

The Hebrew University of Jerusalem

Syllabus

Agriculture Industry & commerce in Late Antiquity - 43740

Last update 09-01-2016

HU Credits: 2

<u>Degree/Cycle:</u> 2nd degree (Master)

Responsible Department: Archaeology & Ancient near East

Academic year: 0

Semester: 2nd Semester

<u>Teaching Languages:</u> Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Prof. Gideon Avni

Coordinator Email: avnigid74@gmail.com

Coordinator Office Hours: By appointment

Teaching Staff:

Dr. Gideon Avni

Course/Module description:

This course will focus on archaeological aspects of agricultural systems, industrial installations and networks, and the commerce in agricultural and commercial goods in Late Antiquity in the eastern Mediterranean. The processes of continuity, innovation and changes will be evaluated through the archaeological findings

Course/Module aims:

<u>Learning outcomes - On successful completion of this module, students should be able to:</u>

- 1. To identify the agricultural and industrial installations prevailing in Late Antiquity.
- 2. To date the development and change in agricultural and industrial installations.
- 3. To evaluate the changes in these installations in the course of the Byzantine and Early Islamic periods.
- 4. To conclude from chronology and changes on the development of local and international trade systems

Attendance requirements(%):

80%

Teaching arrangement and method of instruction:

Course/Module Content:

- 1. Introduction: the agricultural and industrial installations in the late antique economy. The role of archaeological findings.
- 2. Agricultural fields, classification and chronology.
- 3. The spatial distribution of fields and installations.
- 4. Ancient agriculture in the Negev Highlands.
- 5. Sophisticated agricultural and irrigation technologies in the Near East.
- 6. The countryside and rural settlements.
- 7. Agriculture as an economic network wheat, oil, and wine.

- 8. Industry as an economic component.
- 9. The glass and pottery industries in Roman to Early Islamic Palestine.
- 10. Industry and mining systems.
- 11. Local and Regional economic networks.
- 12. The international wine trade.
- 13. Trade in the Mediterranean and Asian sphere, the evidence of archaeology.

Required Reading:

1. ספרות כללית - חקלאות וטכנולוגיות השקייה

אופנהיימר, א., כשר, א. רפפורט, א. (תשמ"ו). אדם ואדמה בארץ ישראל הקדומה, קובץ מחקרים. ירושלים.

Borsch, S.J. (2004). Environment and Population: The Collapse of Large Irrigation Systems Reconsidered. Comparative Studies in Society and History 46, 451-68. Decker, M. (2009a). Tilling the Hateful Earth: Agricultural Production and Trade in the Late Antique East (Oxford Studies in Byzantium). Oxford: Oxford University Press.

1. החקלאות הקדומה בנגב

. אבן ארי, מ. שנן, ל. ותדמור, נ. (תש"מ). הנגב – מלחמת קיום במדבר. ירושלים. רובין, ר. (תשנ"א). הנגב כארץ הנושב – עיור והתיישבות במדבר בתקופה הביזנטית. ירושלים.

Mayerson, P. (1962). The Ancient Agricultural Regime of Nessana and the Central Negeb. London: The British School of Archaeology in Jerusalem.

2. מערכות השקייה מורכבות: מאגרים, תעלות וקנאתים

Lightfoot, D. R. (2000). The Origin and Diffusion of Qanats in Arabia: New Evidence from the Northern and Southern Peninsula. The Geographical Journal 166:215-226.

3. יין ושמן - תהליכי ייצור, עודפים ומסחר

Taxel, I. (2013). The Olive Oil Economy of Byzantine and Early Islamic Palestine: some Critical Notes. Liber Anuus 63, 361-94.

Mayerson, P. (2008). 'The Wine of Ashkelon in Byzantine Texts', in L. E. Stager (ed.), Ashkelon 1: Introduction and Overview (1985-2006). Winnona Lake IN: Eisenbrauns, 471-477.

