جامعة الأميرة نورة بنت عبدالرحمن
Princess Nourah bint Abdulrahman University

Student Handbook

College of Engineering
Department of Electrical Engineering
Communications Engineering

1445-2024

Valid for One Year
Prepared by the Academic Advising and
Student Activities Committees

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1. Introduction

1.1. PNU University Vision

To be the beacon of women for knowledge and values

1.2. PNU University Mission

It is a comprehensive university for women, which is characterized by its educational leadership and scientific research and contributes to building the knowledge economy with a community and global partnership.

1.3. PNU University Values

Belonging, integrity, trust, superiority, excellence, commitment to quality, and professionalism.

1.4. University Graduate Attributes

A graduate attributes assessment measures the extent to which students have acquired the knowledge, skills, and values considered essential to their personal and professional success. A crucial part of developing graduate attributes in higher education institutions is to assess students' attainment of these attributes.

Graduate Attributes Assessment Tools

No.	Graduate Attribute	ILOs	Direct assessment tool	Indirect assessment tool
1.	Knowledgeable	Demonstrate both broad and in-depth understanding of discipline area(s).	Exit exam	Surveys of stakeholders (Students, alumni, faculties, and employers)
2.	Effective Communicator	Present ideas clearly, concisely, and with high quality, in both oral and written form.	Assessment Rubrics	
3.	Digitally enabled	Live, learn, and work in a digital society.	Assessment Rubrics	
4.	Critical thinker	Apply critical, creative, evidence-based thinking, and research skills to devise innovative responses to problems and challenges.	Exit exam	
5.	Ethically and Socially Responsible	Value integrity, ethics, social responsibility, and volunteer work.	Assessment Rubrics	
6.	Employable professional	Demonstrate high levels of leadership, professional responsibility, and commitment to lifelong learning.	Assessment Rubrics	

2. About College of Engineering

2.1. Vision

Distinctive leadership for women in engineering education, scientific research, and community service.

2.2. Mission

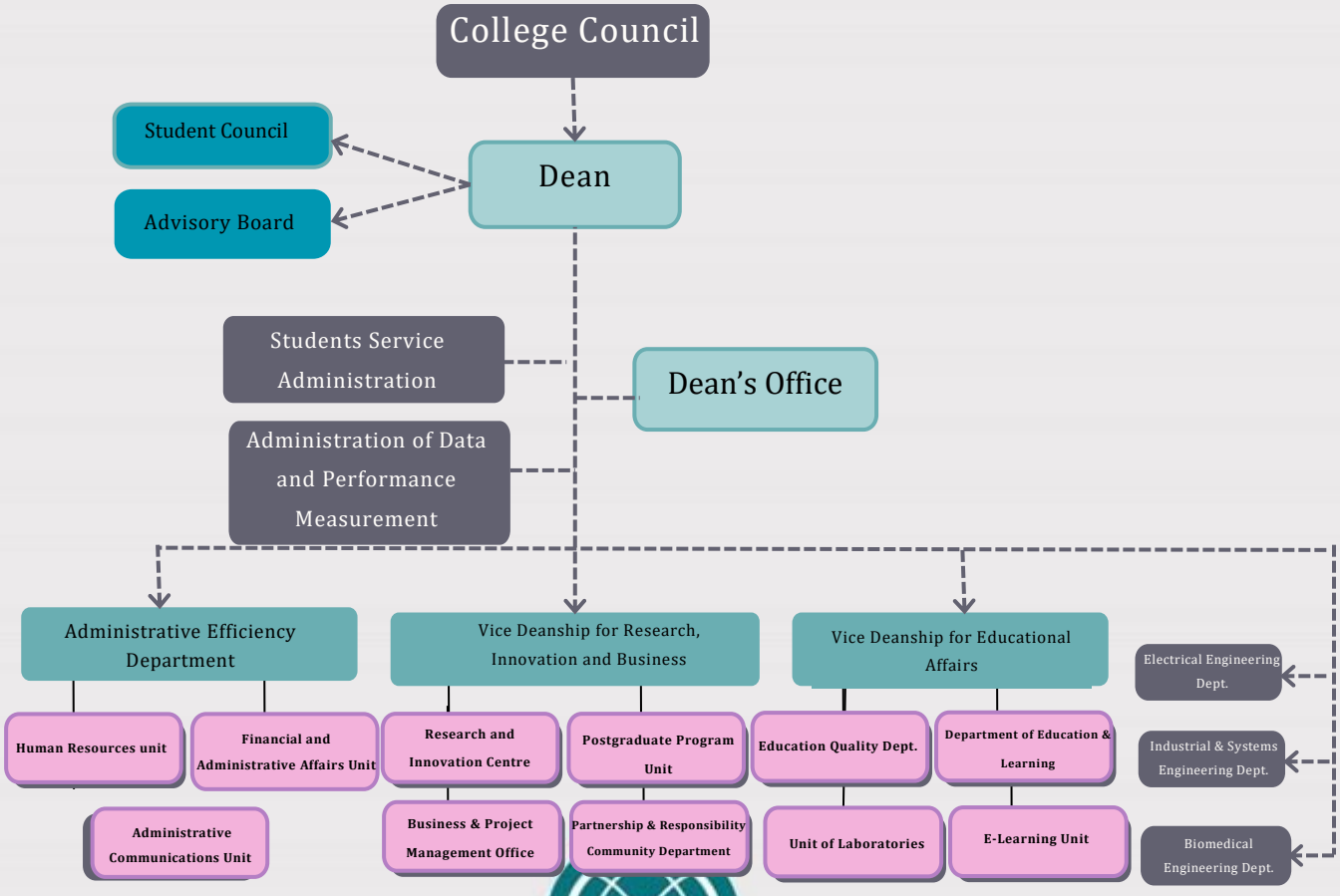
Qualifying female engineers who are distinguished cognitively and professionally in an innovative educational and research environment to enhance national identity and support sustainable development economically and socially.

2.3. College of Engineering Strategic Goals

The College of Engineering at Princess Noura University relies on 3 strategic goals to achieve its vision and mission:

- Providing academic programs that ensure improving the quality of educational outcomes.
- Enhancing scientific and research production in the engineering field.
- Promoting sustainability and institutional advancement.

