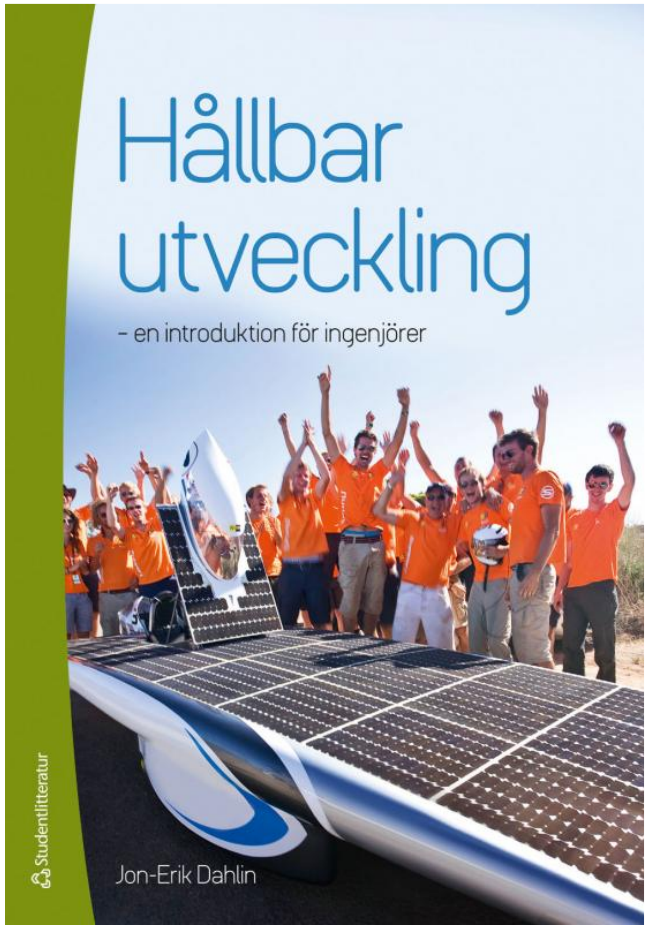
Innovative Introduction to Sustainable Development

