



Innovation studies in osteopathic education – an interdisciplinary implementation

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Innovation studies 10 credits

- During their studies, all students at Metropolia participate in Innovation projects, which are cross-curriculum in nature and aimed at simulating real working life situations.
- Module:
 - 2 credits basic innovation project theory
 - 8 credits innovation project

Innovation

- *in + novus (new)* > the introduction of something new
- "a novelty that creates economic value"
Schumpeter (1934)
- a new idea, method, process, service or device, which is implemented creating surplus value

Research, development and innovation studies continuum within the curriculum

- Research-, development-, and innovation competence in osteopathy
- Basics of research and development methodology
- Research, development and innovation competence in osteopathy
- **Innovation Project**
- Analysing ideas for the final project
- Drawing up a plan for the final project
- Implementing the final project
- Maturity test and publication

Innovation studies - Learning outcomes

- Students recognize their **expert knowledge** and use it in a **multidisciplinary** cooperative development project.
- They create a **collaborative negotiation culture** together with other students, teachers, partners and clients.
- Students know how to use their **cooperation and communication** skills in communal development processes and decision-making.

Learning outcomes continued

- Students are familiar with the basics of **project management** and networking and are able to apply their competence to regional, national or international development work.
- They develop practical, creative and **innovative solutions**, modes of operation or services with other actors to meet the diverse needs of the residents of the metropolitan area.
- Community development is **shared** with all the actors involved.

Innovation project course contents

- The competence areas of development within communities: development processes, coordinating and managing development and renewing development models.
- Management of project and innovation work: planning, implementation, communication, publication, commodification and marketing.
- Interaction skills and interest group activities and working within networks

Assessment criteria - Satisfactory

- **Find** and use working in a team **methods** and especially generate **new solutions** to the design challenges that the projects are about
- Use lean development methods to different fields (e.g., mobile phone application development, game development etc.)

Assessment criteria - Good

- Developed methods for innovating, working in a team and especially generate new solutions to the design challenges that the projects are about in multidisciplinary teams
- **Prevent and solve conflict situations** with appropriate methods
- Use and **integrate** lean development methods to different fields

Assessment criteria - Excellent

- Integrate lean development methods to different fields taking into account the **user centered design** approaches
- **Take lead** in the multidisciplinary and cultural teams
- Use and **adapt** innovation methods in the projects

Project examples – spring 2014

- Movement project for young children and their parents - Finnish Bone and Joint association
- Campus design from customers' and student perspective
- Entrepreneurship amongst health care professionals