2.4. CEN Organizational Structure



3. About the Department

The Department of Electrical Engineering was established in 1439 AH (corresponding to 2018 AD) to align with the Kingdom of Saudi Arabia's 2030 Vision goal of increasing women's contribution in the job market, particularly in the engineering sector. The department aspires to be a leading model in qualifying female engineers both locally and internationally. The Department of Electrical Engineering offers three programs: Electronics Engineering, Communications Engineering, and Renewable Energy Engineering.

3.1. Vision

Excellence in all specialties and fields of electrical engineering, promote and support scientific research, and foster a strong commitment to social responsibility and sustainable development.

3.2. Mission

Prepare highly qualified female electrical engineers who are capable of competing effectively, both locally and globally, by providing them with a comprehensive academic environment that aims to develop their knowledge and skills, supports innovation and scientific research, in order to contribute to the attainment of national goals of sustainable development and community service.

3.3. Goals

Electrical Engineering Department aims to:

- Provide renewed educational programs in electrical engineering fields, that keep pace with the latest technologies, ensuring quality and efficiency in teaching and learning, to graduate distinguished female engineers capable of competing in the job market.
- Support innovation and continuous development in scientific research in the field of electrical engineering to serve the community and achieve sustainable development goals.
- Promote social responsibility and volunteer work through communication and collaboration with community organizations.
- Promote the values of scientific integrity and professional ethics in the electrical engineering fields.

3.4. Department Committees

Committee's name	Committee's Tasks
Academic Advising Committee	▪ Determining the academic advisor for each department's student and preparing advising lists at the beginning of the semester. ▪ Advising and guiding students in all academic affairs, including preparing schedules, exams, failure follow-up, etc. ▪ Mentoring struggling students and lifting all necessary for them. ▪ Submitting the committee's works and reports by the end of semester to the department's head. ▪ Archiving all the committee's work, minutes, and reports on an electronic cloud and sharing them with the department's head.
Students' Activities Committee	▪ Following the students' activities in cooperation with Student Services Unit in College of Engineering. ▪ Submitting the committee's works and reports by the end of semester to the department's head. ▪ Archiving all the committee's work, minutes, and reports on an electronic cloud and sharing them with the department's head.
Cooperative and On Job Training Committee	▪ Communicating with various entities to provide training opportunities for students of Electrical Engineering Department. ▪ Collecting the information of training entities and the number of trainees students. ▪ Conducting introductory meetings of the training programs for Electrical Engineering Department students. ▪ Submitting the committee's works and reports by the end of semester to the department's head. ▪ Archiving all the committee's work, minutes, and reports on an electronic cloud and sharing them with the department's head.

Graduates Committee	▪ Creating databases of graduates and employers that includes their information and communication methods in coordination with the graduate's unit in College of Engineering. ▪ Following the staff and non-staff graduates in coordination with the graduate's unit in College of Engineering. ▪ Collecting the responses of employer satisfaction surveys and providing them to the Questionnaires and Performance Indicators Committee in College of Engineering. ▪ Submitting the committee's works and reports by the end of semester to the department's head. ▪ Archiving all the committee's work, minutes, and reports on an electronic cloud and sharing them with the department's head.

4. About the Program

4.1. Mission

Prepare scientifically and professionally highly qualified female communications engineers, who possess research and leadership skills, enabling them to effectively utilize modern technologies and work efficiently across various fields of communications engineering, to keep pace with changes in the job market and serve the community.

4.2. Goals

- Enhance the quality and efficiency of education and learning for the communications engineering program to prepare distinguished graduates equipped with scientific theories, practical skills, competitive abilities, and a strong sense of professional ethics, enabling them to keep pace with market changes.
- Link scientific research with the requirements of sustainable development in the Kingdom of Saudi Arabia and community needs.
- Promote community partnerships in communications engineering fields.

4.3. Program Learning Outcomes

Knowledge and understanding	K1	Define knowledge of mathematical concepts including differential and integral calculus, probability, and statistics, along with their applications in the field of Communications Engineering.
	K2	Recognize electrical engineering principles including processes, materials, techniques, and practices in the field of Communications Engineering.
	K3	Identify specialized knowledge based on new developments related to the field of Communications Engineering.
	K4	Integrate knowledge of research methodologies in reports and research related to the field of Communications Engineering.
Skills	S1	Apply Basic concepts, theories, and mathematical principles to solve complex problems related to the field of Communications Engineering.
	S2	Conduct complex practical tasks and procedures related to Communications Engineering by applying advanced processes, techniques, tools, and instruments.
	S3	Design a system, component, or process to solve Communications Engineering problems while considering realistic constraints (cultural, social, environmental, economic, health, and safety).
	S4	Evaluate contemporary issues and problems in Communications Engineering, components, and processes using critical thinking and creative solutions in various complex contexts.
	S5	Communicate effectively Demonstrate theoretical knowledge comprehension and specialized transfer of knowledge, skills, and complex ideas.
Values, Autonomy, and Responsibility	V1	Execute work teams by providing leadership and creating a collaborative and inclusive environment while establishing goals to meet and planning tasks.
	V2	Demonstrate commitment to professional and academic values and standards and ethical code of conduct as experts in the field of Communications Engineering.

