About School of Electrical Engineering and Computing (SoEEC)

School of Electrical Engineering and Computing is one of the oldest schools is ASTU. It was established when the previous School Engineering and Information Technologies was divided into three schools. The current School of Electrical Engineering and Computing is established following, the renaming of the Adama Science and Technology University by the Council of Ministers in May 2011 and shifting of the university from Ministry of Education (MoE) to Ministry of Science and Technology (MoST) to work towards the attainment to become the best Centre of Excellence in Science and Technology in Ethiopia.

The school has three departments and one program

- 1. Department of Computer Science and Engineering (CSE)
- 2. Department of Electronics and Communication Engineering (ECE)
- 3. Department of Electrical Power and Control Engineering (EPCE)
- 4. Software Engineering Program under Department Computer Science and Engineering

Vision of SoEEC

SoEEC aspires to be the first choice in Ethiopia and the premier center of excellence in Electrical Engineering and Computer Science and Engineering in Africa by 2030.

Mission of SoEEC

- Produce ethical and internationally competent graduates in electrical engineering and computing through quality education.
- Conduct problem-solving research.
- Provide demand-driven community service.
- Serve as a center for innovative knowledge and technology transfer for various industries.

Student Profile of SoEEC

_	Total Numbers			
Programs	Male	Female	Total	
UG Regular	1366	434	1800	
UG Extension	124	24	148	
PG Regular	114	48	162	
PG Weekend	121	21	142	
PhD	35	5	40	
		Total	2292	

As of February 2023, the student profile of SoEEC is given below

Staff Profile of SoEEC

Academic Rank	Total			
Academic Rank	Male	Female	Total	
Professors	7	0	7	
Associate Professors	7	0	7	
Assistance Professors	26	2	28	
Lecturers	74	11	85	
CARA	4	0	4	
SARA	12	3	15	
ARA	14	3	17	
		Total	163	

As of February 2023, full time on duty staff profile of SoEEC is given below

As of February 2023, on study leave staff profile of SoEEC is given below

Academic Rank	Total			
neuternie kunk	Male	Female	Total	
PhD	21	3	24	
MSc	5	1	6	
Total		30		

Short Description of Departments

1. Computer Science and Engineering (CSE)

The mission of the Computer Science and Engineering CSE program is to provide students with a broad and flexible education in computer science and engineering, to prepare its graduates for rapidly changing technological fields, and give them a sound basis for professional practice, advanced education, active citizenship, and lifelong learning. The students are prepared to expand this knowledge through research into new technologies, design methods, and analysis techniques that link the knowledge with multidisciplinary fields and advance the state of the art. With a knowledge of contemporary technological issues and their impact globally, economically, and environmentally, computer scientists and engineers are at the forefront of advances that continually transform society. CSE undergraduate program tries to make balance among two spinoffs; Computer Science, and Computer Engineering. This scheme exactly fits and aligned with the latest ACM curriculum directions, which considers best and tested experience internationally. Course distribution in each semester is well planned and structured to harness knowledge from the two spinoffs into computer science and engineering knowledge domain. Elective courses give opportunity for program student to make more stable basement in one of the spinoffs for further study, without compromising computer science and engineering knowledge domain.

There are eight course clusters, supposedly specialty steams in the PG curriculum.

- Algorithm and computation
- Artificial Intelligence
- Data Science
- Software Engineering
- Systems and Networks
- Computer Architecture
- Computer Vision, Graphics and Robotics
- Network and Information Systems Security

Program Education Outcomes (PEO)

- PEO-1: Be employed as computer science or computer engineering professionals demonstrating optimal professional competency or be able to pursue further graduate educational opportunities.
- ✤ PEO-2: Demonstrate peer-recognized expertise together with the ability to articulate that expertise as computer science or computer engineering professionals
- PEO-3: Acquire strong analytic, design, and implementation skills required to formulate and solve computer science or computer engineering problems in the IT industry or research environment to create innovative technological solutions.
- PEO-4: Demonstrate that they can operate, communicate, collaborate, work in a team and adjust themselves for a lifelong learning and multidisciplinary research approach as ethically and socially responsible computer science or computer engineering professionals.

