EPCE Program

STUDENT HAND BOOK

EPCE,COEEC, ASTU

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1. OVERVIEW OF THE ELECTRICAL ENGINEERING MAJOR

The department of Electrical Power and Control Engineering (EPCE) is one of the three departments in College of Electrical Engineering and Computing of Adama Science and Technology University. The current Electrical Power and Control Engineering department of Adama Science and Technology University emerged as Electrical/Electronic Technology Department of the former Nazareth Technical College (NTC) when the College was established in 1993. Since then, the department had gone through a series of curricular changes and the department continued until the commencement of the Electrical Engineering degree program and finally to Electrical and Computer Engineering Department. Now with the new direction of ASTU, it is renamed as Electrical Power and Control Engineering Department.

Electrical Power and Control Engineering department will teach profound knowledge in basic science of Power Engineering and Control Systems. The department will offer undergraduate degree in the core areas of Electrical Power and Control Engineering. All of the graduates will be with considerable experience in practical application of their skills while gaining comfort and familiarity with research.

The Electrical Power and Control Engineering program curriculum is developed to accommodate the demand of innovative, highly skilled, practice-oriented, entrepreneur, and ethical manpower in the various fields of Electrical Power and Control Engineering.

At the graduate level, research students have the choice of several core areas of specialization and the opportunity to study emerging disciplines such as Power systems Engineering, sustainable energy, electromechanical energy conversion, instrumentation engineering, and power electronics and control engineering, etc.

2. MISSION, PROGRAM OBJECTIVES, AND OUTCOMES

2.1 THE MISSION OF ELECTRICAL POWER AND CONTROL ENGINEERING PROGRAM

The program adopts the vision and mission of the university

Mission

- M1: Produce ethical and internationally competent graduates in engineering and technology through quality education.
- M2: Conduct problem-solving research.
- M3: Provide demand-driven community service.
- M4: Serve as a centre for innovative knowledge and technology transfer for various industries.

2.2 PROGRAM EDUCATIONAL OBJECTIVES

The Program Educational Objective of the Electrical Power and Control Engineering program is to create, apply, and disseminate knowledge immediately or within a few years, after graduation the graduate

- To provide graduates with a solid foundation in mathematical, scientific, and engineering fundamentals and depth and breadth studies in Electrical Power and Control Engineering, to comprehend, analyze, design, provide solutions for practical issues in Electrical Power and Control Engineering
- To provide technical knowledge and skills to identify, comprehend, and solve complex tasks in industry and inspire the students to become future researchers/scientists with innovative ideas.
- To develop team-spirit and enterprising skills with effective communication and technical abilities to serve the society locally and internationally.
- To produce innovative engineers who can hold leadership responsibilities, establish their own enterprises and perform technology transfer for industries.

2.3 THE PROGRAM STUDENT OUTCOMES

To achieve these objectives and goals, each graduate of the Electrical Power and Control Engineering will attain the following outcomes before graduation:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. 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.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. 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.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. EPCE PROGRAM REQUIREMENTS

3.1. EPCE PROGRAM ADMISSION REQUIREMENTS

The minimum admission requirements for the undergraduate regular program are as stated in the Senate legislation August 2017, Article 72. Hence, admission to the undergraduate programs of ASTU shall be based on the completion of the preparatory and obtaining the necessary pass marks in the Ethiopian Higher Education Entrance Examination (EHEE) or equivalent academic achievements from foreign countries as well as the passing entrance examination set by the Ministry and/ or ASTU.

Upon completion of the University Requirement courses students will join College of Electrical Engineering and Computing then upon completion of the College requirement courses students will join Department of Electrical Power and Control Engineering based on the Admission and Placement criteria supervised by standing Committee of the Senate according to the student interest of the program and the criteria set for such purposes as stated in Article 81.

3.2. EPCE PROGRAM GRADUATION REQUIRMENT

Students must take and pass all the required courses to satisfy the requirements for graduation. The total number of credit points required for graduation with the degree of Bachelor of Science in Electrical Power and Control Engineering should be a minimum of **190 credit hours**, including mandatory industrial internship (industry placement). Besides the total credit hour required, for graduating students,

(a) Overall CGPA, and

(b) CGPA for the major requirement courses of Electrical Power and Control Engineering courses must each be at least 2.0 and no 'F' grade in any courses for successful completion.