4.4. Job Areas

Communications engineers can work in the following opportunities:

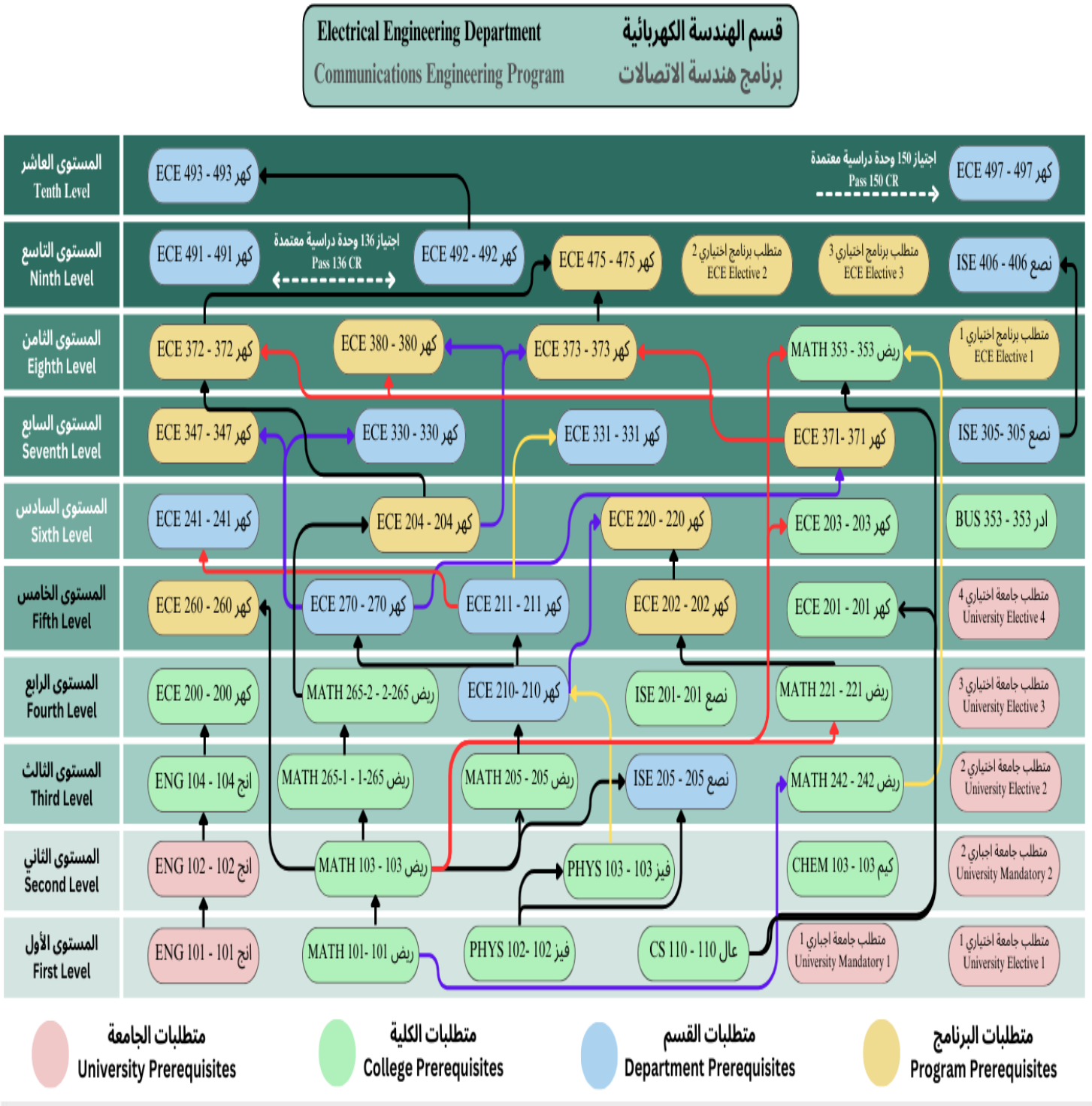
- Maintenance of mobile devices.
- Protection and security of networks.
- Info communication types (wired and wireless communication) such as medical devices.
- Scientific research, development and innovation centers in communications engineering field.

5. Curriculum

5.1. Curriculum Structure

Program Structure	Required/ Elective	No. of courses	Credit Hours	Percentage
Institution Requirements	Required	4	10	6%
	Elective	4	8	5%
College Requirements	Required	18	58	33%
	Elective	-	-	
Department Requirements	Required	10	29	22%
	Elective	--	--	
Program Requirements	Required	10	33	20%
	Elective	3	10	6%
Capstone Course/Project		2	4	3.5%
Field Training/ Internship		1	6	4.5%
Total		52	**158**	**100**

5.2. Program Tree



5.3. Core Courses

Course Title	Code	Credit Hours
Probability and Random Processes	ECE 204	3
Communication Systems	ECE 371	4
Digital Communication Systems	ECE 372	3
Electromagnetics	ECE 220	4
Engineering Mathematics	ECE 202	3
Advanced Communications Lab	ECE 475	2
Communication Networks	ECE 380	4
Wireless Communications	ECE 373	3
Digital Signal Processing	ECE 374	3
Digital Logic Circuit Design	ECE 260	4

5.4. Elective Courses

Course Title	Code	Credit Hours
Antenna Theory and Design	ECE 421	4
Optical Communications	ECE 476	4
Introduction to Information Theory and Coding	ECE 477	3
Satellite Communications Systems	ECE 478	3
Undergraduate Research	ECE 494	3
Special Topics in Communications	ECE 496	3
Wireless Sensor Networks	ECE 481	3

5.5. University Elective Courses

Course Title	Code	Credit Hours	Course Title	Code	Credit Hours
History of Kingdom of Saudi Arabia and its Pioneering Role	GNR 010	2	Computer Skills and Information Technology	GNR 040	2
Good Citizenship Values	GNR 012	2	Basics of Programming	GNR 041	2
Saudi Arts and Heritage	GNR 013	2	Data Analysis and Management	GNR 042	2
Communication Skills	GNR 020	2	Health Awareness	GNR 050	2
Creative Writing	GNR 021	2	Poetry and Prose in Arabic Literature	GNR 051	2
Writing Academic Reports	GNR 022	2	Well-Being and Quality of Life	GNR 052	2
Emotional Intelligence	GNR 023	2	Fitness and Sport Science	GNR 053	2
Basics of Entrepreneurship	GNR 030	2	Sustainable Development	GNR 060	2
Principles of Projects Management	GNR 031	2	Global Citizenship	GNR 061	2
Giftedness and Mental Superiority	GNR 032	2	Lifelong Learning Skills	GNR 062	2
Principles of E-Commerce	GNR 033	2	Sustainable Ecosystems	GNR 063	2
Financial Literacy	GNR 034	2			
Leadership and Change Management	GNR 035	2			

5.6. Department Core Courses

Course Title	Code	Credit Hours
Electric Circuits (1)	ECE 210	3
Electric Circuits (2)	ECE 211	3
Electronics (1)	ECE 241	4
Signals and Systems	ECE 270	3
Control Systems	ECE 330	3
Electric Machines	ECE 331	3
Engineering Economy	ISE 305	3
Solid Mechanics	ISE 20 5	3
Engineering Management	ISE 406	3
Electrical Engineering Seminar	ECE 491	1
Capstone Design Project (1)	ECE 492	2
Capstone Design Project (2)	ECE 493	2
Co-op Training	ECE 497	6

5.7. Courses Description

(Click here) to check any course specification.