- **PO-1**: Ability to identify, formulate, analyze, and solve complex computing or engineering problems by applying principles of computing, engineering, science, and mathematics.
- **PO-2:** Ability to design, implement, and evaluate a computing or engineering solution to meet a given set of requirements, with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- **PO-3**: Ability to apply computer science theory and software development fundamentals to produce computing-based solutions.
- **PO-4**: Ability to develop and conduct appropriate experimentation analyze and interpret data, and use engineering judgment to draw conclusions.
- **PO-5**: Ability to communicate effectively with the computing and engineering community about complex computing and engineering activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.
- **PO-6:** Ability to recognize ethical and professional responsibilities and make informed judgments in engineering and computing practice based on legal and ethical principles, considering the impact of solutions in global, economic, environmental, and societal contexts.
- **PO-7**: Ability to function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline, creating a collaborative and inclusive environment, establishing goals, planning tasks, and meeting objectives.
- **PO-8:** Ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

SIG Special interest groups

Special interest group, particularly research groups, are groups of people (preferably not less than three) who are devoted doing researches on specific areas in main and latest stream of CSE. An individual who is a professor on the area will lead the group. SIG group members are comprised of mainly program academic staff members, and PG and UG students.

Each research group main duties are (1) making discussion on scientific research outputs including journals, seminar and conference papers, brain storming on current status on

science and technology, (2) disseminating the knowledge the University community by conducting seminars and other means, (3) and actively participate in scientific paper publications in the respective focus areas. In the aspect of establishing and strengthening the program, these groups play vital roles in developing and reviewing course contents, also standardizing and managing labs for both undergraduate and post graduate programs. Research groups grow in to a particular post graduate program, and eventually into a research center in the area.

Currently, the following SIG are active in the program

- Intelligent Systems
- Data Science
- Cloud Computing and distributed system
- Network Science
- Computer vision and Robotics

Student Profile of CSE

As of February 2023, the student profile of CSE is given below

	Total Numbers			
Programs	Male	Female	Total	
UG Regular	371	151	522	
UG Extension	41	11	52	
PG Regular	54	12	66	
PG Weekend	58	10	68	
PhD	26	3	29	
		Total	737	

Staff Profile of CSE

As of February 2023, the CSE department has 69 teaching academic staffs on duties and 19 on study leaves for MSc and PhD programs

As of February 2023, full time on duty staff profile of CSE is given below

Academic Rank	Total		
Academic Nank	Male	Female	Total
Professor	2	0	2
Associate Professor	2	0	2
Assistant Professor	12	1	13
Lecturer	36	6	42
CARA	0	0	0
SARA	3	0	3
ARA	6	1	7
Total			otal 69

As of February 2023, on study leave staff profile of CSE is given below

Study Drogram	Total		
Study Program	Male	Female	Total
PhD candidates	15	2	17
MSc	2	0	2
		Total	19

Post Graduate Programs

The department has six areas of specialization at master level, namely:

- 👃 Data Science
- Network Science
- **4** Computer Vision and Robotics
- Artificial Intelligence
- ♣ Smart Software Systems
- Cloud and Distributes Systems

Besides this the department has one area of specialization in Ph.D. level, namely

✤ Ph.D. in Computer Science and Engineering

Research Thematic Areas

The department has eight research thematic areas

- Operating Systems and Networks
- **4** Computer Networks
- Computer Design and Engineering
- Cloud and Distributed Computing
- 👃 Big Data Analytics
- Artificial Intelligence and ML
- ✤ Software Engineering
- **4** Computer Vision and Robotics

2. Electronics and Communication Engineering (ECE) Department

Electronics and Communication Engineering is one of the programs of School of Electrical Engineering and Computing that aims to integrate separate engineering fields to meet the joint demands made by the Electronics and Communication industries in today's world. This program includes design, implementation and testing of a wide range of Electronics and Communication systems such as electronic devices, communications devices, digital signal processing and networking.

Graduates of this program are ideally placed to pursue their specialization in any of the two streams, either Electronics Engineering or Communication Engineering based on their zeal, interest and skill. Our graduates can work at the forefront of all the major areas of Electronics as well as Communication Engineering.

In Electronics Engineering, students will develop knowledge and skills to use semiconductor devices to create a wide variety of products and services which includes design and development of Microelectronic devices, PCB & IC fabrication and Embedded Systems as well.

In Communication Engineering, they will develop the knowledge and skill to design and use electronic, photonic and electromagnetic devices to exchange information among locations on earth and in space. A communication Engineer is responsible for designing, building and overseeing the installation of communication equipment and facilities, such as complex electronic switching systems, telephone, and fiber optics.

