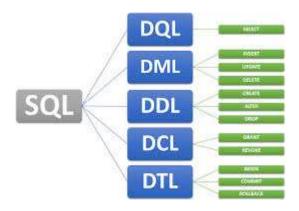Academic Year 2020/2021

MANAGEMENT INFORMATION SYSTEMS

Academic Year 2020/2021

MANAGEMENT INFORMATION SYSTEMS

Presentation

- Professor

- Objectives

- Program

- Bibliography

- Evaluation rules

Intructor

Carlos J. Costa, PhD
Associate Professor

email: cjcosta@iseg.ulisboa.pt

http://vizualize.me/CarlosJCosta

Learning Goals

1. Discussion of the main problems related to the use of ISs in organizations;

2. Main tools for planning, analysis and development of ISs;

3. Presentation of real cases for knowledge consolidation

Syllabus

1. **Introduction to the course**

2. **Information Systems Development**

3. **Systems Requirements**

4. **Fundamentals of Object Oriented Design**

5. **Unified Modelling Language (UML)**

6. **System Implementation**

7. **Business Intelligence.**

Assessment

- 50% Project part 1

- 25% test 1 (quiz 1 to quiz 5)

- 25% test 2 (quiz 6 to quiz 10)

- During tests:
  - Students should also not retain or refer to any books or papers during any test except with the express permission of the instructor or teaching staff.
  - Personal belongings should be put away and all mobile phones and other electronic devices should be turned off.

  - or

- Exam 1 (If student choose this option and has possibility of passing, will loose the previous marks from test1 and test2)

- Exam 2

Deadlines

1. 5th of February: The Project statement available

2. 11th of March: Approval of the project

3. 1st of April: Midterm test

4. 14th of April: 1st submission (report with requirements and UML and MS Access)

5. 7th of May: 2st submission (Power-BI and report)

6. 7th of May: 2nd Test

7. 19th and 20th of May: Discussion

Project deliveries

1. Each group shall deliver the following elements:

2. The report (pdf ou doc) and information about site sent by email to cjcosta@iseg.ulisboa.pt

3. The report shall include:

   - Description of the problem

   - Description of the solution and its implmentation

   - Use case diagram, activity diagrams and class diagram (using MS-Visio, Objecteering, draw.io or Idea Modeler)

   - Identification of the main limitations of the solution proposed

   - Conclusion and references

4. Data base using MS Access

5. Defition of KPIs

6. The second submission will include PowerBI dashboards

7. Presentation is mandatory to all the members of the team

1. All the deliveries must be submitted through Aquila unti 23:59 of the deadline date

Fraud in the evaluation process

1. In line with nr. 2 of RGAC (Evaluation Regulations) 2007-08:

2. All confirmed frauds in the evaluation process, such as copied written tests or other works, imply failure in the course and must be reported by the Director to the Admin Services.

3. The transgressor will not be allowed to the next three opportunities.

4. Any appeal will be decided by the President of Pedagogical Council along with the students' elected Vice-President.

Bibliography

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Silva, Alberto, Videira, Carlos (2005). UML Metodologias e Ferramentas CASE, 2ª Edição, Centro Atlântico, Publishing Ld, ISBN: 989-615-009-5. (cota na biblioteca: QA76.758.S55 2001)

Damas, L (2017) SQL. Lisboa: FCA.

Dennis, Wixom, Tegarden (2006). Systems Analysis and Design with UML Version 2.0: An Object-Oriented Approach, 2nd Edition, Wiley, ISBN: 978-0-471-65920-4. (cota na biblioteca: QA76.9.S88.D45 2005)

Laudon, K. C. & Laudon, J. P. (2011) Management Information Systems Managing the digital firm, (12th edition). Prentice Hall.

Questions

Prof. Carlos J. Costa, PhD

Rua Miguel Lupi, nº 20 – sala 318

Tuesday - 17:00 - 19:00