

COURSE OUTLINE

Electronic Transactions

by

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Contact Info

Tutors:

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Course Material: <http://academics.epu.ntua.gr>

Mission

- Understand the fundamental issues in eTransactions
- Get to learn what eBusiness and eGovernance is
- Familiarisation with Web technologies and Applications used by enterprises and organisations
- Enhancement of your IT background knowledge in domains needed in the market

Course Structure ^{1/2}

Section	Contents
1. Introduction to eTransactions	History, Internet and the Web, Definitions, Basic Keywords, Why eTransactions? Benefits, Risks, Trends
2. The B2x world	Business-to-Consumer, Business-to-Business, Business-to-Government, Business-to-Bank, Business Models in the Internet Era, Case Studies
3. Electronic Supply Chain Management	eSCM, Tradition vs. Modern Approaches, Virtual Organisation, Virtual Factories, New needs, Trends, Solutions, Case Studies, Industry 4.0, Product-Service Coexistence
4. Government and eTransactions	Government and IT, eGovernment Systems, eParticipation, Policy Modelling, Gov2.0, Case Studies
5. Interoperability	Interoperability Key Issues, Elements, Relations to Other Sciences, Enterprise Interoperability, eGovernment Interoperability, Case Studies

Course Structure *2/2*

Section	Content
6. Social Media and the New WWW Economy	Web2.0, Social Media, Social Networks, Economy 2.0, Emerging Opportunities, Trends, Case Studies
7. Internet of Everything	Internet of Things, Internet of Services, Cloud Computing, Cyber-Physical Systems, Case Studies
8. Open, Linked and Big Data	Open Data Standards, Repositories, Vocabularies, RDF, SPARQL, Hadoop, Storm, Case Studies
9. Semantic & Technical Interoperability in Practice	XML, XSD, Data Modelling, Web Services and SOA, JSON, APIs
10. Organisational Interoperability in Practise	Business Process Definition, Aspects and Characteristics, Modelling methods, Notations, Case Studies
11. Security Issues and Evaluation of eTransactions	Security, Authentication, Authorisation, Legal Issues, Evaluation metrics, eGov Statistics

+ Presentations from Industry and Relevant Projects

Course Implementation

- In-class lectures
- In-class discussions
- Webinar – MOOC sessions
- Case Study Presentations
- Assignments to be presented in class

Course Examination

1st Option

Final exam without support from notes/textbooks (threshold 5/10)

2nd Option

0.6 * Final exam without support from notes/textbooks (threshold 5/10)

+

0.4 * In-class presentation + report of assignment

Personal Assignment ^(1/1)

- Optional
- For **individuals** (or 2 persons)
- A “hot” topic on eTransactions (to be evaluated)
- 15-20 min in-class presentation followed by 5min questions
- 5p report with the major findings + bibliography

Personal Assignment ^(2/2)

- Send your emails to the email box
 - Provisional Title
 - 4-5 lines description of the topic
- **Deadline 25/10/2016**

Selection of 6-9 assignments max

Notification: 26/10/2016

Presentations starting mid December

Indicative Bibliography

- The Internet!
- Beynon-Davies (2004). *e-Business*. Houndmills, Basingstoke, Hampshire: Palgrave Macmillan
- Chaffey (2002). *E-Business and E-Commerce Management*. Essex, UK: Pearson Education
- Chesher & Kaura (1998). *Electronic commerce and business communications*. London; New York: Springer
- Laudon & Traver (2002). *E-commerce: Business. Technology. Society*. Boston: Addison Wesley
- Phillips (2003). *E-Business Strategy: Text And Cases*. Maidenhead, UK: McGraw-Hill Education
- Siegel (2004). *Internet Marketing: Foundations and Applications*. Boston: Houghton Mifflin Company
- Turban, King, Lee, Warketin, & Chung (2009). *Electronic commerce: a managerial perspective*. Upper Saddle River, NJ: Pearson Education, Prentice Hall

QUESTIONS

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