6. Learning Resources

6.1. E-Learning System (Blackboard)

Responsibilities:

- Training students to deal with the e-learning system.
- Develop plans related to e-learning in the college and follow up on their implementation.
- Work to raise the level of readiness of the e-learning unit to provide the necessary support to members.
- Providing consultations to the college and faculty members in the optimal activation and correct practices in e-learning.
- Spreading the culture of e-learning among faculty members and students.
- Encourage e-learning practices.
- Coordination with the Deanship regarding the training need in the field of e-learning.
- Continuous communication and attendance of periodic meetings.
- Provide support to faculty members in the college regarding the learning management system and supporting systems.
- Dealing with network-specific problems and making recommendations to improve the college's information technology system.
- Follow-up and reporting in the field of e-learning practices.
- Receiving suggestions from faculty members.
- Work as a link between the college and the Deanship by communicating with the technical support of the Deanship of E-Learning to solve all the malfunctions faced by the faculty member in the college.
- Continuous follow-up of faculty members to download educational content on the Blackboard system.
- Preparing periodic reports and statistics for each semester.

6.2. Central Library - College Library

The Central Library manages a number of positions, where each position has its own tasks. It is also concerned with the management of the services provided in the Central Library building. It provides technical processing of resources centrally and provides traditional, scientific, research, knowledge, cultural and electronic services to meet the needs of the academic community inside and outside the University.

Services provided by the Central Library:

1. Introductory tours.
2. Search in the automated index.
3. Health service, guidance and mentoring.
4. Inquiries response service.
5. Internet service.

6. Electronic services.
7. Book retention service.
8. Books requesting service.
9. Borrowing service.
10. Research carrels service.
11. Classrooms and discussion service.
12. Photocopying and scanning service.
13. Ongoing briefing and selective transmission of information.
14. People with Special Needs Service.
15. Community Service.

7. Students Admission

7.1. General Admission Criteria

1. The student must be of Saudi nationality or of a Saudi mother.
2. Obtaining a high school certificate or its equivalent from inside or outside the Kingdom.
3. No more than five years have passed since the high school certificate, or its equivalent is obtained.
4. The student must have applied for the aptitude and achievement tests provided by the National Center for Assessment (this condition applies to all high school graduates from inside or outside the Kingdom of Saudi Arabia, according to the Saudi or non-Saudi curricula).
5. The student must meet the announced admission requirements, or any other conditions determined by the University Council and announced at the time of submission.
6. To successfully pass any test or personal interview determined by the university.
7. The student must be medically fit.
8. The student's health and psychological condition is appropriate for the health majors, and in the event of discovering otherwise, the university has the right to transfer her admission to other majors within the university.
9. The health and physical condition of the student should be suitable for the major in physical sports sciences, and the body mass index must be within the normal limits (24.9-18.5) (body mass = weight in kilograms / squared in height in meters), and in the event of discovering otherwise, the university has the right to transfer its admission to other specializations within the university.
10. The student must not be enrolled or accepted, or have previously obtained a bachelor's degree, or was dismissed for disciplinary reasons from one of the public universities in the Kingdom or any other university. If this is proven, the university may cancel the student`s admission.
11. The student should not have a previous record at Princess Nourah bint Abdulrahman University or previously obtained a diploma (from the Applied College) or a bachelor`s degree from it.

7.2. Special Admission Criteria

High School	General Aptitude Test	Scholastic Achievement Test
30%	30%	40%

7.3. Transferring Students

(Click here) to check transferring requirements.

8. Courses Registration and Evaluation of Student Performance

8.1. Attendance Monitoring and Rules for Student Exclusion

The consistent attendance of lectures and practical sessions is mandatory for students. If a student is absent from lectures repeatedly, up to 25% of the total lectures for the course, they will be barred from taking the final exam and assigned a grade of "DN," resulting in failure for the course.

8.2. Enrollment Guidance

The student is responsible for registering her courses during the early registration period, with the exception of new students and registering for the first semester after completing the foundation year, for whom the Deanship of Admission and Registration handles course registration.

8.3. Registration of Prerequisites

At the start of each registration period, students must refer to the study plan and ensure they register for the prerequisites of each course to prevent any delay in their studies. Moreover, if they encounter obstacles or have difficulty understanding the prerequisites they should enroll in first, they should seek guidance from their academic advisor.

8.4. Examinations

Regulatory Rules for Examinations:

- The final exam is held once at the end of the course, at the academic level, semester, or academic year.
- The start and end dates of final exams are determined in the academic calendar details set by the University Council and the midterm exams for general and common courses are posted by the Deanship of Admission and Registration.
- The college is committed to holding final exams at specified times during the registration period for each course.
- The student is not allowed to take exams for more than two courses on the same day, unless an exception is granted by the University Council.

- The duration of final exams for all courses at the university is set at two hours, and the college council, upon the recommendation of the department responsible for the course, may adjust the duration of the exam for some courses in coordination with the Deanship of Admission and Registration, provided it does not exceed three hours and is not less than one hour and a half for midterm exams.
- The student is not allowed to enter the exam after half an hour from its start, and she is not allowed to leave the exam before half of its duration has passed.
- If a student cannot take the final exam due to a valid excuse, the college may accept her excuse, allowing her to take a makeup exam according to specified regulations.
- Cheating or attempting to cheat in the exam, or violating exam instructions and rules, are punishable offenses according to the rules of conduct and student discipline at Princess Nourah bint Abdulrahman University.
- The college council responsible for teaching the course may, if necessary, approve the re-correction of answer sheets during a period not exceeding the beginning of the next semester.

