



**UNU-MERIT Maastricht, TÜBİTAK and  
STP are jointly offering a one week intensive  
course on**

**THE DESIGN AND EVALUATION  
OF INNOVATION POLICY (DEIP)  
IN AN EMERGING COUNTRY  
CONTEXT**

**Gebze, Turkey  
6-10 December 2010**

**Draft Programme**

**Course Coordinators:**

**Prof. Dr. Adam Szirmai, Dr. Teoman Pamukçu,  
Mr. Hüseyin Güler and Dr. Semih Akçomak  
see below**

**Course Faculty:**

**Venue:**

**Turkish Institute for Industrial Management  
(TUSSIDE), Marmara Research Center, Gebze**

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# DESIGN AND EVALUATION OF INNOVATION POLICY IN DEVELOPING COUNTRIES

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Speaker	MONDAY 6 DECEMBER 2010	
DEIP COORDINATOR	<b>08.30</b>	Opening Aims and objectives of DEIP
AHMET ADEMOĞLU TÜBİTAK Science Board Member	<b>08:45</b>	Opening Recent Developments in Turkish Innovation System
(1) ADAM SZIRMAI	<b>09.15</b>	<b>TAPPING INTO GLOBAL KNOWLEDGE FLOWS. RATIONALE FOR INNOVATION POLICIES IN DEVELOPING COUNTRIES IN A GLOBALISED WORLD ECONOMY</b> Readings: <ol style="list-style-type: none"><li>1) Szirmai, Adam, 2008, Explaining Success and Failure in Development, UNU-MERIT Working Paper 2008-013</li><li>2) J. Fagerberg and M.M. Godinho, 2004, Innovation and Catching Up, Chapter 19, in J. Fagerberg (ed), Oxford Handbook of Innovation.</li><li>3) M. Abramovitz, Thinking About Growth, in M. Abramovitz, Thinking about Growth and Other Essays on Economic Growth and Welfare, Cambridge University Press, 1989, p. 3-79.</li></ol>
	10.30	COFFEE BREAK
(2) LUC SOETE	<b>10.45</b>	<b>FROM SCIENCE AND TECHNOLOGY POLICY TO INNOVATION POLICY: A CONCEPTUAL AND THEORETICAL FRAMEWORK</b>
	12.15	LUNCH
(3) EROL TAYMAZ	<b>13.15</b>	<b>FDI, INNOVATION AND PRODUCTIVITY: TURKISH EXPERIENCE</b> Readings: <ol style="list-style-type: none"><li>1) Taymaz, E. and Ucdogruk, Y. (2009), "Overcoming the Double Hurdles to Investing in Technology: R&amp;D Activities of <i>Small Firms</i> in <i>Developing Countries</i>", <i>Small Business Economics</i> (33): 109-128.</li><li>2) Lenger, A. and Taymaz, E. (2006), "To Innovate or to Transfer? A Study on Spillovers and Foreign Firms in Turkey", <i>Journal of Evolutionary Economics</i> (16): 137-153.</li><li>3) Wooster, R.B. and Diebel, D.S. (2010), "Productivity Spillovers from Foreign Direct Investment in Developing Countries: A Meta-Regression Analysis", <i>Review of Development Economics</i>, 14(3), 640-655.</li></ol>
	14.45	COFFEE BREAK
(4) LUC SOETE	<b>15.00</b>	<b>INTELLECTUAL PROPERTY RIGHTS AND DEVELOPMENT: OPPORTUNITIES AND THREATS; PATENTS AS AN INNOVATION TOOL</b>

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(5) ANTHONY  
BARTZOKAS

**16.30**

**COHESION POLICIES AND INNOVATION DYNAMICS  
IN THE EUROPEAN UNION**

Readings:

- 1) Farole, Thomas et al., 2009, Cohesion Policy in the European Union: Growth, Geography, Institutions, Working Paper, European Commission, January.
- 2) Begg, Ian, 2010, Cohesion of Confusion: A Policy Searching for Objectives, Journal of European Integration, 32:1, 77-96.
- 3) Bonaccorsi, Andrea, 2009, Towards better use of conditionality in policies for research and innovation under Structural Funds; the intelligent policy challenge, Working Paper European Commission, January
- 4) European Commission, 2010, Communication from the Commission to the European Parliament, The Council , The European Economic and Social Committee, The Committee of the Regions and the European Investment Bank, Conclusions of the fifth report on economic, social and territorial cohesion: the future of the cohesion policy, Brussels.

