

Intermediate Technical Certificate: Industrial Cybersecurity Engineering Technology

(1 Year)

Program Objectives

1. Identify and respond to security concerns relating to operational cyber physical systems.
2. Coordinate among key stakeholders for matters dealing with the security of cyber physical systems.
3. Promote stakeholder awareness and education relating to cyber physical systems security.
4. Establish optimal policies for managing risk in cyber physical systems.
5. Use security criteria to influence technology selection and deployment.

Students must have completed a previous degree relating to Computer Science or Information Technology Systems and meet ESTEC acceptance requirements.

Students are required to meet with the Program Coordinator before beginning course work. Students entering from other programs may be able to waive or substitute courses.

Code	Title	Credits
Required Courses:		
ESET 0100	Engineering Technology Orientation	1
ESET 0100L	Engineering Technology Orientation Lab	1
ESET 0120	Introduction to Energy Systems	2
ESET 0120L	Introduction to Energy Systems Laboratory	1
ESET 0181	Information Technology Fundamentals	3
ESET 0223	Digital Control Theory	2
ESET 0227	Digital Control Systems Laboratory	1
ESET 0242	Practical Process Measurements and Control	2
ESET 0281	Defending Critical Infrastructure and Cyber-Physical Systems	3
ESET 0282A	Introduction to Network Security I	1
ESET 0282B	Introduction to Network Security II	2
ESET 0283	Information System Security Design	3
ESET 0284	Risk Management for Critical Data Systems	3
ESET 0286	Critical Network Security	3
ESET 0287	Professional Certification	3
ESET 0289	Cyber Physical Systems Security Capstone	3
or ESET 0297	Internship	
Total Credits		34