3.2. Admission Requirements for Continuing Education Program

The admission requirements for the undergraduate continuing education program shall be in accordance with the developed criteria by institute of the continuing and distance education as stated in the senate legislation August 2017, Article 74. The duration for study of the continuing undergraduate education programs shall be six years

3.3. EPCE PROGRAM DEGREE NOMINCLATURE

After successful completion of all the requirements, a student graduating from the Electrical Power and Control Engineering department will be entitled:

Bachelor of Science Degree in Electrical Power and Control Engineering
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4. ELECTRICAL POWER AND CONTROL ENGINEERING CURRICULUM

The undergraduate Electrical Power and Control Engineering requires the completion of courses in the following areas, which are described in the remainder of this section.

No	Course category		Course level	Credit requirement	Percentage of the total
1	General	Mandatory	University required	27	14.21%
2	Basic	Mandatory	College required	44	23.16%
3	Basic	Mandatory	Department required	12	6.31%
4	Major	Mandatory	Department required	68	35.60%
		Elective		30	15.79%
			Subtotal	**181**	**95.26%**
5	Free electives			3	1.58%
6	Industry Internship			6	4.74%
			Total	**190**	**100%**

4.2 University Required Mandatory Courses (27 Cr. Hrs.)

- SOSC5003 Entrepreneurship and Business Development
- EnLa1001 Communicative English
- EnLa 1002 Basic Writing Skills
- LART 1001 Introduction to Civics and Citizenship Studies
- LART 1002 Logic and Critical Thinking
- SOSC 2002 Introduction to Economics
- LART2002 General Psychology and Life Skills
- SpSc 1011 Physical Fitness and Conditioning I
- SpSc 1022 Physical Fitness and Conditioning II
- LART1004 Geography of Ethiopia and the Horn
- LART1003 History of Ethiopia and the Horn

4.2 College Required Basic Courses (44 Cr. Hrs.)

- Phys1101 General Physics
- Chem1101 General Chemistry
- Math1101 Applied Mathematics I
- Math1102 Applied Mathematics II
- ECEg3103 Probability and Random Process
- CSEg1101 Introduction to Computing
- CSEg1104 Fundamental of Programming
- CSEg1102 Introduction to Emerging Technology
- Meng1032 Engineering Drawing
- Math2101 Applied Mathematics III
- EPCE2101 Fundamental of Electrical Engineering
- ECEg2201 Electronic Circuit I
- CSEg2101 Data structure and Algorithm

4.3 Program Required Basic Courses (12 Cr. Hrs.)

- EPCE2202 Electromagnetic Field
- Math3206 Partial Differential Equations
- Math2208 Linear optimization
- Phys2208 Applied modern Physics

4.4 Program Required Major Courses (74 Cr. Hrs.)

- ECEg2204 Signals and Systems Analysis
- EPCE4204 Power System Protection and Control
- Math2103 Computational Methods
- ECEg2202 Electronic Circuits-II
- EPCE3203 Electrical Engineering Workshop
- EPCE3201 Network Analysis and Synthesis
- ECEg3201 Digital Logic Design
- EPCE3205 Electrical Machines I
- EPCE3202 Power Electronics
- EPCE3204 Introduction to Control Systems
- EPCE3206 Power System I
- EPCE3209 Electrical Design of Buildings
- EPCE4201 Power System Analysis
- EPCE3207 Electrical Measurement and Instrumentation
- EPCE4205 Industrial Wiring and Design
- EPCE4203 Modern Control Systems
- EPCE4202 Microcomputers and Interfacing
- EPCE5201 Process Control Fundamentals
- EPCE5203 Engineering Research Methodology
- EPCE5205 Capstone Project
- EPCE5207 Final Year Project Phase-I
- EPCE5202 Final Year Project Phase-II
- IETP4202 Integrated Engineering Team Project
- EPCE3200 Industrial Internship I
- EPCE4200 Industrial Internship II