8.4.1. Evaluation and GPA Calculation

- The student's performance in courses is assessed through attendance, exams, assignments, research work, presentations, projects, and other activities reflecting their performance in the course.
- The student's grades for the courses they have taken are recorded in their academic transcript, which is a statement indicating the student's academic progress. It includes the courses studied in each semester with their codes, credit hours, grades obtained, grade symbols, values, semester GPA, cumulative GPA, and overall evaluation statement.
- Grades obtained in each course are calculated based on a scale of (5) points as follows:

Grade Weight (Out of 5)	Percentage	Grade
5.0	100-95	A+
4.75	95-90	A
4.5	90-85	B+
4	85-80	B
3.5	80-75	C+
3.0	75-70	C

Grade Weight (Out of 5)	Percentage	Grade
2.5	70-65	D+
2.0	65-60	D
1.0	Below 60	F
Incomplete		IC
In Progress		IP
Withdraw with excuse		W
Deprived		DN

8.4.2. Standardized Exams

- **Jahzia Exam**

The College of Engineering implements Jahzia Exam for senior students which is provided by the Education and Training Evaluation Commission (ETEC) to measure the learning outcomes and know the quality of CEN graduates. It aims to raise the readiness of Saudi university graduates for the labor market, in order to achieve the goals of Vision 2030. For more information (click here).

- **Fundamental of Engineering FE Exam**

The College of Engineering supports and encourages senior students to take Fundamental of Engineering FE Exam, which is an accredited professional exam provided by Saudi Council of Engineers SCE. It is A comprehensive exam of the fundamentals of engineering. It aims at measuring the efficiency and basic engineering knowledge of engineers. This exam can also be taken by those who are about to graduate, fresh graduates and employees who are working at the rank of engineer. For more information (click here).

9. Academic Advising and Professional Guidance

9.1. Advisee Guidelines

Students have an essential role in the process of academic advising process. It is their responsibility to monitor their academic progress and to seek advice and guidance from their academic advisors. The student prepares for the academic advising process by following the following steps:

1. Before meeting the academic advisor:

- Learn about the office hours for the academic advisor.
- Make an appointment with the academic advisor from the beginning of the semester (preferably at least once a month).
- Prepare the questions and concerns that the student must discuss during the meeting.
- Review the study plan thoroughly, which explains to the student all the requirements that the department, college, and university requirements.
- Search for the correct information and data related to what the student needs before meeting the academic advisor.

2. During the meeting with the academic advisor:

- Bring the academic file for each course and the list of student's inquiries.
- Clarify the professional and educational objectives of the student and discuss them transparently with the academic advisor.
- Determine the date of graduation and consult the academic advisor about it.
- Work together with the academic advisor to develop a study program with an executive schedule for what the student plans to study for the next two semesters.
- Raise all questions of concern to her academic advisor.

3. After the meeting:

- Follow the recommendations of the academic advisor.
- Communicate with the academic advisor and send an email with any additional questions or inquiries.
- Review the graduation requirements and ensure that they are properly understood.
- Inform the academic advisor about any academic process (deletion, addition, excuse, and postponement).
- The student shall be responsible for her academic progress. Counseling is an important tool that helps students succeed, and the student remains the primary responsible person for her success.

9.2. Academic Advisor Responsibilities

- Prepare new students for the university requirements.
- Assist students in making appropriate decisions related to their academic and professional future.
- Enhancing the achievement level of the student by directing her according to the approved academic plan for obtaining the academic degree.
- Overcome the difficulties that a student may encounter during her studies and provide counseling in all fields that may affect her educational path.
- Follow up on students during the study, especially the non-performing, study the causes of stumbling and work to improve students' levels.

9.3. Requirements for Graduation

- The student graduates upon successfully completing the graduation requirements as per the academic plan.
- The cumulative GPA of the student at graduation must not be less than (2).
- Each graduate at Princess Nourah University is awarded a graduation certificate in both Arabic and English, accredited by the Dean of Admissions and Registration and stamped with the university's seal.
- Each graduate at Princess Nourah University is awarded an academic transcript in Arabic, accredited and stamped with the university's seal.
- All entitlements of the student, including bonuses, excellence awards, and allowances, cease from the date of her graduation, and they stop earlier for those who have exceeded the program duration before graduation.
- The Deanship of Admissions and Registration is responsible for the academic procedures for the graduation of the student.

9.4. Additional Information

(Click here) for more information about academic advising.

10. Student Affairs Unit

10.1. Services Provided by unit.

- **Skills Record**
  It is an official document approved by the University that monitors the life skills (personal and professional) acquired by the student during her academic study at the University.
- **Student Employment Program**
  It is a social and educational care program provided by the University to enhance and develop the training role in students' lives. It includes the employment of students within the University facilities. It is an hourly employment system. Students who wish to work on the University premises can apply at the beginning of each semester.
- **Student Lockers**
  The Student Affairs Unit is responsible for renting lockers.

10.2. Student Rights Unit

This unit aims at protecting student rights according to university rules and regulations and to inform students of their rights and responsibilities.

Services:

- Provide academic and non-academic counselling to address the difficulties and obstacles that students may face during their educational career.
- Give general advice on all matters involving students.
- Inform students on how to obtain their rights through official entities.
- Raise awareness on students' rights and duties.
- Receive academic and non-academic complaints from the students and resolve them in accordance with rules and regulations of the University.

10.3. Student Clubs

There are several clubs that students can join:

- Engineering Club
- Sport Club
- Tahakom
- IEEE PNU Student Branch
- IEOM PNU-CEN Student Chapter

10.4. Additional Information

(Click here) for more information about Student Affairs Unit.

11. The Psychological and Social Guidance Unit

It is a unit that seeks to achieve psychological and social compatibility for female students in the university environment through:

- Helping the student to benefit from the subsidies and loans service and the exemption from enrollment fees for university housing and nursery.
- Helping the student to overcome the social problems that hinder her path.
- Supporting the student in developing her social and life skills-
- Conducting psychological counseling through individual psychological sessions and group therapy sessions.
- Applying psychological standards to diagnose the nature and severity of psychological disorder.
- Cooperation with King Abdullah University Hospital in some cases that require pharmaceutical intervention.

