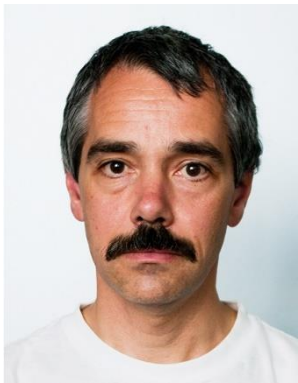


Environmental Engineering (143ENE)



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Department of Landscape Water Conservation

Environment

Place we live in

All living and non living things including culture, social interactions, constructions etc.

Influence in everyday life, work, in all scientific fields

Whatever we do impacts the environment

World – very complex, heterogeneous, complicated, interconnected,
linked

Environmental engineering – integrates science and engineering to improve the natural environment (urban structures, air, water, waste, law, etc.). Studies the effect of technological advances on the environment.

- Interdisciplinarity
 - Specialists in more fields
 - Communication
- > sustainable design, management, hazards
(always with feet on the ground)

Schedule / Scope:

Theory to Environmental Engineering	Course scope, brief technical information
	Introduction to Environmental Engineering (1); ...Social, Political, Economical and Environmental aspects, Sustainable development (2)
	Ecology, basic terminology, biodiversity, invasive species, interactions between living species and non-living env.
Components of En.	Atmosphere 1 (intro, composition, pollution, mitigation, monitoring, ozone layer)
	Atmosphere 2 (greenhouse effect, climate change, Kyoto/Paris, Montreal agreements)
	Soil (inc. pollution, contamination, threads, reclamation, erosion...)
	Water 1 (intro, water budget, resources, water quality, pollution, oxygen sag curve, water and ecology, drinking water, waste water treatment)
Applied EnEn	Water 2 (floods, rainfall-runoff processes and models,...)
	Waste management, Environment and transportation (incl. noise etc.)
	Landscape recultivation and rehabilitation
12	test

Form:

Lectures – every week, Presence is not obligatory
.....discussion is welcome

handouts: <http://storm.fsv.cvut.cz/>

Seminars – biweekly, active presence is obligatory

- group project on EIA (app 4-6 students per group)
- finishes with a brief report and presentation
- report + presentation = assessment + **bonus points for the exam**
- details will be given on the seminar

The end..... written test covering the **presented topics** (100 p., 60 p. needed to pass)

Deadlines:

- EIA report**
- progress will be monitored during the semester (will be specified on the seminar)
 - must be **submitted before the exam!**

EIA presentations

- **last week of semester**

Exam

- **1st term during the last planned lecture**
- more terms in the exam period