4.5 Program Required Major Elective Courses (30 Cr. Hrs.)

- EPCE4307 Electrical Materials and Technology
- CSEg2202 Object Oriented Programming
- ECEg4201 Computer Architecture and Organization
- EPCE4301 Energy Conversion Engineering
- EPCE4312 Electrical Machines II
- ECEg3205 Digital Signal Processing
- EPCE4302 Programmable Logic Controllers and Robotics
- EPCE4304 Electrical Power Transmission and Distribution Engineering
- ECEg3202 Introduction to Communication System
- EPCE5304 Introduction to Electric Vehicles and Traction
- EPCE5308 Advanced Instrumentation
- EPCE5307 Energy Management and Auditing
- EPCE5303 Embedded System
- EPCE4306 Introduction to Mechatronics
- EPCE5305 Introduction to Intelligent Controllers
- EPCE5302 Power system Planning & Operation
- EPCE4305 Fundamentals of Electric Drives
- EPCE4310 Digital Control Systems
- EPCE4308 Hydropower Engineering
- EPCE5306 Distributed Generation and Micro grids
- EPCE5301 Computer Methods in Power System

4.6 Program Required Free Elective Course (3 Cr. Hrs.)

A student can take any courses in the undergraduate programs in the university. However, consultation with the expected advisors is highly recommended and pre-requisites shall be respected. The total number of required **credits is Three (3)**.

4.7 Semester Course Load

Under normal circumstance five-year regular programs shall have the semester credit hours requirements between 15 to 19 Cr. Hr.

A student who has justifiable reasons and secures special permission from the CMC and DAC may deviate from the normal load up to the maximum of 20 cr. Hrs as indicated in the senate legislation Article 95.1.

Besides, the maximum semester load for students admitted to fast track, double major/minor shall be 26 credit hours.

5. Double Major and Minor

Students with diverse or multiple areas of interest might consider adding breadth to their academic program by choosing to add a double major/minor. A double major/minor is one of several ways to prepare for the complexity of real-world problems whose solutions are draw on multiple disciplines.

The deadline for declaring a double major is the registration date of student's first semester of fourth (4th) year. However, it is highly advised that a student declares double major at the student's first semester of third (3rd) year.

Eligibility Requirements

- Be registered as an undergraduate student in ASTU
- Have 3.50 CGPA or higher of the primary major
- Completed a minimum of three semesters for engineering in the primary major department
- Complete pre-requisites course set by the respective departments, if any
- Advisor recommendations
- Apply on or before the deadline

5.1. Courses & Credit Requirements for Dual Major (46 Cr. Hrs.)

Course Code	Course Title	Cr. Hr	Lec.	Tut	Lab	Pre-requisite
ECEg2204	Signals and Systems Analysis	3	2	3	0	Math2101
EPCE2202	Electromagnetics Field	3	2	3	0	Math2101
EPCE3201	Network Analysis and Synthesis	3	2	3	0	ECEg2204
EPCE3205	Electrical Machines I	4	2	3	3	EPCE2202
ECEg2202	Electronic Circuits-II	4	2	3	3	ECEg2201
EPCE3206	Power System I	4	2	3	3	EPCE3205
EPCE3204	Introduction to Control Systems	4	2	3	3	EPCE3201
ECEg3201	Digital Logic Design	4	2	3	3	ECEg2202
EPCE3202	Power Electronics	3	2	0	3	ECEg2202
EPCE4203	Modern Control Systems	3	2	0	3	EPCE3204
EPCE4204	Power System Protection and Control	3	2	-	3	EPCE4201
EPCE4201	Power System Analysis	3	2	1	2	EPCE3206
EPCE5201	Process Control Fundamentals	3	2	-	3	EPCE4202
EPCE5205	Capstone Project	2	0	0	6	EPCE4200
	Total credit hours	**46**				

5.2. Courses & Credit Requirements for Dual Minor (27 Cr. Hrs.)

Course Code	Course Title	Cr.Hr	Lec	Tut	Lab	Pre-requisite
EPCE2202	Electromagnetics Field	3	2	3	0	Math2101
EPCE3205	Electrical Machines I	4	2	3	3	EPCE2202
EPCE3206	Power System I	4	2	3	3	EPCE3205
EPCE3204	Introduction to Control Systems	4	2	3	3	EPCE3201
EPCE3202	Power Electronics	3	2	0	3	ECEg2202
EPCE4201	Power System Analysis	3	2	1	2	EPCE3206
EPCE4203	Modern Control Systems	3	2	0	3	EPCE3204
EPCE5201	Process Control Fundamentals	3	2	-	3	EPCE4202
	Total credit hour	**27**				

6. Grading System

Examinations are graded on a letter grading system as stated in the university senate legislation August 2017, Article111. However, the grading system for physical education shall be described as P/F in accordance with their respective curriculum.