Project examples

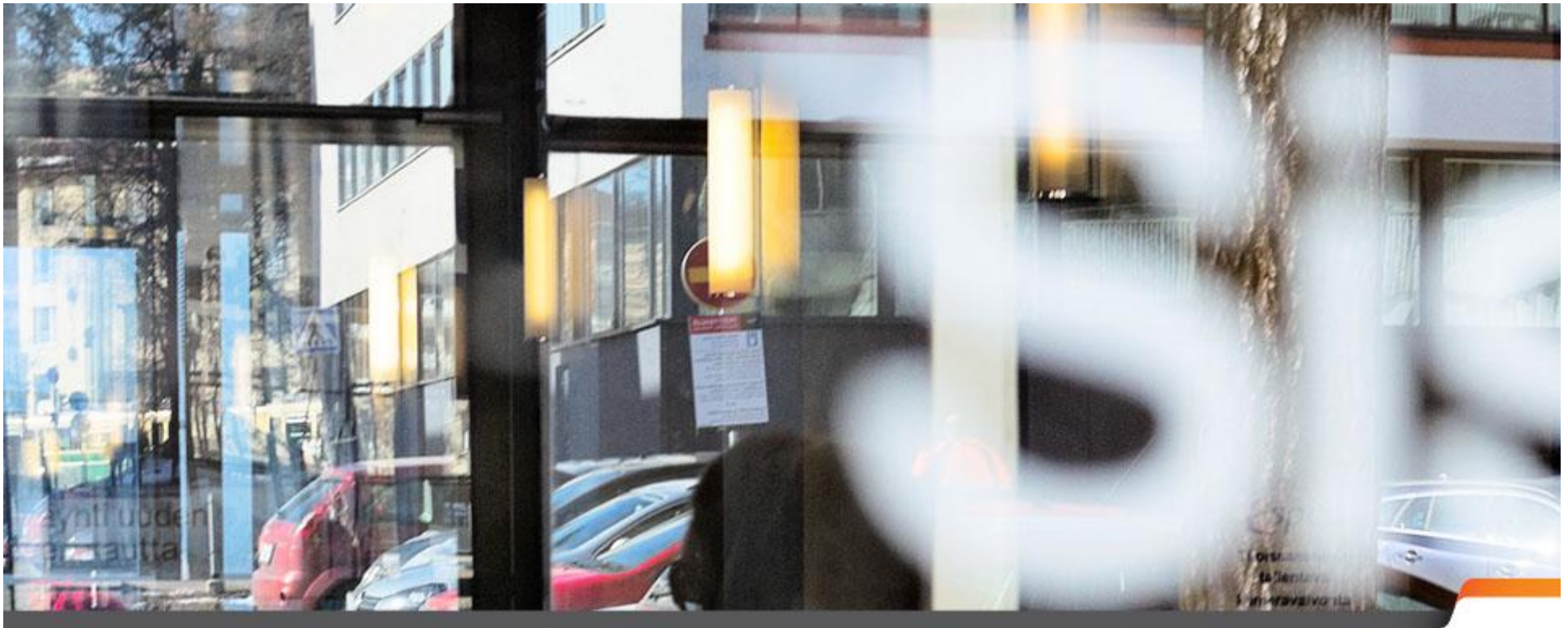
- Innovating the international week
- Mobile health unit
- Automated feeder for a service dog

Project examples

- International Innovation Project
 - MGH Institute of Health Professions, Boston, MA
 - Seton Hall University, South Orange, NJ
 - Metropolitan University College, Copenhagen, DK
 - Metropolia University of Applied Sciences, Helsinki, FI
- Interdisciplinary approach
- Community partner

Experiences and students feedback

- Two implementations with osteopathic students
- Learn to co-operate in multidisciplinary project work
- Students wish for closer co-operation with their own field
- International projects would be welcome



Expertise and insight for the future

The world changes – how does osteopathy change the world?

Development, Innovation and Research

- Andrew Taylor Still – a great innovator



OsEAN mission statement:

- To foster **collaboration and innovation** among its member schools in various areas including administration, education, research and service.

Do we need innovation skills and projects?

- Challenges:
 - Regulation
 - Growth
 - Competition
 - Team-based and patient-centered care
 - Service-design
 - Entrepreneurship
 - Osteopathy awareness



INVITATION TO INNOVATION

Challenges?

A future vision

- ... a community of connected, knowledgeable, skilled, open and creative human beings.
- Digging On ... together



THANK YOU!



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References

- Darso, L (2012) Developing a framework for Innovation and Learning in the Workplace in Practice-Based Innovation. Insights, Application and Policy Implications. Heidelberg: Springer.
- Macauley, K et al (2013) International Innovation Project: Outcomes from an Interprofessional Student Experience (abstract)
- Torcivia, E (2013) Using innovation in community healthcare. In Innostu ja innovoi – an innovation handbook: Helsinki Metropolia University of Applied Sciences.
- Schumpeter (1934) The theory of economic development. Cambridge, MA: Harvard University Press.

References and links

- Minno is the place for you if you - student, teacher, associate or innovator - wish to contribute your idea, help with other ideas, announce that you wish to participate in future or ongoing projects or just browse through the completed projects to learn their lessons.

<https://wiki.metropolia.fi/display/MINNOSYSTEM/Front+page>

- Osteopathic curriculum <http://opinto-opas-ops.metropolia.fi/index.php/en/16183/en/125/SC13S1/year/2013>