



Ethiopian Higher Education Exit Exam Practice

With Electronic Learning & Testing System (e-LTS)

Courses to be included in the Exit Examination

Program: Bachelor of Science in Electrical Engineering

Core courses common to all specializations

- Fundamental of Electrical Engineering (Circuit) – 5 ECTS
- Computer programming (Introduction to Computing) – 5 ECTS
- Applied Electronics I (Electronic circuit I) – 5 ECTS
- Signals and System Analysis – 5 ECTS
- Digital logic design – 5 ECTS
- Network analysis and synthesis – 5 ECTS
- Entrepreneurship – 4 ECTS

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<http://elts.com.et/>



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Courses to be included in the Exit Examination

Program: **Bachelor of Science in Electrical Engineering**

Specialization specific courses

Computer engineering specialization

- Object oriented programming – 5 ECTS
- Computer architecture and organization – 5 ECTS
- Microcomputers and Interfacing – 5 ECTS
- Data Communication and Computer Networks – 5 ECTS
- Embedded Systems – 5 ECTS
- Data structure – 5

Electronic communication engineering specialization

- Introduction to Communication Systems – 5 ECTS
- Communication systems (Digital communication)– 5 ECTS
- Data Communication and Computer Networks – 5 ECTS
- Telecommunication Networks – 5 ECTS
- Antennas and Radio Wave Propagation – 5 ECTS
- Wireless and Mobile Communication – 5 ECTS

Electrical power engineering specialization

- Introduction to Power Systems – 5 ECTS
- Electrical Machines – 5 ECTS
- Power Electronics – 5 ECTS
- Electrical Installation – 5 ECTS
- Energy Conversion and Rural Electrification – 5 ECTS
- Power System Protection and Control – 5 ECTS

Industrial control engineering specialization

- Introduction to Control Engineering – 5 ECTS
- Introduction to Instrumentation – 5 ECTS
- Electrical Machines – 5 ECTS
- Modern Control Systems – 5 ECTS
- Electrical Installation – 5 ECTS
- Power Electronics and Drives – 5 ECTS





Advanced Educational Consulting

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Program: **Bachelor of Science in Electrical Engineering**

Specialization specific courses

Electronics engineering specialization

- Introduction Electrical Machines – 5 ECTS
- Introduction to Power Systems – 5 ECTS
- Power System Analysis – 5 ECTS
- Intelligent Controllers – 5 ECTS
- Introduction to Control Engineering – 5 ECTS
- Modern Control Systems– 5 ECTS

Electrical power and control engineering (ASTU)

- Computer architecture and organization – 5 ECTS
- Principles of Electronic Design – 5 ECTS
- Microelectronic Devices and Circuits – 5 ECTS
- Microcomputers and Interfacing – 5 ECTS
- VLSI Design – 5 ECTS
- Integrated circuit technology – 5 ECTS

Electronics and communication engineering (ASTU)

- Introduction to Communication Systems – 5 ECTS
- Computer architecture and organization - 5
- Antennas and Radio Wave Propagation – 5 ECTS
- Wireless and Mobile Communication – 5 ECTS
- Microprocessor & Interfacing– 5 ECTS
- Microelectronic Devices and Circuits– 5 ECTS

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