Possible specializations of the program include Antennas and Satellites, Artificial Intelligence, Biomedical Engineering, Bioelectronics, Communications, Computer Architecture, Computer Hardware Design, Computer Networks, Digital Signal Processing, Electromagnetics, Electronics, Embedded Systems, Microelectronics, Nanotechnology, Robotics, Signal Processing.

	To provide graduates with a strong foundation in mathematics, science and engineering
PEO-1	fundamentals to enable them to devise and deliver efficient solutions to challenging
	problems in Electronics &Communications Engineering.
	To produce ethically competent and technically qualified Electronics and Communication
PEO-2	Engineers with the potential to become leaders in Industries and Companies associated
FLO-2	with Electronics and Communication Engineering, and able to pursue research or have
	successful career in Academia.
PEO-3	To produce Electronics and Communication Engineers who are committed to sustainable

Program Education Outcomes (PEO)

	development of Electronics and Communication Systems Companies and Industries for			
	the betterment of society and nation.			
	To prepare graduates that can critically analyze existing literature in an area of			
PEO-4	specialization and ethically develop innovative and research-oriented methodologies to			
	solve the problems identified to support the socio-economic development of the nation.			

Excepted Students Outcome

The following PO is adopted based on the ABET Accord;

P01	An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
PO2	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.
P03	An ability to communicate effectively with a range of audiences.
PO4	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.
P05	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.
P06	An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
P07	An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Student Profile of ECE

As of February 2023, the student profile of ECE is given below

Drograms	Total Numbers			
Programs	Male	Female	Total	
UG Regular	280	80	360	
UG Extension	0	0	0	
PG Regular	13	13	26	
PG Weekend	8	2	10	
PhD	5	0	5	
		Total	401	

Staff Profile of ECE

As of February 2023, the ECE department has 50 teaching academic staffs on duties and 2 on study leaves for MSc PhD programs

Academic Rank	Total		
Academic Kank	Male	Female	Total
Professor	1	0	1
Associate Professor	4	0	4
Assistant Professor	9	0	9
Lecturer	19	2	21
CARA	1	0	1
SARA	5	1	6
ARA	7	1	8
		Total	50

As of February 2023, on study leave staff profile of ECE is given below

Study Drogram		Total		
Study Program	Male	Female	Total	
PhD candidates	0	0	0	
MSc	1	1	2	
		Total	2	

Post Graduate Programs

The department has two areas of specialization at master level, namely:

- 🖊 Communication Engineering
- Electronics Engineering

Besides this the department has one area of specialization in Ph.D. level, namely

✤ Ph.D. in Communication Engineering

Research Thematic Areas

The department has 8 research thematic areas

- **4** Communication Systems Engineering
- ↓ VLSI & Embedded Systems
- 🖊 Radar & Microwave Engineering
- Micro Electronics Engineering
- 🖊 Micro and Nano Electronic Technology
- PCB Design and Manufacturing Technology
- Image and Video Signal Processing Technology
- Wetworking & Telecommunication Technology
- 3. Electrical Power and Control Engineering (EPCE) Department

The department of Electrical Power and Control Engineering (EPCE) is one of the three departments in School 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 department 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. The core strategy of the department is to pursue its vision and mission to enhance its research, linkage with industry, academic and scholarly activities and become a center of excellence for its programs, thereby improving its eminence in national and international rankings.

PEO-1	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
PEO-2	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.
PEO-3	To develop team-spirit and enterprising skills with effective communication and technical abilities to serve the society locally and internationally.
PEO-4	To produce innovative engineers who can hold leadership responsibilities, establish their own enterprises and perform technology transfer for industries.

Program Education Outcomes (PEO)

Excepted Students Outcome

The following PO is adopted based on the ABET Accord;

DO1	An ability to identify, formulate, and solve complex engineering problems by applying		
P01	principles of engineering, science, and mathematics.		
	An ability to apply engineering design to produce solutions that meet specified needs		
PO2	with consideration of public health, safety, and welfare, as well as global, cultural,		
	social, environmental, and economic factors.		
P03	An ability to communicate effectively with a range of audiences.		
	An ability to recognize ethical and professional responsibilities in engineering		
PO4	situations and make informed judgments, which must consider the impact of		
	engineering solutions in global, economic, environmental, and societal contexts.		
	An ability to function effectively on a team whose members together provide		
PO5	leadership, create a collaborative and inclusive environment, establish goals, plan tasks,		
	and meet objectives.		
P06	An ability to develop and conduct appropriate experimentation, analyze and interpret		
	data, and use engineering judgment to draw conclusions		
PO7	An ability to acquire and apply new knowledge as needed, using appropriate learning		
107	strategies.		