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**18.00**

**END OF DAY**

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**Speaker****TUESDAY 7 DECEMBER 2010**(6) ELIF  
BASCAVUSOGL  
U-MOREAU**09.00****REGIONAL INNOVATION SYSTEMS: THE TURKISH EXPERIENCE**(7) CLAIRE  
NAUWELAERS**10.30****CHALLENGES FOR THE DESIGN OF INNOVATION POLICIES: LESSONS FROM THE EUROPEAN UNION**

Readings:

- 1) Borrás, S. and B.-A Lundvall (2004), Science, Technology and Innovation Policy, in Fagerberg, J., Mowery, D. and R.R. Nelson (eds), *The Oxford Handbook of Innovation*, Oxford University Press, Oxford.
- 2) Nauwelaers, C. and R. Wintjes, (2008), Innovation policy, innovation in policy: Policy learning within and across systems and clusters, in Nauwelaers, C. and R. Wintjes (ed.), *Innovation Policy in Europe*, Edward Elgar, Cheltenham.
- 3) OECD (2005) Governance of Innovation Systems Volume 1: Synthesis Report, Paris. ISBN: 9789264011021
- 4) Edler, J. Kuhlmann, S. and R. Smits (2003), New Governance for Innovation: The Need for Horizontal and Systemic Policy Co-ordination, ISI-Fraunhofer *Discussion Papers "Innovation System and Policy Analysis"* No 2/2003, Karlsruhe

12.15

**COFFEE BREAK**(8) ADAM  
SZIRMAI**12.15****EDUCATION, HUMAN RESOURCE POLICIES AND DIASPORA**

Readings:

- 1) World Bank (2002), 'Constructing Knowledge Societies – New Challenges for tertiary Education', World Bank, Washington DC
- 2) Szirmai, A. (2005) "Education and Development" in Szirmai, A. *The Dynamica of Socio-Economic Development*, Cambridge University Press, pp. 213-254.
- 3) Marginson, S. and Van der Wende, M (2007) Globalisation and Higher Education, OECD Working Paper.

13.45

**LUNCH**(9) CLAIRE  
NAUWELAERS**14.45****INNOVATION AND PROMOTION OF SMALL AND MEDIUM ENTERPRISES, NETWORKING, CLUSTERING AND THE REGIONAL DIMENSION IN EUROPE**

Readings:

- 1) Nauwelaers, C. (2009), Intermediaries in regional innovation systems: role and challenges for policy, in, Cooke, P. (ed.) (2009), *The Handbook of Regional Innovation and Growth*, Edward Elgar, Cheltenham, forthcoming.
- 2) OECD (2007), *Competitive Regional Clusters: National Policy Approaches*, Paris.
- 3) Rigby, J., Bleda, M., Morrison, K. and Kim, J (2007), Are Gazelles leaping ahead? Innovation and rapidly-growing firms, the GRIPS Mini-Study, Pro-INNO Europe, Brussels. <http://grips.proinno-europe.eu/ministudies/view/1/the-gazelle-mini-study>
- 4) UNECE (2007), Creating a conducive environment for higher competitiveness and effective national innovation systems: *Lessons learned from the experiences of UNECE countries*, New York and Geneva. <http://www.unece.org/ceci/publications/icp.pdf>.

16.15

**COFFEE BREAK**(10) ERKAN  
ERDİL**16.30****CLUSTER RELATED POLICIES AND CASES FROM TURKEY**

Readings:

- 1) Altenburg, T. And Meyer-Stammer, J. (1999) "How to Promote Clusters: Policy Experiences from Latin America", *World Development*,

- 27(9), 1693-1713.
- 2) Bell, M. and Albu, M. (1999) "Knowledge Systems and Technological Dynamism in Industrial Clusters in Developing Countries", *World Development*, 27(9), 1715-34.
  - 3) Caniels, M.J.C. and Romijn, H.A., (2003), "Dynamic Clusters in Developing Countries: Collective Efficiency and Beyond", *Oxford Development Studies*, 31(3), 275-92.
  - 4) \*Karlsson, C. (2007) "Clusters, Functional Regions and Cluster Policies", CESIS Working Paper Series, No. 84.
  - 5) Morrison, A., Pietrobelli, C. And Rabelotti, R. (2008) "Global Value Chains and Technological Capabilities: A Framework to Study Learning and Innovation in Developing Countries, *Oxford Development Studies*, 36(1), 39-58.
  - 6) \*OECD (2007) *Competitive Regional Clusters: National Policy Approaches*, OECD: Paris.
  - 7) \*Potter, J. and Miranda, G. (2009) *Clusters, Innovation and Entrepreneurship*, OECD: Paris.
  - 8) Schmitz, H. and Nadvi, K. (1999) "Clustering and Industrialization: Introduction", *World Development*, 27(9), 1503-14.
  - 9) \*Shahid . Y, Kaoru N., and Shoichi Y. (2008) *Growing Industrial Clusters in Asia*, World Bank: Washington D.C

