Master's Degree in Engineering in Management Science Sapienza Università di Roma

Process Management and Mining A.A. 2020/2021

0 - Course Introduction

Andrea Marrella

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General Information

- Credits: 6 CFU
- Lecturer:
 - Andrea Marrella (Sapienza, University of Rome)
 - Email: marrella@diag.uniroma1.it

When:

- Tuesday, 17:00-19:00
- Friday, 14:00-17:00
- Where:
 - in room A3 @ DIAG
 - online using Zoom (check the Piazza web page)

Office Hours

When:

- By appointment.
- To have an appointment, it is required to send an email to the instructor at least one day before.

Where:

 On-line, using a dedicated link of Google Meet or Zoom.

General Information

Web page of the course:

https://piazza.com/uniroma1.it/fall2020/pmm2021

Access code

- PMM@Sapienza2021
- Piazza will be used to send news/communications to the course attendees, to upload the slides and the links to the tools required for the course.
- Piazza provides a chat to communicate with the other students and the instructor. Use it when needed!
- Use your Sapienza institutional account to sign up on Piazza and Zoom (to avoid the waiting room).

Short Description

- This course introduces key principles and methods of **Business Process Management** (BPM) along the entire lifecycle of business processes: from identification to redesign, automation, execution, monitoring and mining.
- The course emphasizes the role of business **process** models as an instrument to understand and analyze business operations, and to drive the design of Information Technology solutions that support the execution of business processes.
- The course combines business and IT methods and is designed both for IT and business students.

Main Topics

- Process Management in Organizations
- Process Identification
- Design of Business Processes
- Process Modeling with BPMN
- Qualitative and Quantitative Process Analysis
- Process Simulation
- Process Redesign
- Process Automation and Execution
- Process-Aware Information Systems
- Process Mining

Exam

- One practical project to be held in groups of 2-3 students, or – in special cases – individually.
- An oral discussion consisting of a list of questions and exercises related to the course topics.
 - Both can be carried out <u>during the exam dates</u>.

Practical Project

- Students are strongly encouraged to propose their own idea for projects.
 - Send an email to the teacher to ask for the assignment of a project (please, do not start performing a project before you have it assigned).
- The project must cover the phases of process modeling/simulation/execution/mining.
- Projects consist of concretely using the tools investigated during the course through one or more realistic examples/case studies.
- A presentation of the project (possibly performed with slides) is required.
- The presentation should also include a working demo of the developed project.