11-1-11	ELEN 361
Electrical Machines and Energy Lab	1-12-0-3	ELEN 373
Computer Lab	1-11-1-5	ELEN326 ELEN331

Copyright of computer software

1- Students must abide by all terms of software license agreement and must be aware that ALL computer software is protected by copyright unless it is explicitly labeled as PUBLIC DOMAIN.

2- Students must not copy software for any purpose outside those allowed in that particular software's license agreement.

3- Students must not accept unlicensed software.

4- Students must not install, nor direct others to install, illegal copies of computer software or unlicensed software onto any University-owned or operated computer system.

Laboratories safety Policies and Procedures

https://www.ut.edu.sa/ar/Faculties/engineering/Documents/Laboratory%20Safety%20Policies%20and%20Procedures.pdf

A. Electrical Circuits Lab

In this lab, students learn the basics of electrical engineering and become familiar with the components of the electrical circuit. They also learn how to measure electric current, voltage difference, and resistance and apply some electrical laws such as Ohm's law and Kirchhoff's law.

B. Control Lab

This lab contains the equipment that is necessary to conduct experiments about the basics of control and its application in different systems. They also learn how to adjust the controller to get the desired output.

C. Digital Logic Lab

In this lab, students learn the basics of designing and implementing combinational and sequential digital circuits and systems such as adders, encoders, multiplexers, and counters using logic gates.

D. Electronics Lab

In this lab, students learn the basics of electronics and its components such as diodes and transistors. They also learn how to build and test electronic circuits and some of their applications.

E. Electromagnetic Fields Lab

The Electromagnetic Fields Laboratory contains advanced equipment and software used to conduct experiments about antennas and electromagnetic field theories and their applications in the area of wave propagation, radiation, and radio communication.

F. Communications Lab

The lab includes devices that help students understand the theories of analog and digital communications and used in the broadcasting of radio stations of both AM and FM.

G. Electrical and Power Machines Lab

In this lab, students use different electrical measuring devices and components to conduct basic experiments about electrical power systems and study the general characteristics of power systems such as generators, motors, transformers, loads of various types, and transmission lines.

H. Computer Laboratory

The students of the EE department have access to a computer lab. The systems are supplied with all necessary software for the students to carry out their tasks. Total Number of PCs is 30 with total capacity of the laboratory maximum of 30 students. It is used for teaching different courses like Engineering Programming and Scientific Computing.

Library and Research Resources

The University of Tabuk is committed to providing extensive academic and research resources to support students' learning and research activities. The General Administration of Libraries offers a wide range of electronic, printed, and research services accessible to all Electrical Engineering students.

Library Services Overview

Students have access to:

- Electronic resources including e-books, academic journals, databases, and digital archives.
- Research support for finding, retrieving, and using information from different sources.
- Physical resources such as printed books, reference materials, and official publications.
- Training sessions on how to use research databases, search techniques, and citation management.

The university library also provides:

- Room reservation services for meetings, study sessions, or academic workshops through the Sahel System.
- Borrowing services for printed materials with clear policies for renewal, return, and fines.
- Remote reference services, allowing students to request research help by email or phone.

Digital Library Access

All students have full access to the Saudi Digital Library (SDL)

- More than 11,400 full-text digital references across all academic disciplines.

- Access to major international databases such as:
- IEEE Xplore (Electrical Engineering and Computer Science)
- Scopus (abstract and citation database)
- ScienceDirect (scientific and technical research)
- EBSCO, Springer, Wiley, SAGE, Cambridge, and more.
- Electronic books, journals, conference papers, and theses.

Through the library portal, students can:

- Search by keyword, author, title, subject, or publication date.
- Access resources 24/7 from anywhere using university credentials.
- Download materials, manage citations, and organize research more effectively.
-

Training sessions on how to use the digital library and specific databases are conducted regularly, both in-person and online, helping students and researchers maximize the use of these resources.