Raw Mark Interval (100%)	Corresponding Letter Grade	Corresponding Fixed Number Grade
[90,100]	A+	4
[85,90)	A	4
[80,85)	A-	3.75
[75,80)	B+	3.5
[70,75)	B	3
[65,70)	B-	2.75
[60,65)	C+	2.5
[50,60)	C	2
[45,50)	C-	1.75
[40,45)	D	1
[0,40)	F	0
No Grade	NG	

7. Rules and Regulations

7.1. Rules For Undergraduate Examination

- Students may not enter or leave the exam hall within the first 30 minutes, and any early exit due to illness requires prompt medical certification.

Article 106: Violations of Examination Regulations

- Bringing and using unauthorized materials during an examination is a violation.
- Sharing information in any form during an exam without permission is prohibited.
- Taking an exam for a course in which you are not officially registered is not allowed.
- Having someone else take an exam on your behalf constitutes academic fraud.
- Disruptive behavior or refusing to follow invigilator instructions during an exam is unacceptable.
- Copying from or allowing another student to copy your exam is a serious offense.
- Attempting to avoid signing the attendance sheet or leaving without submitting your paper to claim absence is a violation.
- Possessing unauthorized written materials or devices in any form during an exam is a violation.
- In the event that the DAC finds a clear case of cheating, it shall recommend to the instructor of the course that the student obtain:
  - Zero points for that exam or work and publicizing the case when cheating is in mid exam.
  - “F” grade for the course if cheating is on final exam
  - If an attempt to cheat is confirmed without actual cheating, the student's exam will be graded with a penalty of one letter grade lower than earned.
- For a first cheating offense, the Associate Dean for Academic Affairs shall issue a written warning and publicize the case within the College
- A student caught cheating a second time will be suspended for at least one year, and a third offense will lead to dismissal upon recommendation and approval by academic authorities.

Article 109: Make-up Examinations

- Make-up exams are not for raising GPA but may be allowed for valid reasons like hospitalization, with a maximum of two allowed during the study period.
- The student or their representative must submit valid written documentation explaining the missed final exam to the department head within one week of the new semester.
- If the College Managing Council deems the student's reason for missing the final invalid, the "NG" grade will be changed to "F".
- Students approved for a make-up exam will normally take it with the next regular final, unless the course isn't offered or is a prerequisite, in which case the CMC may authorize an automatic exam.
- A student permitted to sit for a make-up examination must apply and register for it at least one month before the scheduled final examination date for the course.
- A graduating student in the final semester who, for valid reasons, fails to sit for final examinations in one or more courses shall be allowed to take make-up examinations within three weeks of the following regular semester; however, if the student is in the first semester of the final year, they shall be allowed to sit for make-up examinations in a maximum of two courses within the same period.
- A student who receives three or more "NG" grades in a semester and is therefore required to sit for make-up examinations shall, regardless of academic status, withdraw from the University for academic reasons and apply for the make-up exams.
- Any "NG" grade not removed within a year as per the provisions of this article shall be converted to an "F" grade.

Article 110: Supplementary Examinations (Re-exam)

- Re-examinations shall be allowed for students who receive a "D" or "F" grade and cannot repeat the course due to program discontinuity or lack of a substitute course, including any student in any year, readmitted students under the same conditions, and graduate failure students with no possibility of course repetition.
- Re-examination shall be administered to graduating class students within four weeks after graduation.

Article 128: Re-admission

- A student dismissed for academic reasons cannot be readmitted to the same program.
- A dismissed student may apply to a different field in the continuing education program, subject to space and applicable fees.
- A student who discontinues studies for valid reasons after at least one semester may apply for re-admission to the same program any number of times, as long as the program's maximum duration has not expired, unless intake capacity prevents readmission, in which case the time limit does not apply.
- Re-admission of students in good standing depends on available facilities and budget.
- A student dismissed for repeated violations is not eligible for readmission unless stated otherwise.
- A student may apply for re-admission at least one semester after dismissal, provided there is space available and the program duration allows completion of remaining courses.
- The student must have a reasonable chance to raise their GPA to the required level within one semester after re-admission.
- A student can only be re-admitted once; failure to achieve good standing after readmission results in permanent dismissal, with SGPA/CGPA cutoffs applying.

