

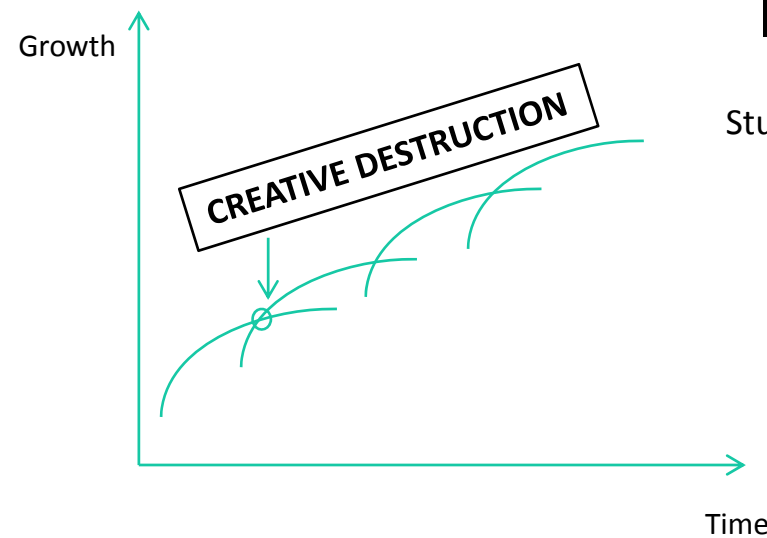
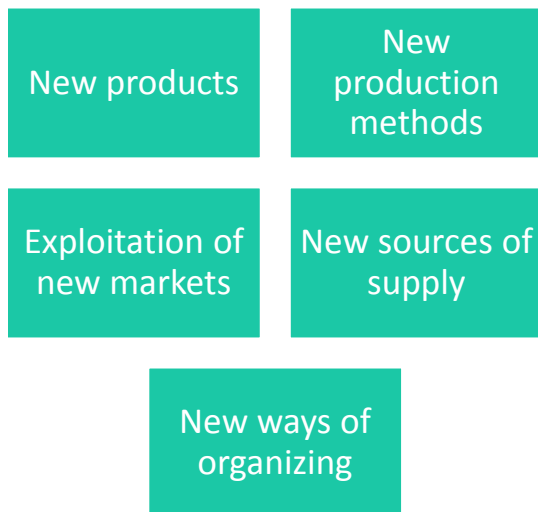
Research and teaching in innovation management

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Schumpeter on innovation

- Innovation creates strategic advantage
- Five types of innovation:



1883-1950
Studies of economic development

Why study innovation management?

- Innovation processes are not always successful, either at the company level or the industry level.
- Management of innovation is essentially about increasing the probability to succeed.

“Chance
favours the
prepared
mind.”



Louis
Pasteur
(1822-1895)

PIE – Projects, Innovations, and Entrepreneurship

- PIE is a division at the department of Management and Engineering, Linköping University
- Part of Institute of Technology
- ~25 employees; 2 Professors, 5 Associate professors, 4 Assistant professors, 2 Lecturers, 9+ PhD students, 1 Administrator
- Budget ~ 25 MSEK

Research @ PIE

- Strong research areas, e.g.:
 - Knowledge integration and innovation
 - Open and collaborative innovation
 - Entrepreneurship and regional development
 - Industry dynamics and energy renewal
 - Innovation and sustainable transitions
 - Innovating firms in emerging economies



Courses in ...

- Entrepreneurship
- Innovation management
- Project management
- Organization theory
- Leadership
- Corporate social responsibility



- About 1700 students/year
- Budget: 9 MSEK

KOD	NAMN
TEIO04	Project Management
TEIO05	Entrepreneurship and business development
TEIO06	Innovative entrepreneurship
TEIO07	Project management and organization
TEIO08	Leadership
TEIO12	Industrial project management
TEIO13	Leadership and organizational change
TEIO16	Innovative entrepreneurship and business development
TEIO19	Organization theory
TEIO20	Entrepreneurship and start of new business
TEIO23	Industrial project management
TEIO24	Project management
TEIO27	Technical entrepreneurship
TEIO28	Integrated project management
TEIO31	Project methodology
TEIO61	Industrial organization, basic course
TEIO87	Project management
TEIO89	Innovation and entrepreneurship, project course
TEIO90	Innovation management
TFKE55	Protein engineering and project management
TMKT98	Introduction to design and product development
ETE303	Entrepreneurial business development
TEMM32	Corporate organization