B. Research Services Support

The Research Services Unit helps students:

- Search for books, journals, and theses using the electronic catalogue.
- Retrieve information from databases and the internet.
- Locate materials across all branches of the University of Tabuk library system.
- Receive research guidance through personalized support or remote consultation.
- Get help in choosing suitable resources for research projects and theses.
- Improve the quality of academic outputs through research consultations.
- Helping with citation and bibliographic referencing.
- Offering workshops on how to use databases and digital research tools.
- Providing access to information even if not available in the university's collections by cooperating with other libraries or purchasing materials.

Borrowing and Lending Services

Students are eligible to borrow printed books according to the following:

- Undergraduate students: 5 books for 15 days.
- Graduate students: 7 books for 30 days.
- Faculty members: up to 12 books for 90 days.
- Borrowing can be renewed before the due date, and overdue fines apply for late returns. Certain materials such as encyclopaedias, theses, and rare books are not

available for external borrowing but can be accessed within the library.

Copyright

As a general rule, students can make a single photocopy of a "reasonable" proportion of a published work, typically up to 5% of a book, or one chapter of a book, or one article from a journal for own private study. This is permitted under the terms of the Copyright Exception for Personal research & private study.

How to Access Saudi Digital Library

- Visit the University of Tabuk Website.
- Click on "المكتبة الرقمية" (Digital Library) from the homepage.
- Log in using your university credentials to access thousands of digital resources instantly.
- Training videos, live workshops, and online guides are also available to help students become proficient in using the digital library and research tools.

Saudi Digital Library User Guide

Saudi Digital Library Access Guide

Learning Management System (LMS)

The **Learning Management System (LMS)** is an essential tool for managing your learning experience at the University of Tabuk. It serves as the central platform where students access course materials, submit assignments, participate in discussions, and communicate with instructors.

At the University of Tabuk, the LMS used is **Blackboard**.

What You Can Do on Blackboard (LMS)

- **Access Course Materials:**

Download lecture slides, reading materials, assignments, lab instructions, and supplementary resources for each course.

- **Submit Assignments:**

Upload your homework, lab reports, projects, and papers directly through the system before deadlines.

- **Take Quizzes and Exams:**

Many quizzes, midterms, and even final exams are administered through Blackboard. Ensure you follow time limits and instructions carefully.

- **Participate in Discussions:**

Engage in course discussion boards, collaborate with classmates, and contribute to academic forums set by instructors.

- **Track Your Grades:**

View your marks and feedback on assignments, quizzes, and exams throughout the semester.

- **Receive Announcements:**

Stay informed about course updates, deadlines, exam schedules, and other important announcements from your instructors.

- **Communicate with Faculty:**

Send messages to professors and teaching assistants, either privately or through course discussion boards.

How to Access the LMS (Blackboard)

- Visit lms.ut.edu.sa
- Enter your **university email** and **password**.
- Access your list of enrolled courses and select the course you want to open.

For Full Guidance on Using the LMS

Students are encouraged to visit the official University of Tabuk website for complete guides, manuals, and support regarding Blackboard (LMS): Distance Education Unit – University of Tabuk

There, you will find:

- Step-by-step tutorials on how to use Blackboard.
- Video guides for submitting assignments, taking exams, and attending online lectures.
- Troubleshooting tips and technical support contacts.

Academic Counselling Services

Academic Advising is an essential and central pillar of the educational system, and focuses on the two axes of the educational process: the educational institution and the student. This role is strengthened by the specialized academic advisor. Students have the option to communicate with their academic advisors through in-person meetings, email, or by utilizing the virtual services offered by the university.

Academic Advising Guide

https://shorturl.at/ovHX8

Virtual Academic Advising

https://tabuk.blackboard.com/

https://myut.ut.edu.sa/

Exams, Assessment& Academic Integrity

Types of Assessment

In Electrical Engineering, your knowledge and skills are tested in many ways. Each type of assessment helps measure a different aspect of your learning.

Written Exams

- Typically involve problem-solving, calculations, and theoretical questions.
- Common in midterms and finals.
- Focus on accuracy, logic, and time management.

Practical/Lab Assessments

- Evaluate your ability to apply concepts in real or simulated environments.
- May include wiring circuits, programming microcontrollers, or using lab equipment.
- Preparation: Understand theory, follow safety protocols, and document your work clearly.

