Università "La Sapienza" di Roma

CORSO DI LAUREA MAGISTRALE in INFORMATICA
Master Degree in Computer Science
«*Information Systems*»
Lezione introduttiva - *Foreword*

DIPARTIMENTO
DI INFORMATICA

SAPIENZA
UNIVERSITÀ DI ROMA

Franco Stolfi

Academic year 2017-2018

february 2018

Information Systems course

Agenda

- Learning objectives

- Need of competent ICT professionals

- Multilingual audience

- Program & (preliminary) schedule

- Exam rules

- Student access to training material

- Textboks (Italian/*English*)

Information Systems course

Learning objectives

Main Objective: to be acknowledged as a <u>competent</u> ICT professional

- **Knowledge**
  - functional model and info structure of business processes
  - integration needs and control requirements of business computer systems data
  - systems and technologies to develop&maintain a successful e-business
  - main application areas of info systems in various industries
  - ICT organization and mainstream techniques (e.g. quality management)
  - basic techniques/approach for project managament in ICT

- **Capabilities**
  - To analyze the multi-faceted requirements elicited from different user categories (stakeholder) of info systems
  - To select the proper application architectures, developing related feasibility study
  - To prepare, for a simple ICT project, a develpment plan according to usual constraints on time, cost, quality and to design appropriate organization
  - To control an ongoing ICT project, applying basic project management techniques
  - To understand and appreciate the *lessons learned* in previous projects

Information Systems course
Multilingual audience

Main Objective: to be mutually "in touch"

- Faculty
  - Lessons (speeches) in English
  - Visual material (slides) in English
  - Training references (books) in English & Italian
  - Pointer to course program for reference book (chapters)

- Students
  - Questions (always welcome) in English or Italian
  - Strong effort to talk in the other (not mother tongue) language
  - Mail in English
    - Franco Stolfi: stolfi@di.uniroma1.it

Information Systems course

Course content

- ## Program (draft)
  - I. **Business Info Systems**
    - Business & Info systems organization
    - Transactional systems (e.g. ERP)
    - Informational systems (Data wharehousing/mining, Data analytics)
    - Decision making support
  - II. **Quality in Systems Development**
    - ICT sw/services/data quality metrics
    - Feasibility study features/needs
  - III. **Project Management (basics)**
    - Business context/rules
    - Common planning&control techniques (hard skills)
    - Team&Stakeholder management approach (soft skills)

Information Systems course

Course schedule (preliminary)

- Course schedule (preliminary)
    - Lessons: Feb. – May 2018
    - Vacations (Easter): Mar. 29th to Apr 3erd
    - Exam sessions: Jun-Jul; Sept;
    - Exam extra sessions: Jan-Feb, mar-apr 2019 (on condition)

- Where&when (to be confirmed)
    - Aula Alfa di Via Salaria 113
        (c/o Dipartimento di Informatica)
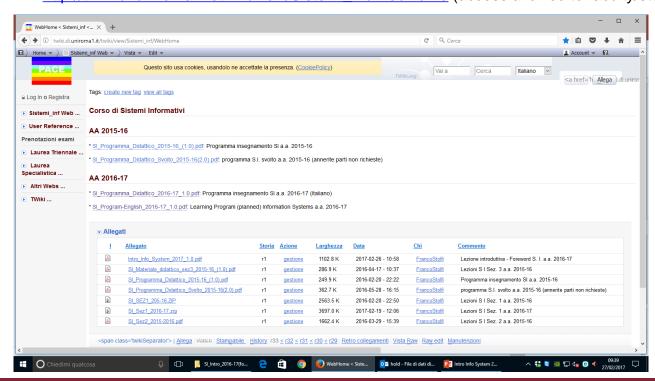   - Tue. & Thu. 14,00-16,30

Information Systems course

Exam rules

- Scope
  - Only subjects actually showed in course lessons
1. Written test (quiz mode)
   - 10 questions
   - 4 possible answer per question
   - 1 correct answer only (tick mark)
2. Oral exam (selective)
   - Student > 50% right answer to written test
   - 1 question (focus on wrong answers in written test)
- Where&when (to be confirmed)
  - Aula Alfa di Via Salaria 113 (c/o Dipartimento di Informatica)

Information Systems course

Student access to training material

- Twiki website: course program & free training material
  - Credential to twiki access (student mail address by segreteria)
    http://twiki.di.uniroma1.it/twiki/view/Sistemi_inf/WebHome (access allowed to faculty/students)

Information Systems course

Student access to training material

- Restricted platform: copyrighted training material
  - Warning: copyrigt by publisher & authors on traning material
    - sect. 1&3 not to be traded/distributed
  - Credential to restricted platform access
    - students ask access by «student official mail» to faculty
    - faculty grants student access to restricted platform

> ⚠ This work is protected by United States copyright laws and is provided solely for the use of instructors in teaching their courses and assessing student learning. Dissemination or sale of any part of this work (including on the World Wide Web) will destroy the integrity of the work and is not permitted. The work and materials from it should never be made available to students except by instructors using the accompanying text in their classes. All recipients of this work are expected to abide by these restrictions and to honor the intended pedagogical purposes and the needs of other instructors who rely on these materials.

Information Systems course

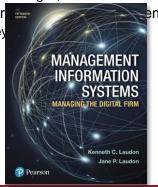Student access to training material

To receive the slides of each section send mail to

stolfi@di.uniroma1.it
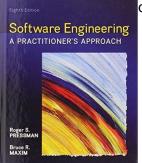
Information Systems course

Textbooks (Italian/*English*)

- Business Information Systems
  - A. Marzona, M. Pighin: «Sistemi Informativi Aziendali» (2/ed)
    Pearson Education Italia, 2011
  - *K. Laudon, J. Laudon: «Management Information Systems - Managing the Digital Firm (15/ed.)*
    Pearson Education, 2016
  - *K. Laudon, J. Laudon: «Management Information Systems - Managing the Digital Firm (13/ed.)*
    Pearson Education, 2014
    (http://www.icto.info/laudon-management-information-systems-13th-global-edition-c2014-1.pdf)

- Software Engineering
  - R.S. Pressman: «Principi di Ingegneria del software» (5/ed.)
    McGraw-Hill Education (Italy), 2008
  - *R.S. Pressman, B.R. Maxim: «Software Engineering: A Practitioner's Approach» (8/ed.),*
    McGraw-Hill (USA), 2014

- Project Management
  - ISIPM: «Guida alla Conoscenze di gestione progetti» (3/ed.)
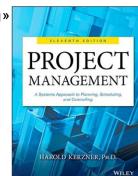   Franco Angeli, 2015
  - Ker... ...eme... ...oa... ...du... ...g»
    ...iley...

Information Systems course

Question & Answers

Question	Answer

Information Systems course

Stay tuned!

Franco Stolfi
mail: stolfi@di.uniroma1.it