12. Facilities

12.1. Classrooms

The lecture halls within the College of Engineering are outfitted with state-of-the-art amenities, including personal computers, internet connectivity, video projectors, and a comprehensive array of tools. These resources empower instructors to deliver their lectures with clarity and precision, facilitating effective interaction and engagement among students.

12.2. Laboratory Rooms

- **Communication Systems and Communication Networks Lab**
  The main objective of this laboratory is to conduct various experiments to reinforce the knowledge and skills for studying the courses of communication systems and networks. This laboratory has been equipped with various devices, including Telecommunications Instructional Modelling System, Arbitrary Waveform Generator, Function Generator, Switch, Router, and Wireless Access point.
- **Industrial Electronics, Solar Cell and Nano Technology Lab**
  The main objective of this laboratory is to conduct various experiments to reinforce the knowledge and skills for studying the courses of Industrial Electronics, Solar Cell, and Nano Technology. This laboratory has been equipped with various devices, including Industrial Electronics Training Kits, Solar Energy Training Systems, and Scanning Tunneling Microscope (STM).
- **Antenna Theory and Electromagnetics Lab**
  The main objective of this laboratory is to conduct various experiments to reinforce the knowledge and skills for studying the courses of Antenna Theory and Electromagnetics. This laboratory has been equipped with various devices, including Guided electromagnetic waves training system Microwave signal source, Microwave receiver, Voltage standing wave and power meters, Network analyzer, set of standard gain antennas, and set of Microwave adapter and cables.
- **Electrical Circuits Lab**
  The main objective of this laboratory is to conduct various experiments to reinforce the knowledge and skills related to studying the fundamentals of electrical circuits and electrical measurement methods. The lab is equipped with several different devices for designing electrical circuits, including: a DC power supply, a signal generator, a signal display device, multiple measuring instruments (for measuring voltage, electric current, resistance, and power), and tools for connecting and testing electrical circuits.
- **Electronics Lab**
  The main objective of this laboratory is to conduct various experiments to reinforce the knowledge and skills related to studying Electronics 1 and Electronics 2 courses. This laboratory is designed to prepare students with the necessary practical awareness of electronics fundamentals. Students familiarize themselves with different electronic tools and components that stimulate them to create complex electronic circuits on their own. In this laboratory, students create initial models of basic electronic circuits on a breadboard and verify the results with

theoretical concepts. The experiments are designed to initiate engineering skills growth for students.

- **Digital Logic and Computer Architecture Lab**
  The main objective of this laboratory is to conduct various experiments to reinforce the knowledge and skills related to studying the fundamentals of the Digital Circuits and Computer Systems Engineering courses. This laboratory is equipped with various learning lab tools, including ELVIS III: different devices for designing logical circuits, including virtual ones on the dashboard, a digital electronics board, a set of circuit and electronics insertion tools, a microprocessor training kit, and a microcontroller training kit. Additionally, a digital storage oscilloscope is available.
- **Optical Electronics Lab and Optical Communications**
  The main objective of this laboratory is to conduct various experiments to reinforce the knowledge, and skills related to studying the courses of electronics and communications. This laboratory has been equipped with various devices, including Variable power supply, DC/AC digital multi-meter, Laser Source, Fiber splicing machine, OTDR Optical time domain reflectometer, Optical Power Meter, Fiber, Optic Communication Training Kit, Optical Spectrum Analyzer, Fiber optic hand-held microscope, and Fiber Optic Cleaver.

13. Students Training

13.1. On Job Training (OJT)

OJT is a training type that is provided to undergraduate student in Engineering College (students in first, second, third and fourth years) during the summer semester. It helps students get direct experience in using engineering tools, software, equipment, or techniques that are used in a live environment. Also, it enables the student to discover the workplace in companies, enterprises, industrial, universities and research centers since the first academic years before the mandatory coop training.

13.2. Coop Training

The Co-op Training Program is a mandatory Cooperative training program (Coop) before graduating which helps to build students' skills by integrating professional development with academic theory and practical work experiences.

This is done by engaging students in the professional environment through companies or institutions to undergo on-the-job training. Engineering students are required to work full-time for a period of 20 weeks in ensuring their participation in other practical learning opportunities and graduate with their bachelor's degree in a timely manner. The Coop program is a 12 credit-hours course, and fifth-year students are fully responsible for the registration in this course in the second and third trimesters at levels fourteen and fifteen. During her internship, the student is supervised by a specialized faculty advisor from the college of engineering and by a professional supervisor from the host company. At the end of the training, she must submit a final report and conduct an oral presentation to outline the obtained results and showcase the achievements of her training program. For more information, check Coop Training Guidebook (click here).

13.3. Training Organizations

The College of Engineering at PNU is distinguished by collaboration with strategic partners from technical and industrial companies and institutions (private companies and government entities) to provide training opportunities for engineering students. The list below shows the organizations where the students are trained.

- Aramco.
- SABIC.
- Ministry of Energy.
- Expenditure & Projects Efficiency Authority (EXPRO).
- Saudi Arabian Military Industries (SAMI).
- Saudi Electricity Company.
- Saudi Telecom Company (STC).
- Mobily.
- King Abdulaziz City for Science and Technology (KACST).
- National Industrial Development and Logistics Program (NIDLP).
- Communications, Space & Technology Commission (CST).

14. The Student's Rights and Obligations

14.1. University Student Academic Rights

1. Creating the appropriate university environment for the student to obtain high-quality learning in accordance with University's message
2. Review all approved university rules and regulations and familiarize the student with sources of access.
3. Choose the appropriate major for the student's desires, abilities, and qualifications, according to grades and average conditions and available seats in the university's colleges and departments.
4. Obtaining the scientific material and knowledge related to the university courses you are studying according to its the approved description.
5. View the college's schedules and study plans and the specializations available at the times prescribed in accordance with the system, while preserving the student's right to register in accordance with fair controls if not the possibility of fulfilling her desires.
6. Obtaining a university card that proves one's identity inside and outside the university.
7. Deleting or adding any course, or postponing or withdrawing from the semester according to the calendar University transcript issued by the Deanship of Admission and Registration
8. Commitment of university faculty members to the dates and times of lectures and office hours according to what is announced, and do not cancel lectures or change their times unless necessary and after announcing this in the approved ways and providing the student with alternative lectures in a way that does not conflict with it with her time.