Oral Exams or Presentations

- Measure your ability to explain complex ideas clearly.
- You may present projects, defend designs, or explain results.
- Tip: Practice in front of friends and anticipate questions.

Projects and Reports

- Show how you apply engineering skills to solve real problems.
- Emphasize teamwork, design process, and professional documentation.
- Include coding, modeling, simulations, or research.

Academic integrity

Academic integrity is the foundation of trust in education and engineering practice.

Avoiding Plagiarism

Plagiarism is a form of cheating and is a serious academic offence. It arises where work submitted by a student is not their own and has been taken from another source. To avoid plagiarism:

- Always cite your sources—even when paraphrasing.
- Use plagiarism checkers before submitting assignments, reports, papers or research
- Never exceed 30% similarity threshold for multiple sources and 5% for single source.
- Never copy solutions from classmates or the internet.

Ethical Conduct

- Don't falsify data in labs or reports.
- Collaborate when allowed but submit individual work when required.
- In projects, share responsibilities and give credit to all contributors.

Why It Matters

- Engineers must be trustworthy and accurate ethics in school prepares you for professional life.
- Violations can lead to disciplinary action and harm your academic record.

EE Program Enforcement and Disciplinary Procedures

The Department of Electrical Engineering at the University of Tabuk enforces a strict academic integrity policy to ensure fairness and professionalism. The procedures include:

Preventive Measures:

- Academic integrity workshops, training on referencing, and the use of plagiarism detection software (e.g., SafeAssign).
- All submissions are monitored through Blackboard with automated plagiarism checking (30% similarity threshold).

Detection and Verification:

- Faculty actively monitor submissions and compare them for originality.
- Students may be asked to defend their work in interviews or oral exams (especially for labs, projects, and field training).
- Practical assessments, raw data logs, and unique assignments are used to confirm individual effort.

Strict Response to Violations:

- In cases of proven cheating in exams or assignments, penalties may include:
- Failing the specific exam or assignment
- Failing multiple courses
- Failing all courses for the semester
- Each case is documented and investigated thoroughly, and decisions are based on severity, past offenses, and the nature of misconduct.

EE Program Procedures to Ensure Academic Integrity

Exam Preparation Strategies and Stress Management

Preparation Tips:

- Start reviewing at least 2 weeks before the exam.
- Use past exams, quizzes, and assignments as study materials.
- Create summary sheets for formulas and key concepts.
- Practice solving problems under timed conditions.

Study Methods:

- Use active recall: test yourself rather than just re-reading.
- Teach the material to a friend or pretend to explain it.
- Create study groups to discuss tough topics.

Managing Exam Stress:

- Get enough sleep, especially the night before.
- Take regular breaks using the Pomodoro technique.
- Use breathing exercises or short walks to clear your mind.
- Avoid last-minute cramming—it adds anxiety and reduces retention.

Feedback and Self-Assessment Techniques

Using Feedback Effectively:

- Review graded assignments and exams to see where you went wrong.
- Ask your instructor for clarification when needed.
- Focus on learning from mistakes, not just the grade.

Self-Assessment Tips:

- After each topic or chapter, ask:
- Can I explain this without notes?
- Can I solve a variety of related problems?

Tips for Excelling in Professional Exams (FE, PE and Jahziah)

If you plan to pursue professional licensing, it is important to start preparing early and strategically.

Understand the Exam Structure:

- For example, the Fundamentals of Engineering (FE) exam includes math, circuits, ethics, and more.
- The **National Exam for Readiness ("اختبار جاهزية")** assesses your knowledge in Electrical Engineering.
- Review the official exam specifications and requirements.

Study Plan:

- Begin preparation at least 3–6 months in advance.
- Use official preparation books, reference manuals, and question banks.
- Take full-length practice exams under timed conditions to simulate the real test environment.

Focus on:

- Core mathematics and science foundations.
- Circuit analysis, electronics, Signal and Systems ad Digital Systems.
- Professional ethics and engineering standards
- Time management and problem-solving strategies

Take Advantage of EE Program Preparation Initiatives:

- The Electrical Engineering program regularly announces **exam preparation workshops, courses, and training sessions** for professional exams.
- Students are encouraged to **participate actively** in these initiatives, as they provide focused support, study materials, and expert guidance aligned with licensing exam requirements.
- Watch for announcements via the department website, Blackboard, and official emails.