7.2. Student Rights, Duties and Discipline

Article 226: Student Rights

- Learn, understand, enquire and know,
- Participate in a free exchange of ideas in an open academic environment,
- Avail themselves for student services that are provided by the University,
- Evaluate and give opinions about academic instructors on courses and training in a format and modality as provided by the University,
- Have representation in the University's decision-making bodies as outlined by this Legislation or proclamation.
- Utilize the properties of the institution properly
- Give suggestions in the preparation of bylaws, regulations and directives pertaining to administrative matters,

Article 226.2: Student Duties

- Attend classes, exams, and evaluations according to College/University policies.
- Do research that would contributes to the professional growth and benefits of the society.
- Observe the rules and procedures of the University and respect the laws of the country;
- Make proper use and care of University property.
- Report any willful rule violations to the appropriate authorities.
- Demonstrate belongingness to the university.
- Evaluate instructors using the University's prescribed format and method.
- Respect other person’s rights protected by the law.
- Abide by the rules and regulations of the university

Article 231.3: Prohibited Acts

- Dishonest conduct includes cheating, plagiarism, computer misuse, and lying to university members
- Disorderly conduct, assault, the threat of such conduct, or incitement thereto.
- Spreading defamatory material about any university community member, orally or in writing.
- Acts like intimidation, bullying, sexual harassment, and possession of weapons.
- Trafficking pornography and possession or abuse of drugs and alcohol
- Violation of rules on secularism, harassment, and sexual abuse of females.
- Theft, misuse, or neglect of University or community members' property.
- Using force to disrupt normal or legitimate university activities.
- Violation of the Student Code of Conduct and other university-approved regulations.

8. COURSE SCHEDULES AND DEGREE WORKSHEET

ELECTRICAL POWER AND ENGINEERING
FIVE - YEAR PROGRAM

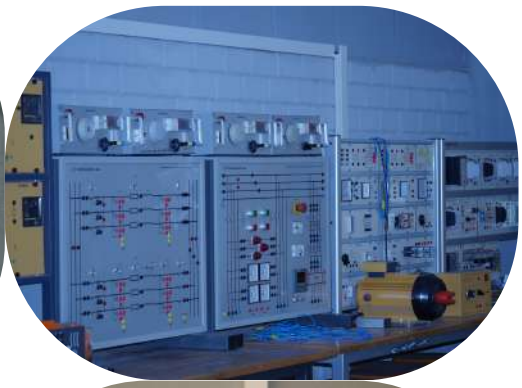
Year	First Semester	Second Semester	Credit
Year I	Math1101 Applied Mathematics I Phys1101 General Physics Chem1101 General Chemistry CSEg1101 Introduction to Computing EnLa 1001 Communicative English LART1011 Introduction to Civic and Ethics SpSc1011 Physical Fitness and Conditioning I (19 Cr. Hrs.)	Math1102Applied Mathematics II CSEg1102Introduction to Emerging Technologies CSEg1104Fundamentals of Programming LART1002Logic and Critical Thinking Meng1032Engineering Drawing EnLa1002Basic Writing Skills SpSc1022Physical Fitness and Conditioning II (19 Cr. Hr.)	38
Year II	Math2101 Applied Mathematics III ECEg2201 Electronics Circuit I EPCE2101 Fundamentals of Electrical Engineering CSEg2101 Data Structures and Algorithms LART1004 Geography of Ethiopia and the Horn (19 Cr. Hrs.)	ECEg3103 Probability & random Process ECEg2204 Signals and Systems Analysis EPCE2202 Electromagnetics Field Math-2103 Computational method ECEg2202 Electronic Circuits-II Math3206 Partial Differential Equations (19 Cr. Hrs.)	37
Year III	EPCE3201 Network Analysis and Synthesis EPCE3203 Electrical Engineering Workshop EPCE3205 Electrical Machines I EPCE3207 Electrical Measurement & Instrumentation EPCE3209 Electrical Design of Buildings LART2002 General Psychology and Life Skill Phys2208 Applied Modern Physics **(18 Cr. Hrs.)**	EPCE3202 Power Electronics EPCE3204 Introduction to Control Systems EPCE3206 Power System I ECEg3201 Digital Logic Design Math2208 Linear optimization **(19 Cr. Hrs.)**	37

