

STARTUP ENTREPRENEURSHIP FOR BUILT ENVIRONMENT (EPX5020)

The road to success
is always under construction.

Arnold Palmer

Course Introduction

Course Title and Code:	<u>Startup Entrepreneurship for Built Environment - EPX5020</u>
ECTS credits; Lectures and Practices:	6 ECTS; 4 hours of lectures and practices per week and 10 hours of work outside the class
Course Leadership:	Ergo Pikas (Dr), Innar Liiv (Dr) and Ahti-Veikko Pietarinen (Dr)
Course Duration; Day and Time:	16 weeks; Every Wednesday from 14:00 – 18:00 (tentative)
Study Literature:	Brown, T., 2008. Design thinking. Harvard business review 86, 84. Reis, E., 2011. The lean startup. New York: Crown Business 27. *(Additional literature on Moodle)
Course Language:	Estonian and English

Background and Vision

CURRENT STATE:

- The construction industry shapes our society, nature and economy
- However, the industry is facing many challenges: e.g., poor safety, energy efficiency, and sustainability
- Lack of collaboration and competencies in creating and managing innovation as root cause

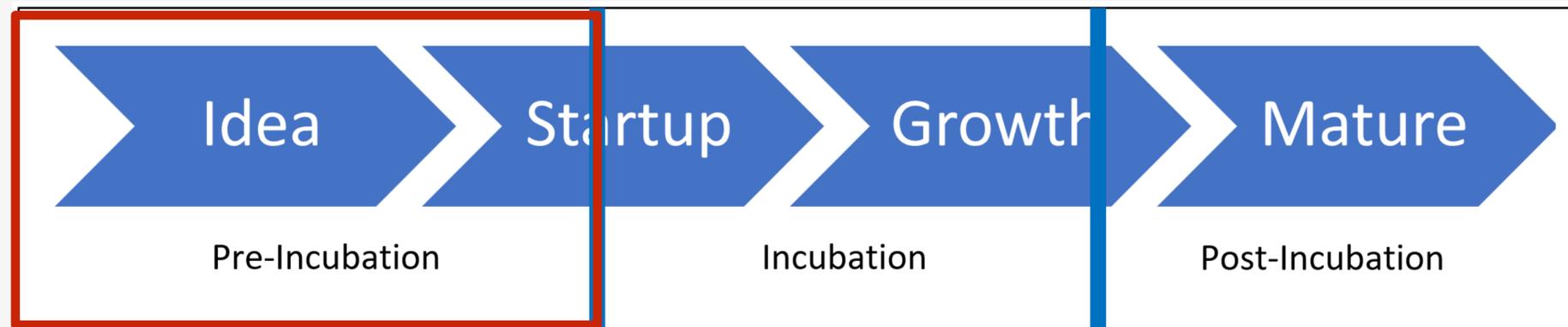
VISION FOR THE ESTONIAN INDUSTRY:

- The Estonian construction industry will lead the construction innovation and technology by 2035
- The Estonian construction industry has a good reputation, is attractive to talented students, and people with modern knowledge and leadership skills work in construction companies

Course Aims

COURSE AS A PLATFORM:

- To teach students design thinking, entrepreneurship, and product/service innovation competencies for solving the built environment problems.
- To provide a platform of cooperation for built environment related organizations and university to ideate and develop solutions to common problems.
- To create preconditions for project teams to successfully apply for incubation programs and apply for funding



Learning Outcomes

- Understanding of the problems of the built environment and skills and abilities to analyze and synthesize problems and solutions
- Understanding of the principles and processes of design thinking and skills and abilities to apply the design thinking methods and tools
- Understanding of the principles and processes of startup entrepreneurship and skills and abilities to apply the startup entrepreneurship methods and tools
- Understanding the principles and processes of product and service innovation development and skills and abilities to apply the product and service development methods and tools

Target Students

The course is aimed at students and organizations in the built environment, economics, and IT at the graduate level. However, participation is not limited to specific fields, academic years, or experiences.

Prerequisites for participation in the course are:

(1) the will and motivation to create something new; and

(2) the desire to acquire knowledge and skills related to the built environment problems, entrepreneurship, and lead, develop, and implement innovation

Criteria for Accepting Students to the Course:

1. Course is limited to 50 students distributed evenly between the students from the civil engineering/architecture, IT and economics departments.
2. PhD students and the 4th and 5th students will be preferred over other students.
3. Students will be accepted to the course based on the time of registration and until the group is full.