Professional & Career Development

How to build a professional network

Building a professional network opens doors to internships, job opportunities, and career mentorship.

Steps to Start Building Your Network:

1. **Engage with Professors and Advisors:**

Attend office hours and seek academic and career guidance.

2. **Join Professional Societies:**

Become an active member of organizations like IEEE, the Saudi Council of Engineers, and technical student chapters.

3. **Attend Program and University Events:**

The Electrical Engineering program regularly organizes:

- **Alumni Guest Speaker Sessions** where former graduates share their career experiences and insights.
- **Professional Expert Guest Lectures** where industry leaders offer guidance on career paths and technical trends.
- **Career Guidance Fairs and Workshops** in collaboration with the Deanship of Student Affairs.

4. **Use LinkedIn:**

Create a professional LinkedIn profile. Connect with classmates, professors, alumni, and professionals in your field.

5. **Participate in Competitions and Projects:**

- The **Faculty of Engineering** holds an **annual projects competition** sponsored by **BAE Systems**, where students showcase innovative engineering solutions and compete for awards and recognition.
- Students also participate in the **Engineering Day**, an annual event where projects are exhibited to faculty members, industry professionals, and invited guests. These activities provide excellent opportunities to network with engineers, recruiters, and technical experts from leading companies.

Internships, Apprenticeships, and Co-op Programs

Internships and practical training bridge the gap between academic learning and real-world application.

Why They Matter:

- Gain hands-on experience and technical skills.
- Understand the day-to-day work of engineers.
- Build your resume with real-world projects.
- Expand your professional network inside companies.

Program Support for Internships:

The **Faculty of Engineering** and the **Electrical Engineering program** actively help students secure internships through strong partnerships with industry leaders, such as:

- BAE Systems
- NEOM
- AECOM
- Saudi Electrical Company
- STC
- Other regional and international companies

Students are encouraged to take advantage of internship announcements made by the program and faculty.

Resume and Cover Letter Writing Tips

Your resume and cover letter are often your first introduction to an employer. Make them professional, clear, and targeted.

Resume Tips:

- Keep it to **one page** (especially for students and new graduates).
- Highlight education, skills, internships, and projects.
- Use strong action verbs (designed, developed, led, analyzed).
- Tailor your resume to each job or internship.
- Include relevant technical skills: programming languages, simulation tools, hardware skills.

Cover Letter Tips:

- Personalize each cover letter to the job and company.
- Introduce yourself clearly: your background, what you're applying for, and why.
- Highlight how your skills match the company's needs.
- Keep it formal, clear, and to the point (no more than one page).
- Support Available:

The Deanship of Student Affairs organizes career development workshops throughout the academic year, covering:

- Resume writing.
- Cover letter preparation.
- Interview skills.
- Job search strategies

These workshops are regularly announced through university emails, social media, and the program's communication channels.

Career Opportunities and Job Market Trends

Electrical Engineering offers a wide range of career paths, and staying informed about the market helps you prepare better.

Growing Career Fields:

- Renewable Energy Systems (solar, wind energy)
- Power Systems and Smart Grids
- Telecommunications and 5G Networks
- Automation and Control Systems
- Robotics and Artificial Intelligence
- Electronics Design and Embedded Systems

Emerging Trends:

- Demand for engineers with programming and AI integration skills is growing.
- Sustainability and clean energy technologies are creating new job opportunities.
- Interdisciplinary skills (combining electrical engineering with computer science or data science) are highly valued.

University Support:

Career fairs, internship days, and industry visits organized by the Faculty of Engineering and the Deanship of Student Affairs provide students with direct exposure to employers and job market expectations.

Where to Look for Jobs:

- Engineering firms, power companies, manufacturing industries.
- Research centers and technology startups.
- Government agencies and regulatory bodies.
- International companies seeking specialized engineers.

Extracurricular Activities and Leadership

Students Organizations and Clubs

Joining student clubs allows you to develop teamwork, leadership, and technical skills outside of the classroom.