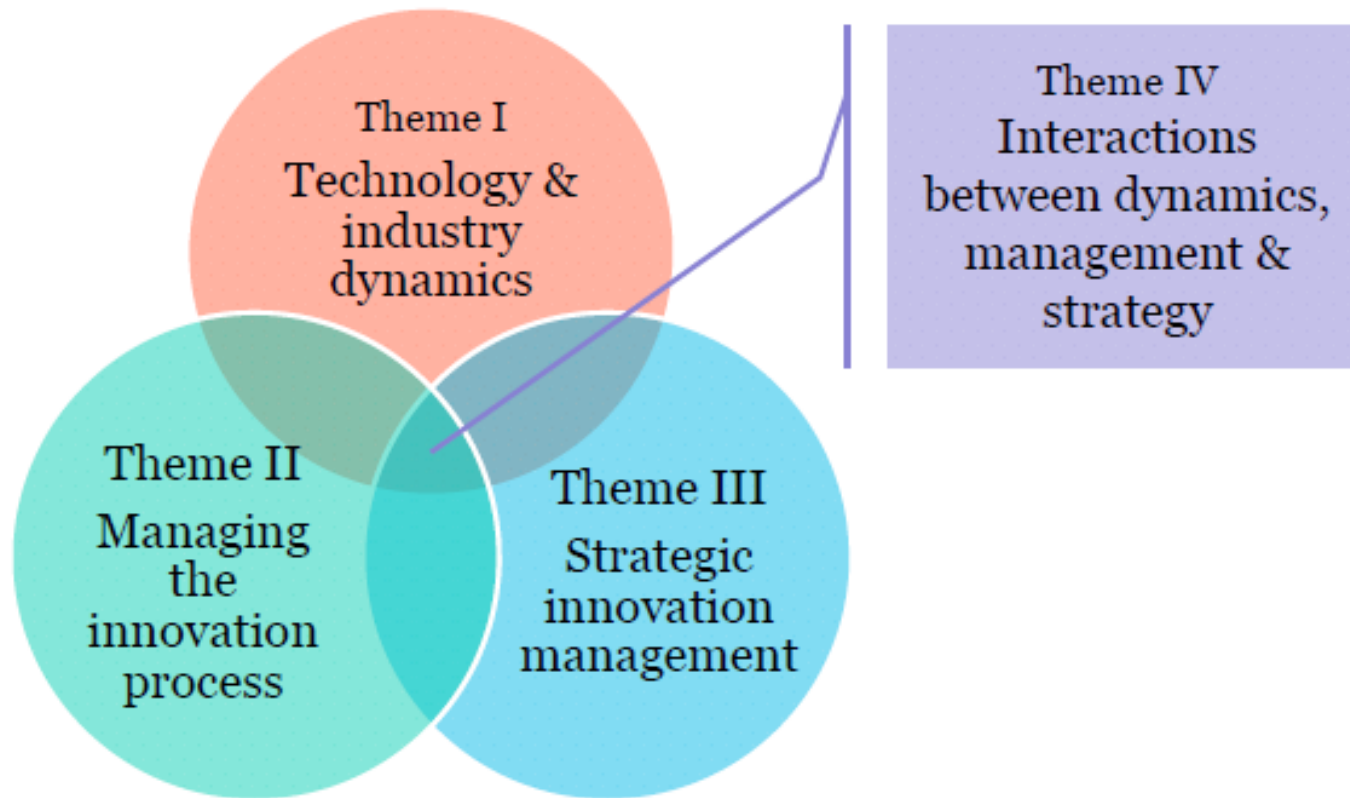
Courses for students of programs such as ...

- Industrial engineering and management
- Design and product development
- Energy and environmental engineering
- Chemical biology
- Electronics design
- Mechanical engineering
- Communication and transport systems
- Information technology
- Applied physics and electrical technology
- Technical biology
- Media technology
-