9. Establishing academic specializations according to approved study plans, detailing the levels and units of Teaching and requirements necessary for graduation.
10. Notifying the student before any decision is taken against her and informing her of the warning and debarment issued against her taking the final exams and passing them due to deprivation.
11. It is not permissible for a student to be tested in more than two courses in one day, and the University Council may make an exception to that.
12. The student has the right to scientific discussion and appropriate inquiries with a faculty member, provided that is within the limits of appropriate behavior.
13. The university ensures that exam questions are included in the academic courses and what is asked in them Scientific subject, and the logical and fair distribution.
14. Grades must be taken into account in order to achieve a fair assessment of the abilities of the student and in accordance with scientific principles.
15. Enabling female students to view the results of all semester and final exams, and they have the right in requesting to review the answers to the final exams and request them to be re-corrected according to the by law system.
16. Obtaining a graduation certificate upon completion of graduation requirements in accordance with the university's rules and regulations during the time period specified by the Deanship of Admission and Registration for submitting the document.

14.2. University Student Non-Academic Rights

1. Advocating for good treatment that ensures that her dignity is preserved and recognized, otherwise she is subjected to threats, insults, or mockery.
2. Enjoy subsidies, rewards and financial loans strictly in accordance with their regulations and laws.
3. Joining student clubs, the results of their programs, and participating in their activities.
4. Join student advisory councils, if any, in accordance with the rules regulated by them.
5. Joining scientific societies registered at the university in accordance with the rules regulating them.
6. Benefit from all services, activities, and facilities provided by the university as required by rules and regulations.
7. Obtaining adequate health care within the hospital and the health centers it provides the university.
8. Nomination for training programs, internal and external trips, as well as participation in activities community and volunteer work according to the number allowed for each program or activity.
9. Grievance when facing any problem in accordance with the rules and regulations, and no penalty is issued against the student except after hearing her statements unless it is proven that her failure to attend the investigation was for an unacceptable reason, and that is according to what is stipulated in the university's disciplinary regulations for female students.

10. Notifying the student before any decision is taken against her, and informing her of the warning issued against her, or deprived of taking final exams before sufficient time, and being briefed due to deprivation.
11. Maintaining the confidentiality of the student's personal information, maintaining her personal file and integrity in dealing with it, and not delivering it except to those concerned only, and the contents of this may not be disclosed or published file only as required by the interest.
12. The female student with special needs has the right to obtain decent and appropriate service to its needs in accordance with applicable regulations and rules.

14.3. University Student Academic Obligations

1. The university student's commitment to regular study and fulfilling all requirements of the educational process in accordance with university rules and regulations.
2. Respect all approved university rules and regulations and adhere to their implementation.
3. Commitment to obtain the university card and always carry it with her while traveling around the university and submit it to whoever requests it from members of the educational staff or security personnel at the university, if necessary.
4. Commitment to scientific honesty, avoiding fraud, and avoiding illegal simulation in research and reports.
5. Preserve scientific materials and university books and return any of them on time.

14.4. University Student Non-Academic Obligations

1. Commitment to Islamic values, and not performing any actions that violate religion, morals, or morals public within the university.
2. Commitment to maintaining public order in the Kingdom and staying away from places of doubt and suspicion. and about deviant ideas, malicious calls, corruption, sabotage, and demonstrations inside the university and outside it.
3. Adherence to modest university uniform on campus, as well as adherence to the Islamic hijab when entering and leaving the university.
4. Respecting and implementing the regulations, instructions, and decisions issued by the university, and not circumventing or circumventing them Violating it to obtain rights or benefits contrary to what is required by those regulations or decisions or Instructions.
5. Avoid damaging, tampering with, or rendering the university's property and facilities inoperable participate in it.
6. Commitment to activate the official email approved by the university, and verify its currency correctly, while constantly monitoring the university's website to see what is being offered through advertisements and the like.
7. Commitment to calm and serenity inside the university facilities, and not causing riots or unauthorized gatherings legitimate.
8. Commitment not to disclose any information about the university to newspapers, magazines, and the media.

9. Commitment not to impersonate others.
10. Commitment not to consume food or drinks inside classrooms, laboratories, University Libraries
11. Respecting the university's employees, its contractors, and its guests, and not subjecting them to harm by word or deed in any form.
12. Commitment not to say, do, or raise anything that might affect the reputation and standing of the university scientific and literary, whether inside or outside the university.
13. Female university housing students residing there must be fully disciplined and adhere to its regulations and instructions.

15. Violation

15.1. Disciplinary Violation

Disciplinary violation includes any statement or action by the student that contradicts the provisions of Islamic Sharia law, state regulations, university regulations, instructions, and customs, including the following actions:

1. Engaging in any statement or action that violates religious principles, Sharia constants, honor, dignity, tarnishes reputation, good conduct, morals, and public etiquette, or any action that may harm the university's reputation.
2. Obstructing or inciting the prevention of studying or other university activities mandated by the regulations to adhere to.
3. Disrupting the system, discipline, and good conduct of study at the university and all its facilities, as well as the rules followed during lectures, examinations, seminars, or activities held within or outside the university, including causing chaos in the university housing units or transportation facilities or any other university facilities.
4. Undermining the Islamic and social principles and foundations of the state, insulting national unity verbally or physically, calling for joining organizations hostile to the country, or promoting any political or regional ideas contrary to the state's system.
5. Cheating in exams by any means, attempting or participating in cheating, obtaining exam questions unlawfully before its administration, cheating in reports, research, practical and field training, graduation projects, master's and doctoral theses, as well as cheating by substituting one student for another in exams or allowing others to enter exams instead of them.
6. Impersonating others in any matters related to the university and its affairs, providing documents or university identities to others with the intention of using them unlawfully, or speaking on behalf of the university without official status.
7. Harming the university's reputation internally or externally.
8. Verbally or physically assaulting any of the university's members, including faculty members, staff, students, or employees of companies operating in the university, or any person within the university campus.
9. Unauthorized access to confidential information about the university, its affiliates, or disclosing it, or guiding others on how to obtain it without proper authorization.