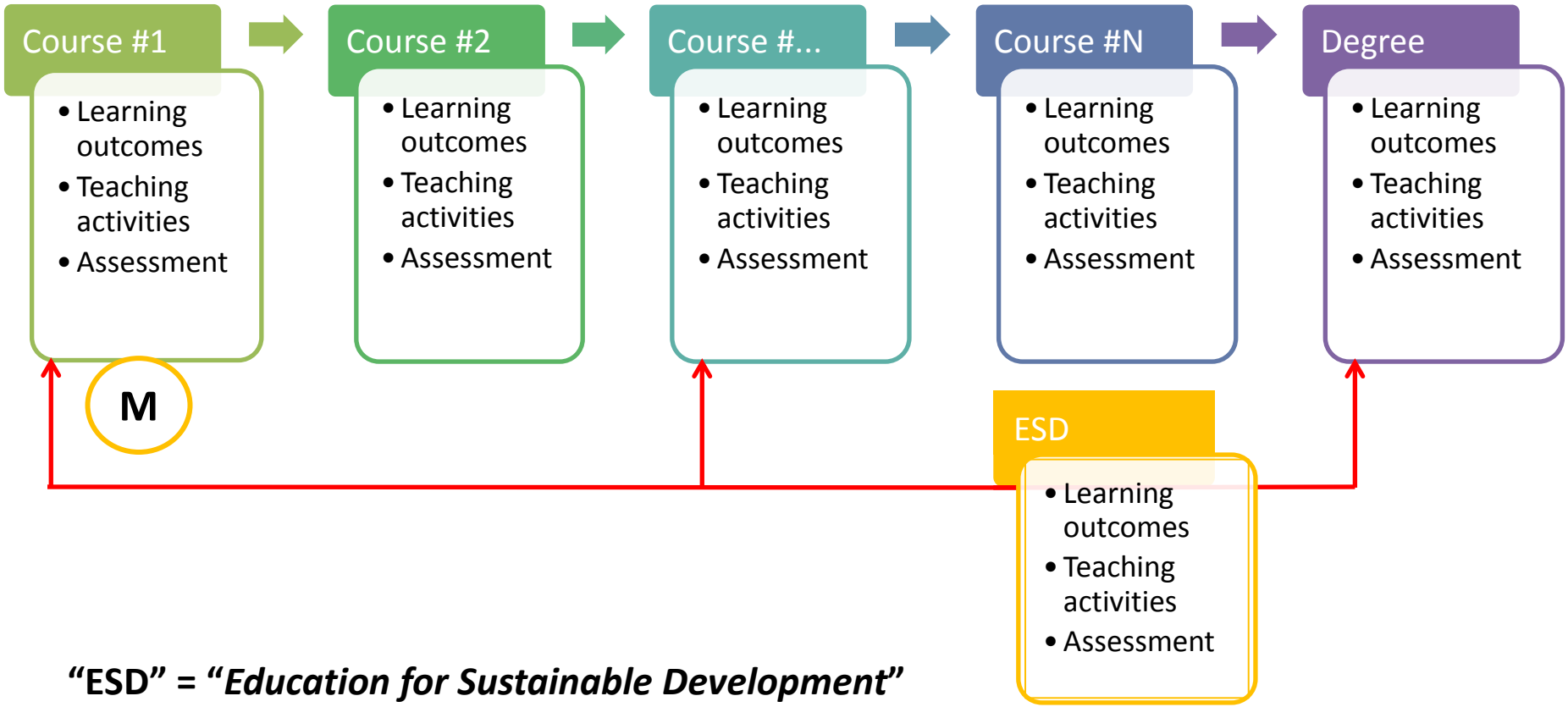
Dr. Jon-Erik Dahlin

http://www.jonerikdahlin.com/



The Basic Idea…

Degree Programme:



"ESD" = "*Education for Sustainable Development*"

Education for Sustainable Development (BRDI):

From a programme perspective:

- **Background, facts *about* sustainability**
- **Reflection, individual critical thinking**
- **Discussion, group interaction**
- **Integration, sustainability *in* the profession**

Several courses may take responsibility for different parts of the overall sustainability curriculum of the programme

ESD could be introduced in the form of new courses, integrated course modules, or as integrated content

Course Module (BRD):

Introduction to Sustainable Development (1,5 hp)

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Now introduced in various programmes, 600-800 students/year