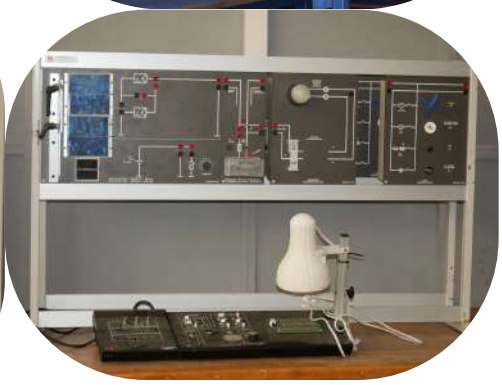
Year	First Semester	Second Semester	Credit
Year IV	EPCE4201 Power System Analysis EPCE4203 Modern Control Systems EPCE4205 Industrial Wiring and Design **Major Elective-I** EPCE4301 Energy Conversion Engineering EPCE4305 Fundamentals of Electric Drives **Major Elective-II** ECEg4201Computer Architecture and Organization CSEg2202 Object Oriented Programming **Major Elective-III** ECEg3202 Introduction to Communication System ECEg3205 Digital Signal Processing EPCE4307 Electrical Materials and Technology **(18 Cr. Hrs.)**	EPCE4202 Microcomputers and Interfacing EPCE4204 Power System Protection and Control IETP4202 Integrated Engineering Team Projects **Major Elective-IV** EPCE4302 Programmable Logic Controllers and Robotics EPCE4304 Electrical Power Transmission and Distribution Engineering **Major Elective-V** EPCE4310 Digital Control Systems EPCE4312 Electrical Machines II **Major Elective-VI** EPCE4306 Introduction to Mechatronics EPCE4308 Hydropower Engineering **(18 Cr. Hrs.)**	35/36
Year V	EPCE5201 Process Control Fundamentals EPCE5207 Final Year Project Phase-I EPCE5203 Engineering Research Methodology EPCE5205 Capstone Project **Major Elective-VII** EPCE5301 Computer Methods in Power System EPCE5303 Embedded Systems **Major Elective- VIII** EPCE5305 Introduction to Intelligent Controllers EPCE5307 Energy Management and Auditing **Free Elective** **(18 Cr. Hrs.)**	SOSC5003 Entrepreneurship and Business Development SOSC2002 Introduction to Economics LART1003 History of Ethiopia and the Horn EPCE5202 Final Year Project Phase II **Major Elective- IX** EPCE5302Power System Planning and Operation EPCE5304Introduction to Electric Vehicles and Traction **Major Elective- X** EPCE5306 Distributed Generation and Microgrids EPCE5308 Advanced Instrumentation **(19 Cr. Hrs.)**	37
	Summer Semester		
Year III	EPCE3200 Internship I (3 Cr. Hr.)		3
Year IV	EPCE4200 Internship II (3Cr.Hr.)		3

9. RESOURCE

Electrical Power and Control Engineering Department have different laboratories composed of different lab materials used for both Undergraduate students.

Power System Laboratory





Electrical Machine Laboratory



Electrical Installation Workshop

List of Laboratories Under EPCE Program

- Electrical Power System Laboratory (EPSL)
- Electrical Machines Laboratory
- Power Electronics and Electrical Drive Laboratory
- Instrumentation and Process Control Laboratory
- PLC and Embedded System Laboratory
- Electrical Installation and Motor Winding Workshop
- Computer Laboratories (4)

9. EPCE Program Fuculty

The faculty of the Department of Electrical and Computer Engineering are:

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ELECTRICAL POWER AND CONTROL ENGINEERING

Please refer the complete Senate Legislation, program curriculum and student code of conduct from https://www.astu.edu.et/Colleges/CoEEC/ or request information by writing to depce.soeec@astu.edu.et