10. Engaging in any activities or events within the university, participating in them, or issuing publications, brochures, posters, or participating in their distribution without the approval of the competent authorities within the university.
11. Collecting funds, donations, or signatures without the approval of the competent authorities within the university.
12. Forgery of documents, certificates, or official documents, or requesting them, or using them after forgery, whether issued by the university or from outside it as long as it is related to the student's relationship with the university or its study procedures, or intentionally damaging or partially destroying its contents or using unauthorized methods to obtain them.
13. Misuse, destruction, or sabotage of university facilities and properties, or alteration, or transfer without the approval of the competent authorities, as well as any behavior affecting the cleanliness of the university and its facilities.
14. Carrying firearms - even if licensed - or bladed weapons or retaining flammable or explosive materials or introducing any materials that can be used for illegal purposes inside the university and its facilities or threatening to use any of them.
15. Using, trading, or promoting any prohibited substances, such as drugs and consuming forbidden beverages.
16. Theft inside the university and its facilities.
17. Smoking inside the university and its facilities or promoting cigarettes among students.
18. Refusing to comply with the punishment imposed by the competent authorities for these violations.
19. Using modern techniques to harm the university or any of its members, or filming or recording any of the university's internal events for the purpose of defamation and dissemination through any means of publication without permission.
20. Possession of devices, films, images, tapes, newspapers, or magazines containing content contrary to morals, ethics, principles, and established rules of Islamic Sharia law.
21. Failure to adhere to public decency in clothing, appearance, or demeanor, which is incompatible with Islamic values, societal traditions, customs, and the university's issued instructions in this regard.
22. Hosting any unauthorized person in university housing without the approval of the supervisory authority for housing or lodging in a room other than the resident's room without written permission, or allowing visitors without permission, or using housing for purposes other than those designated, or leaving university housing without official permission from the relevant authority.
23. Leaving the university and returning, placing oneself under suspicion by repeatedly leaving without justification.
24. Refusing to present the university ID card or identification documents to the competent authorities within the university when requested.
25. Stubbornness and insistence on refusing to cooperate with the authorities responsible for enforcing the regulations within the university.

26. Interfering with the investigation process by the student during questioning, exceeding the bounds of ethics and proper conduct in their actions, or addressing members of the disciplinary committee or the investigator and refusing to comply with the committee's summons to attend the investigation or provide testimony.
27. Any other violation deemed by the university to constitute a breach of its regulations, instructions, or decisions and is not addressed in this regulation.

15.2. Penalties for Behavioral Violations

1. Warning.
2. Written warning in case of repeated violation.
3. Assigning the student to perform some voluntary, service, or social work within or outside the university, not exceeding one month.
4. Suspension from enjoying some of the benefits and services provided by the university for one or more academic semesters.
5. Considering the student failed in one or more courses.
6. Temporary suspension from studying at the university for not more than two academic semesters, along with suspension of the stipend, and courses taken at any other university during this period are not counted.
7. Delaying graduation for one academic semester.
8. Permanent expulsion from the university.

15.3. Punishments for Cheating on Tests

1. Removing the violating student from the examination hall.
2. Drafting a detailed report of the incident on the same day, including any documentary evidence available, and submitting it to the dean of the college.
3. The dean of the college or their directly authorized delegate shall conduct an investigation with the violating student. If the violation of cheating is proven, the dean of the college shall decide to impose any of the following penalties: a. Cancelling the student's exam in the course in which she was caught cheating and assigning her a failing grade (F) in that course. b. Cancelling the student's exam in the course in which she cheated, in addition to cancelling her exam in another course or more and assigning her a failing grade (F) in these courses. c. Cancelling the student's exams in all courses of that semester and considering her to have failed (F) in all of them.
4. The dean of the college must consider in her decision, which includes imposing any of the aforementioned penalties, the gradation in imposing penalties, and whether the cheating violation was associated with other violations such as tampering with exam supervision, insistence on not following orders, or violating the exam regulations.
5. Withholding the result of the student caught cheating until a decision is issued by the Disciplinary Committee.

16. Contact Guide

College of Engineering

- Building Number: 150.
- Train Station: A7.
- College Location on Google map (click here).
- Phone: 01182- 42094.
- Email: cen@pnu.edu.sa

College of Engineering - Academic Affair

- Floor: Second floor.
- Phone: 01182- 37522.
- Email: cen-e@pnu.edu.sa

College of Engineering - Practical Training

- Floor: Second floor.
- Phone: 01182- 43234.
- Email: cen-ptu@pnu.edu.sa

College of Engineering – Library

- Floor: First floor.
- Phone: 01182- 38247.
- Email: cen-l@pnu.edu.sa

College of Engineering - Academic Advising

- Floor: Second floor.
- Phone: 01182- 21298.
- Email: cen-sa-aeu@pnu.edu.sa

College of Engineering – Students Services

- Floor: Second floor.
- Phone: 01182- 37425.
- Email: cen-ssa@pnu.edu.sa

Department of Electrical Engineering

- Floor: First floor.
- Phone: 01182-37819.
- Email: cen-ee@pnu.edu.sa

17. Important Links

Princess Nourah Bint Abdulrahman University	*Princess N*
College of Engineering	*College of*
Industrial and System Engineering Department	*Industrial a*
Electrical Engineering Department	*Electrical E*
Biomedical Engineering Department	*Biomedica*
New Students	*New Stude*
Academic Calendar	*Academic*
Academic system for students	*Academic*
E-Learning (Blackboard)	*E-learning*
E-mail	*E-mail*
Smart Suitcase	*Smart Suit*
Online Forms	*Online For*
Student Support and Services Centers	*Student Su*
The Rules governing the Protection of Students' Rights and Duties Unit	*The Rules*
Students' Rights and Duties Regulation	*Students'*
Disciplinary Regulations for Students	*Disciplinar*
Regulations and Tests	*Regulation*
The Students Fund Department	*The Stude*
The Grants and Loans Unit	*Grants*
Skills Register	*Loans*
Protection of Students' Rights Unit	*Skills Regi*
Deanship of Admission and Registration	*Protection*
Deanship of Students Affairs	*Deanship*
	Deanship