Student Profile of EPCE

As of February 2023, the student profile of EPCE is given below

Brograms	Total Numbers		
Programs	Male	Female	Total
UG Regular	138	24	162
UG Extension	33	7	40
PG Regular	43	19	62
PG Weekend	47	7	54
PhD	5	2	7
		Total	325

Staff Profile of EPCE

As of February 2023, the EPCE department has 44 teaching academic staffs on duties and 9 on study leaves for MSc and PhD programs

As of February 2023, full time on duty staff profile of EPCE is given below

Academic Rank	Total		
Academic Kank	Male	Female	Total
Professor	4	0	4
Associate Professor	1	0	1
Assistant Professor	5	1	6
Lecturer	19	3	22
CARA	3	0	3
SARA	4	2	6

ARA	1	1	2
		Total	44

As of February 2023, on study leave staff profile of EPCE is given below

Study Drogrom	Total		
Study Program	Male	Female	Total
PhD candidates	6	1	7
MSc	2	0	2
		Total	9

Post Graduate Programs

The department has three areas of specialization at master level, namely:

- Power Systems Engineering
- Control Engineering
- Power Electronics and Drives

Power Systems Engineering

This specialization is a subfield of energy engineering and electrical engineering that deals with the generation, transmission, distribution and utilization of electric power and the electrical devices connected to such systems including generators, motors and transformers. Although much of the field is concerned with the problems of power, the standard for large-scale power transmission and distribution across the modern world, a significant fraction of the field is concerned with the conversion between AC and DC power and the development of specialized power systems such as those used in aircraft or for electric railway networks.

Control Engineering

This is the engineering discipline that applies control theory to design systems with desired behaviors. The practice uses sensors to measure the output performance of the device being controlled and those measurements can be used to give feedback to the input actuators that can make corrections toward desired performance. When a device is designed to perform without the need of human inputs for correction it is called automatic control (such as cruise control for regulating the speed of a car). Multi-disciplinary in nature, control engineering activities focus on implementation of control systems mainly derived by mathematical modeling of systems of a diverse range.

Power Electronics and Drives

is the application of solid-state electronics to the control and conversion of electric power. It is the bridge between electrical power and control engineering. It also refers to a subject of research in electronic and electrical engineering which deals with the design, control, computation and integration of nonlinear, time-varying energy-processing electronic systems with fast dynamics. In modern systems the conversion is performed with semiconductor switching devices such as diodes, thyristors and transistors. In contrast to electronic systems concerned with transmission and processing of signals and data, in power electronics substantial amounts of electrical energy are processed. An AC/DC converter (rectifier) is the most typical power electronics device found in many consumers electronic devices. The power range is typically from tens of watts to several hundred watts. In industry a common application is the variable speed drive (VSD) that is used to control an induction motor. The power ranges of VSDs start from a few hundred watts and end at tens of megawatts.

Beside this the program has two areas of specialization at Ph.D. level, namely:

- Electrical Engineering
- Control Systems Engineering

Electrical Engineering

The PhD program in Electrical Engineering deals with various electrical power issues such as power system analysis, design and optimization and computer applications in power system. The doctorate degree is intended for students who have excelled during their undergraduate and/or graduate studies, have a strong motivation and enthusiasm toward research and innovation, and are inclined to remain in an academic or research environment working on emerging technologies and challenging engineering projects.

The program of study meets the following specific objectives.

- a) Provide the necessary skills and knowledge to the PhD students in the electrical power system design and development, and development of power apparatus for the efficient and effective generation, transmission and distribution of electric power system.
- b) Stimulate research to be undertaken by both students and faculty and thereby help build up research capabilities and experience within the program.
- c) Prepare engineers for effective participation and leadership in the country's industrialization.

Control Systems Engineering

The overall objective of the PhD program is to train highly qualified Control system engineers who can conduct basic and applied research to solve electrical control system problems. Beside this the program focuses on development-related problems and produce well-equipped professionals with the required knowledge, skills, and attitude to deal with real-world problems of control systems engineering.

The specific objectives of the program are:

- To produce quality and competent Ph.D. graduates capable of solving control engineering problems and hence, nationally, regionally, and internationally competent.
- To train educators who will train the next generation of scientists and engineers in both public and private institutions.
- To train researchers and technologists who will serve in research institutions, technology centers and consulting firms.
- To train control system engineers who are capable of handling the complex industrial development process.

