

**Laboratory of Geo-cultural Analyses of Greater Middle East and Turkey (Faculty of Turkish Studies and Modern Asian Studies)**

**Seminar: Cartography and Geographic Information Systems: Applications in Modern Geopolitics Systemic Analysis**

<b>January</b>					
1	16/1	12:30-14:15	From the Cartography of Prehistoric to the Greek Cartography	The comprehension and the perception of space before and after the Greeks to the contemporary cartographic representation.	Sidiropoulos G
2	24/1	12:30-14:15	Cartography basic facts	Map projections, background, center, frame, design, types of maps, map composition, the sketches, the production of the map in relation to the dimensions imaging...	Sidiropoulos G
3	31/1	12:30-14:15	From Gestalt psychology to Semiology of Graphics	Bertin's Visual Variables analysis on specific examples.	Sidiropoulos G
<b>February</b>					
4	7/2	12:30-14:15	Map presentation Mental and «Model» maps	Legibility of cartographic image. Mental and Concept Mapping in history and the present.	Sidiropoulos G
5	14/2	12:30-14:15	Neogeography	3D virtual cartographic representation. Maps in real time. Infographics and neogeography.	Sidiropoulos G
6	21/2	17:00-18:45	Introduction to G.I.S.	Terms and Definitions - Geopolitical Analysis using GIS. Data Bases and Data Mining. Spatial Data and Digital Terrain Models. Categories and Properties of Digital Geo - Spatial Data.	Panagiotis Panagiotopoulos
7	28/2	17:00-18:45	Digital Mapping and Coordinates Format.	Digital Geo-Spatial Data, Processing and Digital Mapping. Reference Levels, Layers, Overlays and Projections. National and International Systems of Coordinates. Hydrography -Telemetry - Aerial Photography -Remote Sensing.	Panagiotis Panagiotopoulos
<b>March</b>					
8	7/3	17:00-18:45	Global Positioning System. Introduction to G.P.S.	Global Positioning Systems and direct ties with GIS. GPS Users and Policy. GPS and Precision of Positioning. Controlling Geospatial Data and the New Environment of Global Security. WGS84 Standard and Differential GPS -DGPS	Panagiotis Panagiotopoulos
9	21/3	17:00-18:45	Open Sources of Geospatial Data and Political Communication.	Free access GIS for every day users. GIS for everyone and rapid data-mining. Internet GIS and Political Concerns over free access projections.	Panagiotis Panagiotopoulos

<b>April</b>					
10	11/4	17:00 18:45	GIS as a Decision Making Tool	Introduction to Decision Making. Geographical Environment and Human Action. GIS and Information Feedback. Systemic Analysis and Interesting Questions for the New Generation Geographer.	Panagiotis Panagiotopoulos
11	25/4	17:00 18:45	GIS in Depths – Geopolitical Analysis using special GIS Software.	ERDAS Imagine / Arc GIS. Capabilities and Preferences. State and Social Policy Making with GIS in mind.	Panagiotis Panagiotopoulos

<b>May</b>					
12	2/5	17:00 18:45	GIS Exercise A' GIS Problem Layout - Solving	GIS Tools for Problem Definition and Solving. GIS as a verification method. Elements of special GIS usage. GIS & Finance. GIS for Peace and Security Studies.	Panagiotis Panagiotopoulos
13	9/5	17:00 18:45	GIS Exercise B' GIS Certification – User Approvals	GIS for the Next Generation Political Analyst. After the Seminar Roadmap. GIS Certifications and Users. Current International GIS tendencies. Towards a Modern Geopolitical Analysis Lab.	Panagiotis Panagiotopoulos