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18.00 DINNER

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INDUSTRY EXPERIENCES I

(11) Private Sector 19:15

EXPERIENCES OF **Automotive Technology Platform**

EXPERIENCES OF **FORD**

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20.15 END OF DAY

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**Speaker****WEDNESDAY 8 DECEMBER 2010**

	<b>09.00</b>	<b>VISIT TUBITAK RESEARCH CENTRE</b>
	10.45	COFFEE BREAK
(12) ANTHONY BARTZOKAS	<b>10.45</b>	<b>CAPITAL MARKETS AND INNOVATION POLICY FINANCING</b> Readings: 1) Peneder, Michael, 2008, The Problem of Private Under-investment in Innovation: A Policy Mind Map, WIFO Working Paper no. 313, March 2) Khan, Mushtaq K., 2007, Investment and technology Policies, UNDESA, Policy Note 3) United Nations Economic Commission for Europe, 2009, Policy Options and Instruments for Financing Innovation: A Practical Guide to Early-Stage Financing, New York and Geneva. 4) Lerner, Josh, 2010, Innovation, Entrepreneurship and financial market cycles, STI Working Paper 2010/3, OECD, <a href="http://www.oecd.org/sti/working-papers">www.oecd.org/sti/working-papers</a>
	12.15	LUNCH
(13) ELIF BASCAVUSOGLU- MOREAU	<b>13.15</b>	<b>MNCs , INNOVATION IN DCs AND THE INTERNATIONALIZATION OF R&amp;D</b>
	14.45	COFFEE BREAK
(14) SEMIH AKCOMAK	<b>15.00</b>	<b>INCUBATORS, SCIENCE PARKS AND TURKISH EXPERIENCE</b> Reading: Akcomak, S. 2009 Incubators as tool for entrepreneurship promotion in developing economies. UNU-MERIT WP 2009-54.
(15) NORBERT JANZ	<b>16.30</b>	<b>USING CONVENTIONAL INDICATORS OF POLICY OUTCOMES</b> <ul style="list-style-type: none"><li>• Private and Public R&amp;D statistics</li><li>• Patent statistics</li><li>• Scientific Publications, citations</li><li>• Scientists, engineers, technical human resources</li><li>• Technology content of exports etc</li></ul> Readings: 1) Grupp H. 1998. Foundations of the Economics of Innovation. Theory, Measurement and Practice. Edward Elgar (Parts I and II). 2) OECD 2002. Frascati Manual. Proposed Standard Practice for Surveys on Research and Experimental Development. OECD (Chapter 2). 3) OECD 2005. Oslo Manual. Guidelines for Collecting and Interpreting Innovation Data. 3rd edition. OECD/Eurostat (Chapters 2, 3, 6, 8, Annex A). 4) OECD 2007. Science, Technology and Innovation Indicators in a Changing World. Responding to Policy Needs. OECD (Chapters 3, 4, 6, 15). 5) OECD, EC, 2008, Handbook on Constructing Composite Indicators. 6) OECD, 2009, Patent Manual Statistics.
	<b>18.00</b>	<b>END OF DAY</b>

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**Speaker****THURSDAY 9 DECEMBER 2010**

(16) NORBERT JANZ	<b>9.00</b>	<b>USING NON-CONVENTIONAL INDICATORS: INNOVATION SURVEYS, SURVEY DESIGN, SURVEY IMPLEMENTATION AND MONITORING</b>
	11.00	COFFEE BREAK
(17) ADAM SZIRMAI	<b>11.15</b>	<b>THE LOGIC OF EVALUATION</b> Reading: 1) Cracknell, B.E., <i>Evaluating Development Aid</i> , New Delhi/London, Sage Publications, 2000.
	13.15	LUNCH
(18) PARTICIPANTS	<b>14.15</b>	<b>EXPERIENCES WITH DESIGN, IMPLEMENTATION AND EVALUATION OF INNOVATION POLICIES: CASE STUDY PRESENTATIONS BY PARTICIPANTS SESSION I</b>
	15.45	COFFEE BREAK
(19) PARTICIPANTS	<b>16.00</b>	<b>EXPERIENCES WITH DESIGN, IMPLEMENTATION AND EVALUATION OF INNOVATION POLICIES: CASE STUDY PRESENTATIONS BY PARTICIPANTS SESSION II</b>
	17.30	DINNER

