Project led education in engineering courses: competencies to include

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Abstract - As a result of the implementation of the Bologna Declaration and the growing emphasis on lifelong learning in a knowledge society, project education has been implemented in a number of engineering courses at the University of Minho. The degree to which the project is influencing the curriculum varies from course to course. In some course, the project is a project exercise in which already acquired knowledge is applied, in others, the project is the leading element of the semester and other subjects depend entirely on the project. In each case, the project has to be designed in such a way that all or most subjects of the semester are to some extent represented in the project. The competencies as developed for the project have to meet several requirements. In the first place, they have to be based in the subjects or content areas that form the project. They also have to fit within the general framework of the course and general project specifications of a particular semester. Apart from these demands, each project has to meet a number of specific requirements, related to the problem to be solved during the project: the solution needs to "work". Finally, the competencies defined in project education need to represent a number of soft skills. The article explores three student guides and the kind of competencies involved in three different project learning experiences.

Index Terms - Project-based learning, competencies, softskills,

INTRODUCTION

Because of the demands of the Bologna Declaration, which is, among other aspects, focussed on lifelong learning in a knowledge society, students at the University of Minho started to work in projects, as described in Powell and Weenk [1]. Project-Led Education (PLE) is replacing traditional teacher-centred education partly or entirely in a number of technical courses. Morgan, cited in Helle [2] described three general models of project work in education. The project exercise is the first one, aimed at applying knowledge and techniques already acquired in a familiar context. This kind of project work usually takes place within a subject. The second model is the project-component model

in which the project is more interdisciplinary and related to real world issues. This kind of project work is normally in parallel with other subjects. The third kind of project work replaces the traditional subjects by a complete project approach to the course as a whole. Projects are the basis of the curriculum and the learning goals are reached through a number of projects. Most of the projects that take place at the courses of the University of Minho use a project component approach, whereas one course substituted a traditional five or six subject semester almost completely by one project.

The main characteristics of the project approach are a focus on student-centred learning as opposed to teacher-centred learning. Students work in teams on open-ended real and existing problems and share the responsibilities for the process and the outcomes of the project. Teamwork is regarded as a way to construct knowledge. During this teamwork, students develop a sense of creativity and taking initiative. They develop critical thinking skills and communication skills. The content of the project is not related to one specific curricular area, but is interdisciplinary, reflecting the problems that students will face after their graduation.

COMPETENCIES AND SKILLS

In each project, students develop different kinds of skills and competencies. Competencies are broader than skills in a sense that they include an inseparable set of skills as well as knowledge and behaviour aimed at a specific result in certain circumstances [3]. Competencies are contextualised and placed in a professional context. To develop competencies, processes of learning and development are necessary. Competencies are usually interrelated. In project-led education, three types of competencies can be distinguished: general technical competencies that are often related to a specific subject, project-related technical competencies and non-technical competencies [4]. The general technical competencies are related to various disciplinary areas and are rather constant from one year to the next. They represent the technical competencies as described in the curriculum of the course. The more specific technical competencies are associated with one specific project and have to do with the topics that students are supposed to work on. In each project, students work on a theme, a problem and a solution and they

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