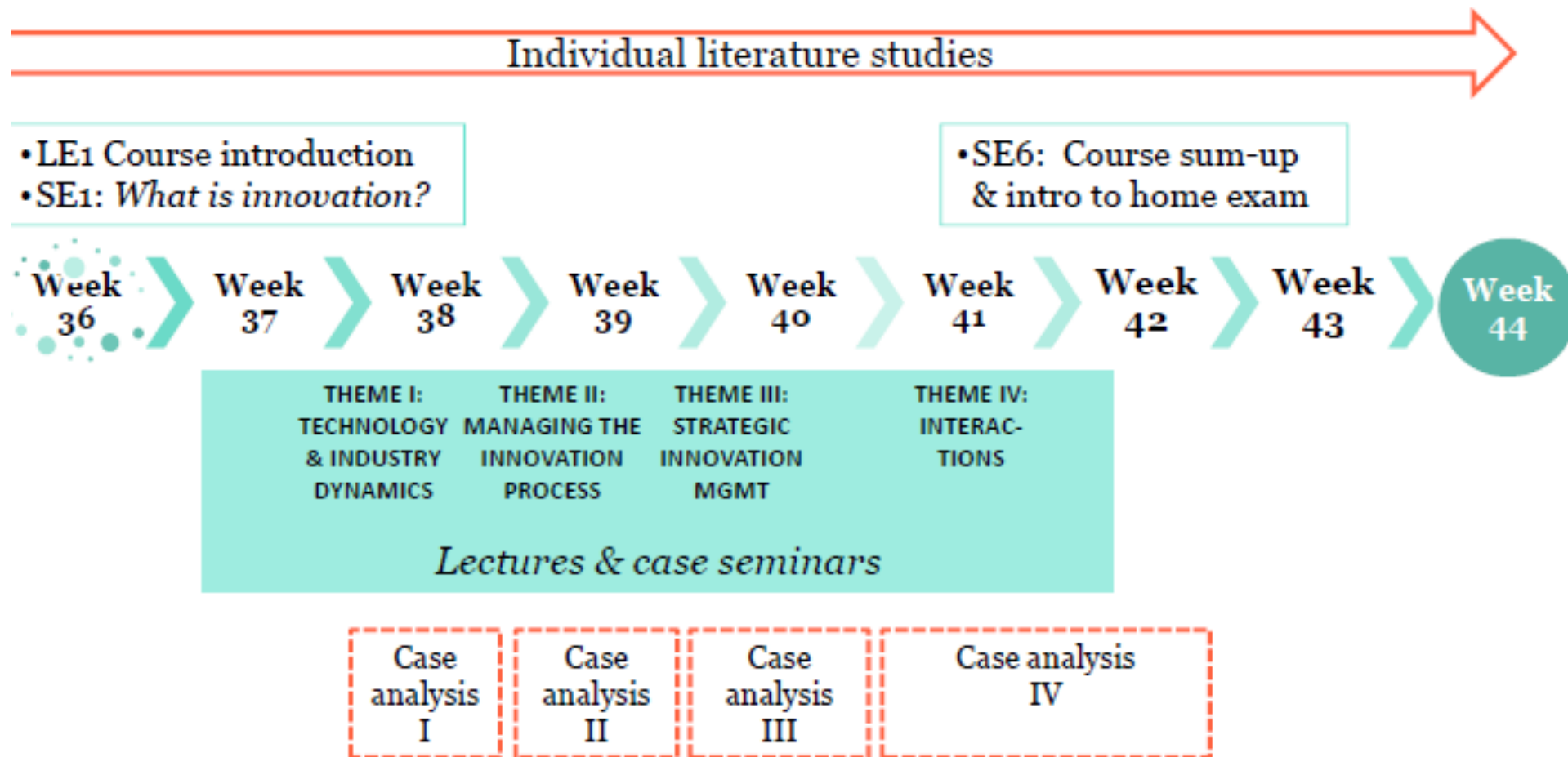
Exampe - Course Innovation Management

- Perspectives in the course



Course Innovation Management

Teaching & learning activities





Mayor launches plan for London hybrid bus fleet

➔ **Theme₂I**

Volvo Group premieres hybrid technology for heavy vehicles

➔ **Theme₂II**

Volvo Buses to focus more on hybrids and electric buses

Electromobility key to sustainable cities

➔ **Theme₂III**

The London field tests

Following the Mayor's announcement in 2006, Transport for London (TfL) invited manufactures to conduct field tests of hybrid buses. The buses were to operate in regular traffic. The British Government supported the tests financially through the Green Bus Fund¹. Among the major European heavy vehicle manufacturers, Volvo was the only one that participated². The other participating manufacturers were specialised hybrid system suppliers. In total, 56 buses were involved in the test.

➔ **Theme₁IV**

"We bought 56 buses and we especially chose a wide manufacture range and a wide range of engine types, battery types. We really wanted to win and match

Studying in Sweden/Linköping

- Open climate with a strong focus on team work
- Informal relations between students and teachers
- Combining theory with practice