Research Thematic Areas

Electrical Power and Control Engineering research Thematic Areas

- 1. Renewable Energy and energy Storage Technologies
- 2. Industrial Automation and drives
- 3. Electric Vehicles and charging stations
- 4. Robotics and Unmanned aerial Vehicles (UAV)
- 5. Power and energy Systems
- 6. Control Systems
- 7. Smart Grids

4. Software Engineering Program

The Computer Science and Engineering (CSE) major at ASTU is a merger of Computer Science and Computer Engineering which is structured in a way that supports the study of both theoretical and engineering aspects of computers. It finds balance between breadth and depth to provide a solid foundation in the basic science and mathematics on one hand, and comprehensive exposure to societal issues, professionalism, and leadership skills on the other.

The Computing field of study includes Software Engineering, Computer Science, Information Technology, Information Systems and Computer Engineering as per the ACM standard classification of field of studies in Computing. There are global experiences of merging Computer Science and Computer Engineering programs and offers it as a program in Computer Science and Engineering. ASTU followed the merging of both Computer Science and Computer Engineering resulting Computer Science and Engineering (CSE) as a department as well as a program based on other countries approach like South Korea. However, we see it from the perspective of expectation of Industry and our customers from the need assessment result, this program does not sufficiently address the Software Engineering demand to make students a full-fledged Software Engineers. So, the new Software Engineering program is designed in such a way that it has some commonality with Computer Science and Engineering, which mainly focuses on algorithmic design and Computer Hardware aspects but its own sufficient specialty focus area.

The Software Engineering Major program as part of the Computer Science and Engineering Department is designed in a way to equip students with core competencies of computing, software and engineering. Software Engineering program focuses on engineering of software systems that meet the requirements, design and build while keeping the quality of service within budget and time (schedule) requirement.

The Software Engineering major in ASTU is based on mathematical and computing fundamentals, it guides students in to the engineering aspects of a software development through courses in software engineering like software architecture and design, software testing and quality assurance, software evolution and maintenance, software integration and engineering. In addition, the carefully designed elective courses and mandatory courses will give students a choice of application domains including gaming and animation, artificial intelligence, computer security, system engineering, and computer vision.

Program Education Outcomes (PEO)

PEO-1	Graduates will obtain general scientific and engineering knowledge, practical skills and general competences that make them confident to develop high-quality software solution in various application domain to meet the needs of industry and academia;
PEO-2	Graduates will communicate effectively as SE professionals with users, peers and upper management ethically and proactively;
PEO-3	Graduates will demonstrate an understanding of the importance of life-long learning, professional development and pursue postgraduate studies and succeed in academic and research careers;
PEO-4	Graduates will develop progressively managerial, reading, and influential roles in their work area and in the communities while solving community problems.

Excepted Students Outcome

The following PO is adopted based on the ABET Accord;

P01	Ability to identify, formulate, analyze, and solve complex computing or engineering		
PUI	problems by applying principles of computing, engineering, science, and mathematics.		
	An ability to apply engineering design to produce solutions that meet specified needs		
PO2	with consideration of public health, safety, and welfare, as well as global, cultural,		
	social, environmental, and economic factors.		
P03	An ability to communicate effectively with a range of audiences.		
	An ability to recognize ethical and professional responsibilities in engineering		
P04	situations and make informed judgments, which must consider the impact of		
	engineering solutions in global, economic, environmental, and societal contexts.		
	An ability to function effectively on a team whose members together provide		
P05	leadership, create a collaborative and inclusive environment, establish goals, plan tasks,		
	and meet objectives.		
P06	An ability to develop and conduct appropriate experimentation, analyze and interpret		
100	data, and use engineering judgment to draw conclusions		
P07	Cultivate the field of computing and its latest trends, to pursue teaching, research and		
107	development activities using appropriate learning strategies		
	An ability to use the techniques, skills, and modern engineering tools and processes		
PO8	necessary for software engineering practice to maintain legacy software systems and to		
	develop new software systems		
P09	An ability to apply software engineering perspective through software design and		
	construction, requirements analysis, verification, and validation, to develop solutions to		
107	modern problems such as security, data science, and systems engineering that meets		
	the automation needs of the society and industry		

Student Profile of Software Engineering Program

Programs	Total Numbers		
Fiograms	Male	Female	Total
UG Regular	102	31	133
UG Extension	46	6	52
		Total	185

As of February 2023, the student profile of SE is given below

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