

STPS 519

R&D Policies and evaluation methods

Dr. Sinan Tandođan

1.Course Code, Title and Credit:

STPS 519

R&D policies and evaluation methods

Credit rating (3-0) 3

2.Catalog Description:

Financing R&D and innovation; public policy; justification of public intervention in technology; classifications of public technology policies; recent trends in technology policies, government intervention in technological change in Turkey; monitoring and evaluation of public policies/programs; evaluation concepts, causal relationship; ex-ante/ex-post evaluation, forms of additionality, analysis of evaluation reports

3.Frequency:

Fall and spring semesters

4. Given By:

Dr. Sinan Tandođan

5.Background Requirements:

Economics of innovation and technology, basic econometrics

6. Complementing/overlapping Courses:

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7. Course in relation to the programs:

This course fits within the electives of the PhD Program in Science and Technology Policy Studies.

Government intervention in technological change is one of the crucial issues in science and technology policy studies. Moreover, measurement of related policy implications becomes equally important for researchers and practitioners since policy makers are increasingly forced to make decisions based on evidence-based justification due to the accountability requirements imposed by the national and international community.

This course is designed to contribute to the program by providing the necessary conceptual tools and methodologies to examine the necessity and the effectiveness of the government's role in private R&D and innovation activities.

8. Course Objectives:

During the course, the participants are expected to acquire:

- i) Understanding the concept of public policy;
- ii) Insights about the policy instruments that intervene in private R&D and innovation
- iii) Basic stages of policy evaluation;
- iv) Characteristics of various assessment methodologies

By the completion of "Selected topics in R&D policies and evaluation methods" the participants will:

- i) Have a clear view of the objectives and basic elements of any public policy instrument for technological change;
- ii) Be able to suggest an evaluation methodology for a given public policy
- iii) Become more capable of analyzing an evaluation report

9. Course Outline:

Week 1: Introduction and overview

Week 2: Financing of R&D and Innovation

Week 3: Public support to private R&D: Motivation and challenges

Week 4-5: Public support to private R&D: Policy instruments and recent implementations

Week 6: Current trends in technology policies in Turkey: Regulations and incentives

Week 7: Effectiveness of public policies: Accountability based on causality

Week 8: Evaluation approaches: Evolution and classification of evaluation methodologies

Week 9: Evaluation challenges: Causality, selection bias and counterfactual difficulties, control group creation

Week 10-12: Presentations on term papers

Week 13-14: Analysis of selected evaluation studies