Opportunities for EE Students:

Electrical Engineering Community:

An educational platform for developing technical and professional skills in electrical engineering.
The Electrical Engineering Community provides:

- Access to mentorship from experienced engineers and industry experts.
- Workshops in electrical sciences, electronics, and electromagnetics.
- Seminars on academic, professional, and ethical responsibilities.
- Opportunities for skill-building in energy systems design and analysis.
- Networking sessions with industry specialists and alumni.

Engineering Club:

Join activities such as site visits, project showcases, technical talks, and team competitions organized across different engineering disciplines.

Clubs Affiliated with the Deanship of Student Affairs:

The Deanship of Student Affairs oversees a wide variety of student clubs across academic, cultural, artistic, social, sports, volunteering, and innovation fields. Students can join existing clubs or propose the formation of new ones.

Examples of available clubs include:

- Scientific and Academic Clubs (Engineering, Computer Science, Business, Medicine, etc.)
- Volunteering and Community Service Clubs
- Scientific Research Club

How to Join or Start a Club:

Students interested in joining a club or establishing a new one should refer to the Deanship of Student Affairs

For full details of available clubs refer to Students Club Guide by the Deanship of Student Affairs.

Volunteering and Community Engagement

Volunteering not only contributes to the community but also develops soft skills that employers highly value.

How to Get Involved:

Participate in University-Led Initiatives:

The Deanship of Student Affairs frequently announces volunteering opportunities across campus for events, conferences, exhibitions, and community service programs.

Technical Volunteering through the Faculty of Engineering:

The Faculty of Engineering and the Electrical Engineering program organize technical volunteering opportunities annually for students and faculty members. These opportunities include:

- Assisting in STEM outreach activities.
- Supporting technical workshops and competitions.
- Contributing to engineering exhibitions, Engineering Day, and technical fairs.

Volunteering opportunities are announced regularly via the faculty, university emails, and official social media channels.

Recognition of Volunteering Activities:

All approved volunteering hours are formally recognized and will be registered through the **National Platform for Volunteering (المنصة الوطنية للعمل التطوعي)**, enhancing students' official volunteering records and resumes.

Leadership Development Programs

Developing leadership skills early gives you a strong advantage in both academic and professional life.

Student Leadership Development Workshops:

Conducted by the Deanship of Student Affairs throughout the year, covering:

- Team management
- Decision-making
- Public speaking
- Conflict resolution

Innovation, Research, and Entrepreneurship Opportunities

Electrical Engineering is a field full of innovation, students are encouraged to explore research and entrepreneurial projects during their studies.

Opportunities to Get Involved:

- **Senior Design Projects:**
  Innovate and solve real-world engineering problems through your graduation projects.
- **Undergraduate Research Opportunities:**
  Work with faculty members on research in power systems, electronics, renewable energy, and communications.
- **Entrepreneurship Competitions:**

Join competitions organized by the Innovation and Entrepreneurship club Center, or external organizations to pitch your project or startup ideas.

The university and the program provide resources and guidance for students interested in research and innovation.

Personal Well-Being & Work-Life Balance

Time Management Strategies and Productivity Tips

With lectures, labs, assignments, and exams, Electrical Engineering demands strong time management. Use these strategies to stay organized and productive.

Weekly Planning:

- Use a weekly planner to map out classes, study blocks, and project deadlines.
- Allocate specific time slots for each subject and task.

Pomodoro Technique:

- Study for 25 minutes, take a 5-minute break.
- After 4 rounds, take a longer break.
- Helps maintain focus and avoid burnout.

Eisenhower Matrix:

- Categorize tasks as:
- **Urgent & important**: Do now.
- **Important but not urgent**: Schedule it.
- **Urgent but not important**: Delegate or minimize.
- **Neither**: Avoid.

Tools to Stay on Track:

Google Calendar for time-blocking

Notion or Trello for organizing assignments and projects.

Forest app or Focus To-Do to minimize distractions.

Balancing Academics, Social Life, and Personal Time

Academic life doesn't have to come at the cost of your social or personal life. Balance is not only possible, it's essential for long-term success.