Course Leaders



Ergo Pikas 
Assistant Professor



Innar Liiv 
Associated Professor



Ahti-Veikko Pietarinen
Professor

Keynotes and Visiting Lecturers



Lauri Koskela
Professor [in](#)



Rafael Sacks
Professor [in](#)



Olli Seppänen
Professor [in](#)



Antti Peltokorpi
Professor [in](#)



Targo Kalamees
Professor [in](#)



Sven Illing
Vice-Rector [in](#)

VISITING LECTURERS:

Kadri Tammai, Martin Thalfeldt, Simo Ilomets, Jaan Saar, Lauri Tuulberg, Jana Kukk, Virgo Sulakatko, Lauri Liivat, Kert Kaljula, Kristjan Kolbre, Lauri Antalinen, Gunnar Piho, Tõnn Talpsepp

Organizations Involved



REPUBLIC OF ESTONIA
MINISTRY OF ECONOMIC AFFAIRS
AND COMMUNICATIONS

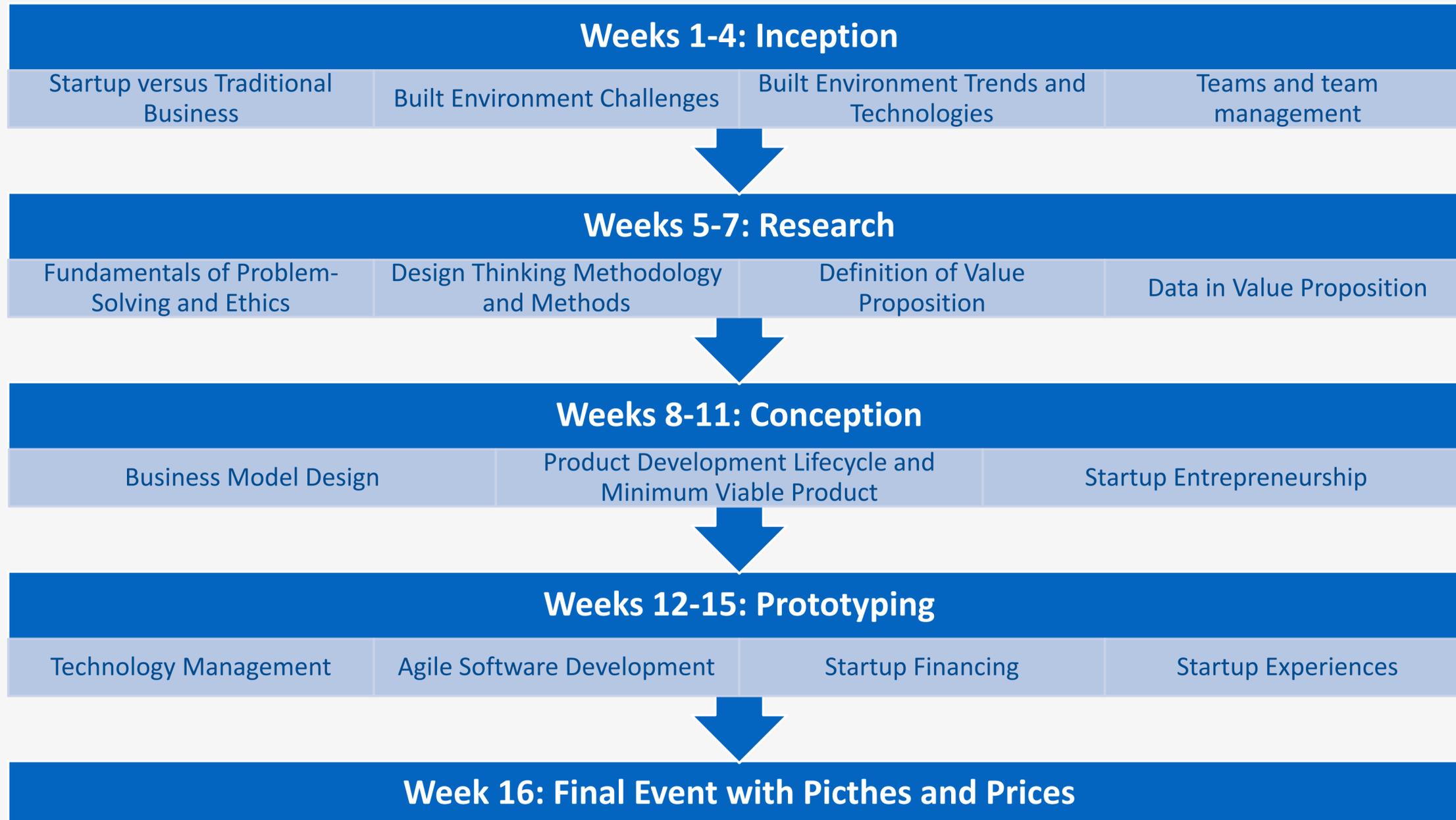


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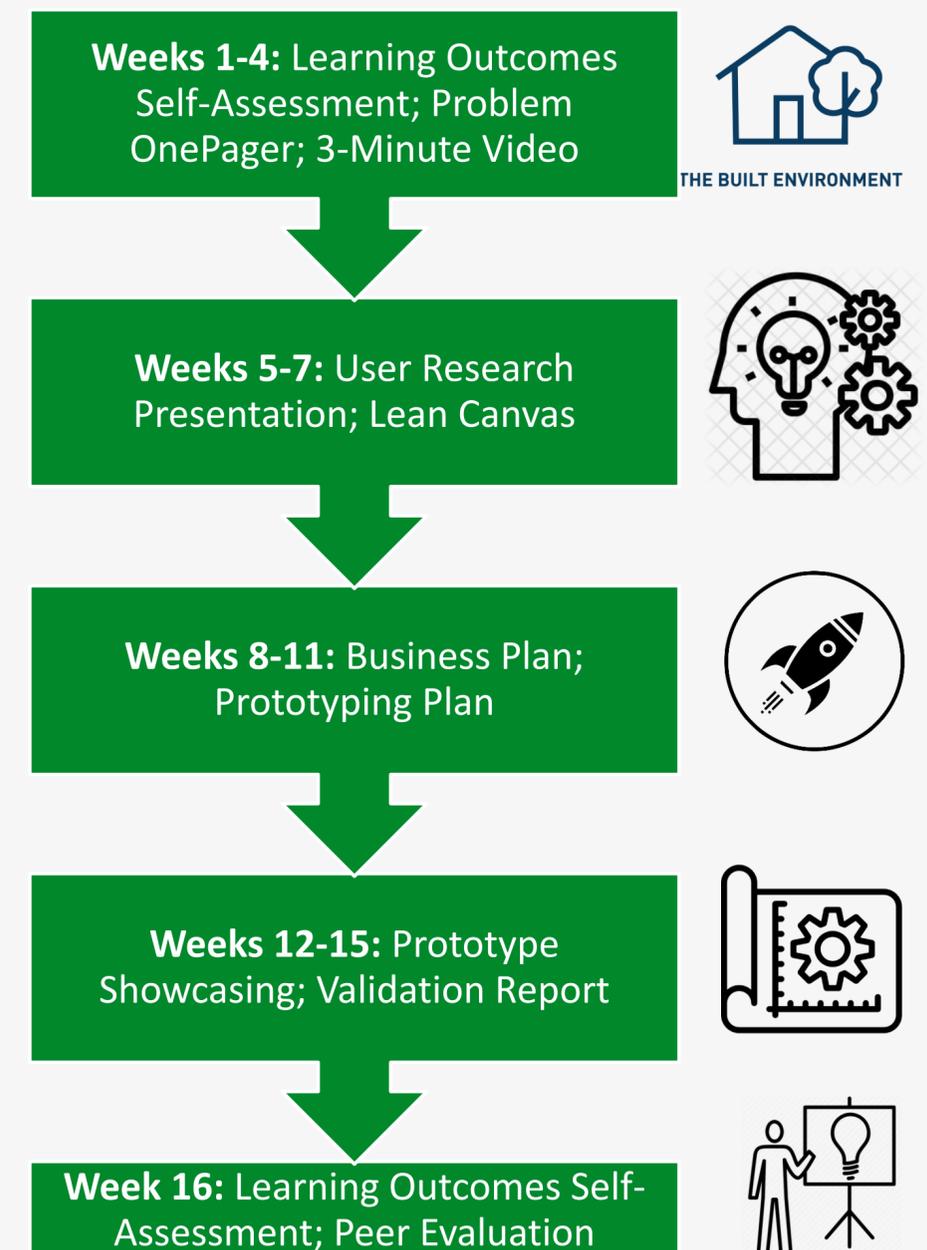


Course Activity Plan

Schedule



Deliverables



Register Your Interest

Lets Change Construction Together!



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