COURSE OUTLINE

Electronic Transactions

by
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Contact Info

Tutors:
• Dr. S. Koussouris
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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
<table>
<thead>
<tr>
<th>Section</th>
<th>Contents</th>
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<tbody>
<tr>
<td><strong>1. Introduction to eTransactions</strong></td>
<td>History, Internet and the Web, Definitions, Basic Keywords, Why eTransactions? Benefits, Risks, Trends</td>
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<tr>
<td><strong>3. Electronic Supply Chain Management</strong></td>
<td>eSCM, Tradition vs. Modern Approaches, Virtual Organisation, Virtual Factories, New needs, Trends, Solutions, Case Studies</td>
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<tr>
<td><strong>5. Interoperability</strong></td>
<td>Interoperability Key Issues, Elements, Relations to Other Sciences, Enterprise Interoperability, eGovernment Interoperability, Case Studies</td>
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## Course Structure 2/2

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<tbody>
<tr>
<td>6. Social Media and the New WWW Economy</td>
<td>Web2.0, Social Media, Social Networks, Economy 2.0, Emerging Opportunities, Trends, Case Studies</td>
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<tr>
<td>7. Internet of Everything</td>
<td>Internet of Things, Internet of Services, Cloud Computing, Cyber-Physical Systems, Case Studies</td>
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<td>8. Open, Linked and Big Data</td>
<td>Open Data Standards, Repositories, Vocabularies, RDF, SPARQL, Hadoop, Storm, Case Studies</td>
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<tr>
<td>9. Semantic &amp; Technical Interoperability in Practice</td>
<td>XML, XSD, Data Modelling, Web Services and SOA, JSON, APIs</td>
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Course Implementation

• In-class lectures
• In-class discussions
• Case Study Presentations
• Assignments to be presented in class
Course Examination

1\textsuperscript{st} Option
Final exam without support from notes/textbooks (threshold 5/10)

2\textsuperscript{nd} Option
0.6 * Final exam without support from notes/textbooks (threshold 5/10)

+ 0.4 * In-class presentation + report of assignments
Indicative Bibliography

• The Internet!


QUESTIONS

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