Plan with Flexibility:

- Treat social and personal time as important events on your calendar.
- Plan for rest, meals, and relaxation the same way you plan for classes.

Stay Connected:

- Attend student events, join clubs, or play sports.
- Build friendships with classmate, it makes studying more enjoyable and less stressful.

Learn to Say "No":

- Avoid overcommitting to events or side projects.
- Protect your time by setting boundaries around study hours.

Know Yourself:

- Are you more productive at night or in the morning?
- Schedule your toughest tasks during your peak focus times.

Healthy Habits for Physical and Mental Well-being

Your physical and mental health directly impact your academic performance. Developing healthy routines is essential in a demanding program like EE.

Sleep is Non-Negotiable:

- Aim for 7–8 hours per night.
- Poor sleep affects memory, focus, and decision-making.

Eat Smart:

- Don’t skip meals. Keep healthy snacks on hand (nuts, fruits, yogurt).
- Reduce energy drinks—try green tea or water with lemon for energy boosts.

Stay Active:

- Exercise 3–5 times a week. Even 20-minute walks improve focus and mood.
- Stretch between study sessions to reduce stiffness and fatigue.

Stay Hydrated:

- Carry a water bottle. Dehydration leads to fatigue and low concentration.

Coping with Stress and Burnout Prevention

Stress is common in engineering studies, but it can be managed with the right mindset and habits.

Know the Signs of Burnout:

- Constant fatigue or lack of motivation
- Trouble concentrating
- Emotional exhaustion
- Losing interest in things you enjoy

Stress Management Tips:

- Practice deep breathing or mindfulness (use apps like Headspace or Calm).
- Journal your thoughts and frustrations, it brings clarity.
- Take short, device-free walks outdoors.

Talk About It:

- Reach out to friends, academic advisors, or mental health counselors.
- You're not alone, many students go through the same challenges.

Build a Balanced Routine:

- Don’t over-study. Mix study time with breaks, hobbies, and sleep.
- Plan “no-study” evenings once a week to fully rest.

University mental health services and wellness programs

Your mental health and well-being are just as important as your academic success. The University of Tabuk provides comprehensive mental health support and wellness programs to help students maintain balance, manage stress, and thrive personally and academically.

University Mental Health Services

The university offers professional psychological and counseling services through the Student Guidance and Rights Unit under the Deanship of Student Affairs**.**

Services Include:

- **Individual Counseling:**

Private sessions to address personal, academic, or emotional challenges.

- **Group Counseling:**

Group therapy sessions for students facing common challenges like stress management or academic pressure.

- **Crisis Intervention:**

Immediate support in case of psychological emergencies or critical stress situations.

Consultations in Key Areas:

- Psychological health support
- Quality of university life
- Exam periods support and stress management.
- Solving university life challenges
- Psychological and social compatibility support

Confidentiality:

All counseling services are strictly confidential to ensure a safe and supportive environment.

University Wellness Programs

The University also organizes ongoing wellness activities to promote healthy living and stress management announced regularly through email, and social media.

Wellness Activities Include:

Workshops and Seminars on:

- Stress management.
- Time management
- Mindfulness and relaxation
- Healthy lifestyle habits
- Emotional resilience building

Awareness

Campaigns:

Annual events promoting mental health awareness, fitness, and preventive health.

Sports and Fitness Facilities:

Access to gyms, swimming pools, and sports fields.

How to Access Mental Health and Wellness Services

Students can easily reach out for support or book appointments:

Contact Method	Details
Email	srights@ut.edu.sa
Phone	+966 144563216
Appointment Booking Form	Click here to book an appointment

University Policies & Regulations

Academic Policies

Student Academic Guide

Provides comprehensive guidance for students on academic policies, course registration, grading, examinations, and graduation requirements.

Study and Tests Regulations

Provides comprehensive guidance for students on academic policies, study rules and examinations

Code of Conduct: Expected behavior on campus and in online settings, and Students rights and responsibilities.

Academic Integrity: Students Guide

Equality, Diversity, and Inclusion Policy

Campus Security & Emergency Protocols: Emergency contact numbers and procedures; policies on campus safety.

