



HÖGSKOLAN I GÄVLE

Ethics in Technical Development 7.5 cr

Etik i teknisk utveckling 7,5 hp

Set by Faculty of Engineering and Sustainable Development

Version

Set at

Valid from

5/27/19

HT2019

Level	G2F
Education level	First cycle
Course identifier	EEG507
Credits	7.5 cr
Main field of study	Electronics
Subject group	Electrical Engineering
Disciplinary domain	Humanities 20.0 % Technology 80.0 %

Learning outcomes After completion of the course the student shall be able to

1. describe the ethical responsibility of an engineer
2. describe and analyze critical thinking, consequentialist ethical theories, as well as duties and rights in engineering
3. analyze environmental ethics applied to sustainable development
4. identify, assert, discuss and present ethical aspects and sustainability for a chosen case in engineering.

Course content Introduction to ethical thinking in engineering
Awareness in technical work
Accountability
Critical thinking
Consequentialist ethical theories
Terms and theories of ethics
Environmental ethics in technical development
Case studies

Teaching	Lectures and seminars
Prerequisites	60 credits completed courses within Electronics or equivalent
Examination	Written Examination, assignments, and seminars
	Module 0010 Written Examination 3 credits, examines learning outcomes 1-3, Grades A-F
	Module 0020 Assignments 2 credits, examines learning outcomes 1-4, grades A-F
	Module 0030 Seminars 2.5 credits, examines learning outcome 4, grades Pass, Fail
Grade	A, B, C, D, E, Fx, F
Other regulations	Degree Criteria for final grade will be given by the course responsible or examiner latest at the beginning of the course.
Sustainable environment	The majority of the course content deals with sustainable development..
Module	
	0010 Written Examination 3 cr Grade: AF
	0020 Assignments 2 cr Grade: AF
	0030 Seminars 2.5 cr Grade: UG