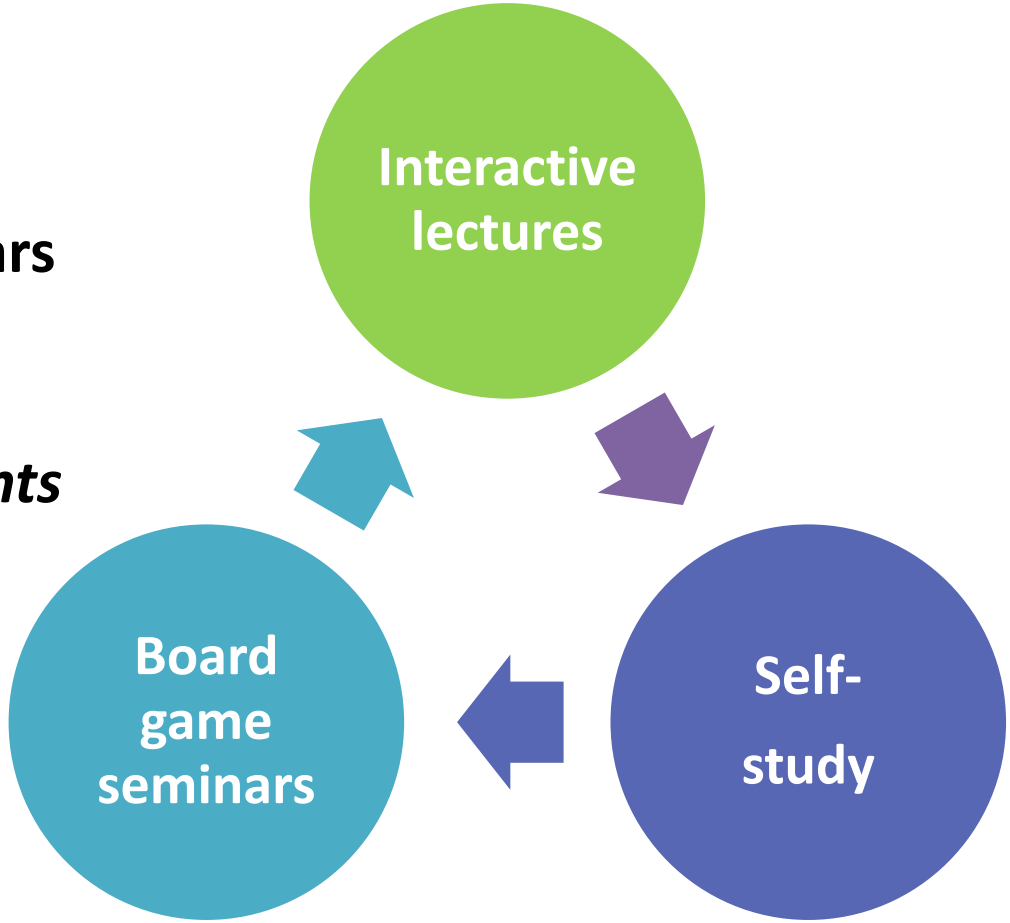
- Lecture I: introduction, dynamic systems & challenges
- Seminar: Fish Banks — Written assignment (ind)
- Seminar: Dilemma I — Written assignment (group)
- Seminar: Dilemma II — Written assignment (group)
- Lecture: relating to engineering, technology & society — Computerised test

How to teach reflection and discussion?

Learning activities:

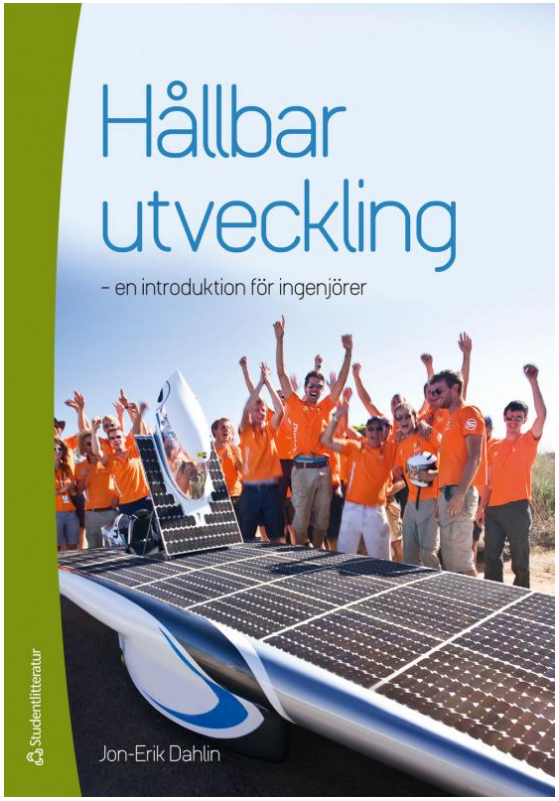
- Interactive lectures
- Board game seminars
- Self-study

We do not teach students how to think, but to think independently



Self-studies/literature:

- **”Hållbar Utveckling – en introduktion för ingenjörer” (Jon-Erik Dahlin)**
  Eng. ”Sustainable Development – an Introduction for Engineers”
- **References to papers and reports**
- **Preparation for seminars**



Board game seminars:

- Dilemma (Jon-Erik Dahlin)
- Fish Banks (Dennis Meadows)

Thank you for your attention!
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