Use of University IT Resources: Internet usage guidelines and cybersecurity rules; policies on using Blackboard and other learning platforms

Essential Information & Quick Reference

Important Contacts

Program Faculty Members

Faculty Name	Rank	Area of Expertise	Email
Ibrahem E. Atawi	Associate Professor	Power Systems Control & Renewable Energy	ieatawi@ut.edu.sa
Khaled Alatawi	Assistant Professor	Electrical Power Engineering	khaled@ut.edu.sa
Ahmed Alzahmi	Assistant Professor	Electronics and Communications	aalzahmi@ut.edu.sa
Fahad Almasoudi	Assistant Professor	Electrical Power Engineering	falmasoudi@ut.edu.sa
Fares Almehmadi	Associate Professor	Communications Engineering	fal_mehmadi@ut.edu.sa
Hani Albalawi	Associate Professor	Electrical Power Engineering	halbala@ut.edu.sa
Muawia Mahmoud	Associate Professor	Instrumentation and Control	mmahmoud@ut.edu.sa
Saeed Alzahrani	Assistant Professor	Electronics & Communication Engineering	saeedalzahrani@ut.edu.sa
Iyad Alewaidat	Lecturer	Communication Engineering	ialewaidat@ut.edu.sa
Mohamed Ewis Tawfik Ahmed	Assistant Professor	Automatic control systems	moahmad@ut.edu.sa
Aadel Alatwi	Associate Professor	AI, Communication systems, speech and coding recognitions,	adalatawi@ut.edu.sa
Amir Abdelfattah Ahmed Eisa	Associate Professor	Electrical Power Engineering	a_eisa@ut.edu.sa
Husam S. Samkari	Assistant Professor	Electrical Power Engineering	hsamkari@ut.edu.sa
Shaikh Hasibul Majid	Assistant Professor	Biomedical Electronics	smajid@ut.edu.sa
Sherif Ahmed Zaid Farag	Professor	Power Electronics	shfaraj@ut.edu.sa
Mohammad Altimania	Assistant Professor	Power Engineering	moh-doshan@ut.edu.sa
Hassan Abdeldaiem	Assistant Professor	Electrical Power System	habdaldaiem@ut.edu.sa
Taha Khalaf	Associate Professor	Communications and Electronics	takhalaf@ut.edu.sa
Hadi Aggoune	Professor	Power Systems	haggoune@ut.edu.sa
Hazem El-Hageen	Associate Professor	Electrical Communications	helhageen@ut.edu.sa
Fares Alromithy	Assistant Professor	Biomedical Engineering	falromithy@ut.edu.sa
Mohammed Allehyani	Assistant Professor	Power systems	mallehyani@ut.edu.sa

University of Tabuk Mobile Application

The University of Tabuk Mobile App helps students easily access essential services. Through the app, students can manage course registration (add/drop), view grades, access academic records and study plans, and submit complaints or support requests. The app uses the student university ID as the username and the portal password for login.

It is available for download on:

Apple App Store

Google Play Store

Students are encouraged to use the app to simplify their academic and administrative tasks and stay updated throughout their studies.

Emergency Contacts

Contact	Details
University Security	+966144561600
University Medical Center	+966144564400
Emergency	911

Useful Links:

1. Electrical Engineering Department
   https://www.ut.edu.sa/ar/Faculties/engineering/Electrical/Pages/default.aspx
2. UT Deanship of Students Affairs
   https://www.ut.edu.sa/en/Deanship/student-affairs/Pages/default.aspx
3. Saudi Council of Engineers
   https://www.saudieng.sa/English/Pages/default.aspx
4. Institute of Electrical and Electronics Engineers
   https://www.IEEE.gov
5. ASTM International-Standards Worldwide
   https://www.astm.org/
6. Electrical Enigneeing Portal
   https://electrical-engineering-portal.com/
7. Association of Energy Engineers
   https://www.aeecenter.org/
8. The Renewable Energy Institute
   https://www.renewableinstitute.org/
9. Project Management Institute
   https://www.pmi.org/
10. National Renewable Energy Laboratory (NREL)
    https://www.nrel.gov/