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**INDUSTRY EXPERIENCES II**

(20) Private Sector	<b>19.00</b>	<b>EXPERIENCES OF ARÇELİK</b>
		<b>EXPERIENCES OF TEKNODROM</b>
		<b>EXPERIENCES OF DURMAZLAR</b>

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**20.00** **END OF DAY**

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**Speaker**
**FRIDAY 10 DECEMBER 2010**

 (21) NORBERT  
JANZ **08.30**
**EVALUATING THE EFFECTIVENESS OF  
INNOVATION POLICIES**

- Basic Problems and Ideas of Evaluation
- Regression Analysis
- Average Treatment and Matching Methods
- Regression Discontinuity Designs

Readings:

- 1) Angrist, J. , 2008, *Mostly Harmless Econometrics: An Empiricist's Companion*, Princeton (Princeton University Press).
- 2) Imbens, G.W. and J.M. Wooldridge, 2009. Recent Developments in the Econometrics of Program Evaluation. *Journal of Economic Literature*, 47, 1-86.

10.00

**COFFEE BREAK**

 (22) TEOMAN  
PAMUKÇU **10.15**
**EVALUATION OF INNOVATION POLICIES  
(CURRENT TRENDS IN DEVELOPING COUNTRIES  
AND TURKISH EXPERIENCE)**

- Innovation Policies in DCs. Pre-1980 *versus* post 1980 period
- Innovation Policies in Turkey: Presentation and analysis
- Evaluation of R&D supports in Turkey (I): Econometric findings
- Evaluation of R&D supports in Turkey (2): Findings of the matching analysis

Readings:

- 1) Chudnovsky, D. A. López, M. Rossi, and D. Ubfal (2006), [\*Evaluating a Program of Public Funding of Private Innovation Activities. An Econometric Study of FONTAR in Argentina\*](#), Office of Evaluation and Oversight, Working paper OVE/WP-16/06, Buenos Aires, November.
- 2) Hall, B.H. and A. Maffioli (2008), [\*Evaluating the impact of Technology Development Funds in Emerging Economies: Evidence from Latin America\*](#), National Bureau of Economic Research (NBER) WP Series 13835, NBER, Washington DC.
- 3) Katz, J. (1994), "[Technology, economics and late industrialization](#)" In: Salomon, J-J., Sagasti, F., Sachs-Jeantet, C. (Eds.), *The Uncertain Quest: Science, Technology and Development*, United Nations University, New York.
- 4) Özçelik, E. and E. Taymaz (2008), "[R&D support programs in developing countries: The Turkish experience](#)", *Research Policy*, 37, 258–275.
- 5) Teubal, M. (1996), "[R&D and technology policy in NICs as learning processes](#)", *World Development*, 24, 449-460.

 (23)  
PARTICIPANTS **11.45**
**EXPERIENCES WITH DESIGN, IMPLEMENTATION  
AND EVALUATION OF INNOVATION POLICIES:  
CASE STUDY PRESENTATIONS BY PARTICIPANTS  
SESSION III**

13.15

**LUNCH**

 (24)  
PARTICIPANTS **14.15**
**EXPERIENCES WITH DESIGN, IMPLEMENTATION  
AND EVALUATION OF INNOVATION POLICIES:  
CASE STUDY PRESENTATIONS BY PARTICIPANTS  
SESSION IV**

 UNU-MERIT  
lecturers **15.45**
**PANEL DISCUSSION: REFLECTIONS ON  
INNOVATION POLICIES IN TUKEY**
**16.30**
**END OF DAY**


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**List of speakers:**



**1) UNU-MERIT:**

Prof. Dr. Adam Szirmai, Professorial Fellow UNU-MERIT

Prof. Dr. Luc Soete, Director UNU-MERIT

Ms. Claire Nauwelaers M.A., OECD

Prof. Dr. Anthony Bartzokas, Professorial Fellow UNU-MERIT

Dr. Semih Akçomak, UNU-MERIT and CPB

Prof. Dr. Norbert Janz, Visiting researcher UNU-MERIT and Aachen University

Dr. Elif Bascavusoglu-Moreau, Imperial College

**2) Speakers from Turkey**

Prof. Dr. Erol Taymaz, Middle East Technical University (METU)

Prof. Dr. Erkan Erdil, Middle East Technical University (METU)

Prof. Dr. Teoman Pamukçu, Middle East Technical University (METU)