

COURSE DETAIL

INNOVATION SYSTEMS

Country

Netherlands

Host Institution

Utrecht University

Program(s)

Utrecht University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Environmental Studies

UCEAP Course Number

107

UCEAP Course Suffix**UCEAP Official Title**

INNOVATION SYSTEMS

UCEAP Transcript Title

INNOVATION SYSTEMS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

In innovation literature, two main insights led to the development of the innovation systems frameworks. The first is that innovation is a collective act. Multiple actors are involved in innovation processes and it is almost impossible to innovate in complete isolation. One can think of relations between firms in the development of new technologies but also about interactions between firms and users of technology. Furthermore, firms are strongly influenced in their innovation decisions by the institutional conditions that are in place. The second is the insight that the linear model of innovation is a too simplistic model to understand and stimulate innovation processes. Instead many feedback loops are present and many factors other than only R&D influence the outcome of innovation processes. Therefore, innovation outcomes are best understood from a system perspective. In this course students study different innovation system frameworks, like Porter's Diamond model of national competitive advantage, National Systems of Innovation, Regional Innovation Systems, Technological Innovation Systems, Multi-Level Perspective. Students understand the value of a systems perspective for innovation. They identify the differences between the frameworks, their strengths and weaknesses, and understand which systems perspectives are most suited to answer specific research questions. Next to acquiring basic theoretical knowledge about innovation systems students also apply this knowledge in practice by carrying out a technological innovation system analysis.

Language(s) of Instruction

English

Host Institution Course Number

GEO1-2208

Host Institution Course Title

INNOVATION SYSTEMS

Host Institution Campus

Geosciences

Host Institution Faculty

Host Institution Degree

Host Institution Department

Sustainable Development

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