



DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING SPECIALIZATIONS REQUIREMENTS & POLICY

SUBJECT: ECE / B. ENG. Program	TITLE: ECE Specialization Policy (ESP)
CODING: ECE / 2008 / ESP	AMENDMENT: 24 - 02 – 2022 (Approval date) ^{#1}
LAST AMENDMENT: 04 - 06 – 2020 (Approval date) ^{#2}	

A. PURPOSE OF THIS DOCUMENT

The students of Electrical and Computer Engineering (ECE) get the degree of B.Eng. in ECE as a major and with any one of the following specializations:

- a) Communications and Signal Processing (CSP)
- b) Computer Systems and Networks (CSN)
- c) Electronic Instrumentation and Control (EIC)
- d) Power Systems and Energy (PSE),

The specialization choices of ECE students are recorded in the B. Eng. degree they receive after completing their degree program.

B. THE DIRECT CONSEQUENCES OF NOT BEING SPECIALIZED

- a) In case, if specialization is not recorded on the transcript of a student, then the degree audit letter cannot be proceeded by the ECE department.
- b) In case a student doesn't specialize, then the student cannot register in the following specialization courses mentioned in Table 1:

Table 1: List of the reserved courses for the specialization

Course Code	Course Title	Reserved for
ECCE4126	Principles of Digital Communications	CSP
ECCE5123	Optical communications	CSP
ECCE4257	Applied Algorithms for ECE	CSN
ECCE5232	Computer Architecture & Organ	CSN
ECCE4316	Power System Analysis II	PSE
ECCE5332	High Voltage Engineering	PSE
ECCE4455	Sensors and Actuators	EIC
ECCE5452	Computer-Aided Instrumentation	EIC
ENGR4006	Industrial Training (2)	CSP or CSN or EIC or PSE
ECCE5009	Project (Part I)	CSP or CSN or EIC or PSE

C. PROCEDURE OF APPLYING

- a) An announcement to the students will be made through the office of the Assistant Dean of Undergraduate Studies (ADUS) of the College of Engineering and ECE advisors during the 13th week of the Fall & Spring semesters.
- b) Any student of the ECE department shall be eligible to apply subject to the condition that the student has completed the following courses of the ECE degree plan at the time of application.
 - 1. MATH3171- Linear Algebra and Multivariate Calculus for Engineers, and
 - 2. ECCE3152 - Electronics I, and
 - 3. ECCE3016 - Circuit Analysis II, and
 - 4. ECCE3206 – Digital Logic Design
- c) Eligible students will be asked to submit their application^{#3} and choices of ECE specialization via an online ece-server link^{#4} activated for a stipulated time.
- d) A student may apply for transfer from his / her current allocated specialization to any other specialization indicating the choices of specializations. The approval of transfer requests shall be based on a case-by-case basis keeping in view that the student's current cGPA is greater than the minimum approved cGPA for that particular specialization.

D. IMPLEMENTATION OF THE SPECIALIZATION RESULT

- a) The result of the ECE specialization will be notified to the students, immediately after the approvals of the ECE Probation Advisory Committee and followed by the departmental board.
- b) The approved list will be circulated to the advisors.
- c) The ECE department will forward the list of the students with their allocated specialization to the deanship of Admissions and Registration of Sultan Qaboos University through ADUS of the College of Engineering for adding the specialization on their transcripts.
- d) Students are allowed to submit grievances within a week of announcing the allocation of specialization. After that, grievances are not accepted.

^{#1} Date of approval of ECE Board.

^{#2} Date of revision requested (ECE Board No. 07-SP 2020)

^{#3} I certify with my electronic submission that the information submitted on this application is correct.

^{#4} The online link will be functional only when logged in from any computer lab of the College of Engineering.