ההתיישבות החקלאית בארץ ישראל ובסוריה.4 סופוטמיה .5 חקלאות ויישובים חקלאיים בצפון אפריקה, מצרים, מסופוטמיה.5 Gilbertson, D., Hunt, C. and Gillmore, G. (2000). Success, Longevity and Failure of Arid-land Agriculture: Romano-Libyan Floodwater Farming in the Tripolitanian Predesert. In G. Barker and D. Gilbertson (eds.), The Archaeology of Drylands. London: Routledge, pp. 138-59.

6. החקלאות כמשאב כלכלי - מהפכה חקלאית אסלאמית?

Watson, A. M. (1981). 'A Medieval Green Revolution: New Crops and Farming Techniques in the Early Islamic World', in A.L. Udovitch (ed.), The Islamic Middle East 700-1900: Studies in Economic and Social History. Princeton: Princeton University Press, 21-42.

Watson, A. M. (1983). Agricultural Innovation in the Early Islamic World – the Diffusion of Crops and Farming Techniques. Cambridge: Cambridge University Press.

Decker, M. (2009b). 'Plants and Progress: Rethinking the Islamic Agricultural Revolution'. Journal of World History 20:187-206.

Nol, H. (2015). The Fertile Desert: Agriculture and Copper Industry in Early Islamic Arava (Arabah). PEQ 147, 49-68.

7. תעשייה ומכרות

Shaw, C. T. and Rothenberg, B. (2000). 'An Early Islamic Gold-Mining Industry in Wadi Tawahin in the Southern `Arabah?', IEJ 50:235-242.

8. מערכות מסחר מקומיות ובינלאומיות

Armstrong, P. (2009), 'Trade in the east Mediterranean in the 8th century', in M.M. Mango (ed.), Byzantine Trade, 4th-12th Centuries – the Archaeology of Local, Regional and International Exchange (Papers of the Thirty Eighth Spring Symposium of Byzantine Studies, St. John's College, University of Oxford, March 2004). Surrey: Ashgate, 157-78.

Heidemann, S. (2015). How to Measure Economic Growth in the Middle East? A framework of Inquiry for the Middle Islamic Period. In D. Talmon-Heller and K. Cytryn-Silverman (eds.), Material Evidence and Narrative Sources, Interdisciplinary Studies of the History of the Muslim Middle East. Leiden: Brill, pp. 30-57.

Kingsley, S. A. (2001). 'The Economic Impact of the Palestinain Wine Trade in Late Antiquitiy', in S. Kingsley and M. Decker (eds.), Economy and Exchange in the East Mediterranean during Late Antiquity. Oxford: Oxbow, 44-68.

Kingsley, S. A. (2003). 'Late Antique Trade: Research Methodologies and Field

Practices', in L. Lavan and W. Bowden (eds.), Theory and Practice in Late Antique Archaeology. Leiden: Brill, 113-138.

Mango, M. M. (1996). 'The Byzantine Maritime Trade with the East (4th -7th centuries)', ARAM 8:139-163.

Mango, M. M. (2009). 'Byzantine Trade: Local, Regional, Interregional and International', in M.M. Mango (ed.), Byzantine Trade, 4th-12th Centuries – the Archaeology of Local, Regional and International Exchange (Papers of the Thirty Eighth Spring Symposium of Byzantine Studies, St. John's College, University of Oxford, March 2004). Surrey: Ashgate, 3-14.

Pieri, D. (2012), 'Regional and interregional exchanges in the Eastern Mediterranean during the early Byzantine period. The evidence of the amphorae', in C. Morrisson (ed): 27-49.

Walmsley, A. (2000). 'Production, Exchange and Regional Trade in the Islamic East Mediterranean: Old Structures, New Systems?', in. I.L. Hansen and C. Whickham (eds.), The Long Eighth Century. Leiden: Brill, 265-345.

<u>Additional Reading Material:</u>

Course/Module evaluation:
End of year written/oral examination 0 %
Presentation 0 %
Participation in Tutorials 30 %
Project work 60 %
Assignments 10 %
Reports 0 %
Research project 0 %
Quizzes 0 %
Other 0 %

Additional information: