IR 629  GLOBAL POLITICAL ECONOMY

World Dynamics and Decision Systems

Fall 2013

Instructor: Professor Orhan Güvenen

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Class Hours: Tuesday 15.40 – 17.30 / Friday 13.40 – 15.30, T - 172

Office Hours: Tuesday 13:30 - 15:30, AZ-02 (FEASS)

Lecture Starts: September 17, 2013 Tuesday

Course Outline:


1- Some comments on the scientific methodology, scientific methodology in natural and social sciences. Comments on the quantification techniques in sciences, mathematical complexity, fuzzy mathematics, econometrics, statistics, and global political economy. Information systems, information distortion and science. Transdisciplinary methodology in science.


GÜVENEN, O., (2005), "Bilim Metodolojisi, Teknolojiler ve Karar Süreçleri", Türkiye Bilimler Akademisi Forumu (TUBA), Konferans Tebliği, İstanbul.


3- World Dynamics, Technologies, Quantum Computing, Nanotechnologies; Their Impact on the Socio-Economic Structures, Global Economy and Decision Systems


ÇIRACI, S., and colleagues publications, UNAM (Institute of Materials Science and Nanotechnology), Bilkent University.


GÜVENEN, O., (2008), “Socio Economic Impacts of Nanotechnology and Value Added in the World and in Turkey”, presented at Faculty of Materials Science and Nanotechnology Graduate Seminar, Bilkent University, Institute of World Systems, Economies and Strategic Research, Ankara


4- Theory and Practice of Global Political Economy.


SEITZ, J.L., (2008), Global Issues, Blackwell, Messacussetts, USA


5- Liberalism and Interdependence


6- World Systems Theory, Strategic Modeling, Global Problematique and Decision Making.


7- International Financial Markets, Monetary Policies and World Real Economy, International Trade, Transnational Corporations and Globalization Interactions


FRIEDMAN, M., (1953), The case for Flexible Exchange RatesEvidence from Latin America.


8- International Organizations : Un System, OECD, EU, IMF, World Bank, Council of Europe Development Bank, WTO,e.g.

OECD, EU, IMF, Council of Europe, WTO publications


Strange, T. & Bayley, A., (2008), Sustainable development: linking economy, society, environment, OECD, Paris,


GÜVENEN, O., (2008), Socio-Economic Impacts of Nanotechnology and Value Added in the World and in Turkey, Faculty of Science Materials and Nanotechnology Graduate Program, Seminar, Bilkent University, Ankara.


10- PROJECT LINK Model System, EPA Model System, Quantitative Analysis and Anticipative Analysis

KLEIN. Lawrence R., B.G. HICKMAN and Peter PAULY Publications

EPA Publications, Tokyo


11- INTERLINK Model System

OECD Publications, Paris

LIMITS TO GROWTH 2004 Model System


12- Bringing The Gap Between Science, Decision-Making, Public Governance and Corporate Governance:

a. Strategic research and strategy evaluation,
b. Science, technology, patent, innovation, demand, production structure and decision systems
c. Critical thinking and problem solving
d. Future worlds and integrated assessment analysis and research.
e. Nanotechnology as an integral part of world dynamics and daily life


Grading Policy:

Midterm examination 30 %
Research paper 30 %
Attendance & Participation¹ 10%
Final examination¹ 30 %

¹Please note that attendance may count toward final exam visa. If participation is assessed, assessment criteria and/or rubric should be provided. It is not desirable for attendance alone to be a part of student grading.
