

Teknikhistoria

- EITA05 -

Kaan Bür, 2019

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EITA05 – Teknikhistoria

<http://www.eit.lth.se/kurs/eita05>

- Optional for many programs
- G1 (grundnivå)
- 4½ credits



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Course Objectives

- Appreciation of technological development
 - Historical examples
 - Insight and understanding
- Link between technological and societal development



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Intended Learning Outcomes

1. Knowledge and understanding:

- a) **Follow** technological development;
- b) **Be able to explain** how humanity has been making use of technology.



Intended Learning Outcomes

2. *Skills and abilities:*

- a) **Write** own reflections on technological development based on the (historical) examples seen;
- b) **Process** new information and enhance existing own knowledge.



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Intended Learning Outcomes

3. *Critical judgement and evaluation:*

- a) **Be able to reflect** the development of technology onto other historical developments which had an impact on society, and **understand** mutual effects .



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Course Structure

- 14 lecture seminars
 - by teachers and/or experts
 - on Mondays, 18:15 – 20:00
- Reflections (mandatory)
- Project (optional)
 - project seminars (equivalent to 2 lectures)



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Marks

- Mark 3
 - Presence in 12 of the 16 upcoming seminars (75%)
 - Final seminar (student presentations) counts as two lectures!
 - Submission of personal reflections on these
- Mark 4 and 5
 - Individual report to be discussed with Kaan
 - Presentation in our last lecture



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Topics

1. Paradigmskiftet
2. Djävulens kemister
3. Matematisk analys
4. Vattnet
5. Ericssons mobiltelefoner
6. Brobyggande ingenjörer
7. Tekniken i hemmet
8. Kina
9. Christopher Polhem
10. Tidmätning
11. Ingenjörer på film
12. Industri i Sverige
13. Medicinska strålningsfysik
14. Historien om nätet



Reflections

- **Swedish or English** –you decide!
- Via EIT moodle system
 - <http://elearning.eit.lth.se/moodle>
 - Enrollment key **19-LtH-05eita**
- Same rules apply as in a written test
 - Individual work (**no groups**) about 150-200 words
 - Original answers (**no copy/paste**)



Reflections tips

- **GOOD**
 - Links to societal development
 - Parallels to other technological fields or science and technology in general
- **BAD**
 - Summary of lecture contents without any interpretation
 - Comments on the lecturer's performance



Reflections timeline

- Six days 4 hours to submit
 - From Monday 20:00 to Sunday 23:59
- Review (by Kaan)
 - Second chance to revise and resubmit
- Third and last chance right after the finals



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Individual Report/ Term Paper

- Optional
- Deeper individual study
- You can propose your own topics
- Short report and presentation in class
- More information at start of LP2



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Literature

- Lecture slides will be made available on the moodle, (hopefully) prior to each seminar



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Staff

Course head: Kaan Bür
kaan.bur@eit.lth.se

Lecturers: *too many to list here, see*
<http://www.eit.lth.se/index.php?ciuid=1052&coursepage=6393>

Course admin: Erik Göthe
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Most Importantly

ENJOY THE COURSE!