

Sistemas de Informação e Bases de Dados

Lab 04: Entity-Association Modelling – PART II

Present the E-A model corresponding to each of the following scenarios

Exercise/Scenario 5. The University Course Management System

Consider the following management requirements for a system that manages enrolment information in courses in university:

- The university offers studies programs that consist of courses;
- A course has a code that identifies it, a title, a plan of lessons (syllabus) and a number of credits;
- Each course may have other courses as prerequisites;
- Each course can have multiple editions;
- An edition of a course can be taught by only one teacher;
- Each edition occurs in the first or second semester of a given school year;
- Each teacher has a teacher id and a name
- It is necessary to know the department of a teacher;
- Students have a student id, a name and courses in which they are enrolled;
- Students register in studies programs;
- A student can enrol only in the courses of the studies programs that they are registered in;
- Students are given grades in the editions of courses on which they have enrolled.