

INFORMATICS ENGINEERING

Department of Electronics & Computer Engineering
Hellenic Mediterranean University

Course title & identity

- Title
 - *Topics in Management Information Systems (MIS)*
- Teaching
 - Three (3) hour *lectures* with laboratory classes as needed
- Focus
 - *Information Systems / Enterprise computing*
- Course delivered through *Open Class*
 - <https://eclass.hmu.gr/courses/ECE244/>

Objectives & methods

- Learning objectives
 - Gaining insights into the *disruptive* role of technology in modern *enterprises*
 - Technology-based disruption as *re-organizing business routines*
 - Implications on a broad range of MIS topics including
 - ✓ *Data management strategy*
 - ✓ Enterprise *architectures*
 - ✓ *Digital platforms* and the *sharing economy*
 - ✓ Collaboration practices in *data-driven enterprises*, etc.

Objectives & methods (cont.)

- Methods

- Case study-based research











- Working with structured case studies for either *reflection* or *analytical* insight
 - Real-life problem description and *reflection* on how certain issues can be remedied
 - Acquaintance with specific *analytical* & *empirical* constructs/techniques
 - ✓ Qualitative / quantitative *data analysis*
 - ✓ Structured *argumentation* (state of the art reviews, critical thinking, presentation skills)
 - Notations for representing enterprise workflows, *routines* and *data-oriented challenges*

Themes and focus

- Overview
 - Classical perspectives on MIS
 - Transactional data, Workflows, Information Systems such as CRMs, ERPs, Data warehouses, etc.
 - Data-driven enterprises
 - Semi-structured and unstructured data, Enterprise routines, Data management strategy, Data-driven operations
 - Disruptive technologies in context
 - Social web sites
 - Digital platforms
 - Intra/inter-organizational collaboration
- Case study
 - Variable focus
 - Two broad types
 - Reflection as a lens to case analysis
 - ✓ Data science at Netflix
 - Analytical / empirical lens
 - ✓ Travel industry
 - ✓ Auctions
 - ✓ Customer Relationship Management

Laboratory work

- Types of assessed work
 - Case study analysis (Building analytical insight & skills)
 - Essay writing and critical review (Building argumentative skills)
 - Report on ‘currently hot’ topic (structured reviews)
- In general students will engage in individual and group work (example from the recent past)

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|---|---|-------------------|-------------|
|  Assignment 1-Templates |  | 2/5/2020 10:53 AM | File folder |
|  Assignment 2-DFDs |  | 2/5/2020 10:53 AM | File folder |
|  Assignment 3-UCMs |  | 2/5/2020 10:53 AM | File folder |
|  Assignment 4-Κριτική ανάπτυξη θέματος |  | 2/5/2020 10:53 AM | File folder |
|  Assignment 5-eTravel 2.0 |  | 2/5/2020 10:53 AM | File folder |

Assessment

- No final exam !
- Four criteria
 - Individual assignment (25%)
 - Project report (50%)
 - Project presentation (15%)
 - In class (10%)

| | % | AM 001 | Τελικός |
|-----------------------|----------|---------------|----------------|
| Individual assignment | 25 | 80 | 2000 |
| Group project | 50 | 75 | 3750 |
| Presentation skills | 15 | 70 | 1050 |
| Weekly contribution | 10 | 40 | 400 |

7200

7,2

Applicant profile

- Pre-requisites
 - Motivation and commitment
 - No pre-requisite of specific technology
- Skills
 - Analytical and design-oriented thinking
 - Capability to study foreign scholarship
- Expected weekly workload (over and above attendance)
 - 2 man-days per week