

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, soft-skills.

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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Project Led Engineering Education

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Project Led Engineering Education:

Project-Led Engineering Education Weenk Powell, Peter Powell, Wim Weenk, 2003 Are you or is your university satisfied with the motivation and rate of progress of students participating in the Bachelor's phase of your engineering degree program Would you like your students to master the necessary technical skills of modern engineering and to learn to study and to communicate effectively and efficiently This book addresses these questions and explains how to successfully make the substantial change from a traditional teacher led approach to a student team based project led approach to handling the Bachelor part of the engineering curriculum The book also describes what Project Led Engineering Education is all about and how team based learning works

WASTES - Solutions, Treatments and Opportunities II Candida Vilarinho, Fernando Castro, Maria de Lurdes Lopes, 2017-09-01 Wastes Solutions Treatments and Opportunities II contains selected papers presented at the 4th edition of the International Conference Wastes Solutions Treatments and Opportunities that took place 25-26 September 2017 at the Faculty of Engineering of the University of Porto Porto Portugal The Wastes conference which takes place biennially is a prime forum for academics and industry representatives from the waste management and recycling sectors around the world to share their experience and knowledge with all in attendance The published papers focus on a wide range of topics including Wastes as construction materials Wastes as fuels Waste treatment technologies MSW management Recycling of wastes and materials recovery Wastes from new materials nanomaterials electronics composites etc Environmental economic and social aspects in waste management and Circular economy

Overcoming Challenges in Software Engineering Education: Delivering Non-Technical Knowledge and Skills Yu, Ligu, 2014-03-31 Computer science graduates often find software engineering knowledge and skills are more in demand after they join the industry However given the lecture based curriculum present in academia it is not an easy undertaking to deliver industry standard knowledge and skills in a software engineering classroom as such lectures hardly engage or convince students *Overcoming Challenges in Software Engineering Education: Delivering Non-Technical Knowledge and Skills* combines recent advances and best practices to improve the curriculum of software engineering education This book is an essential reference source for researchers and educators seeking to bridge the gap between industry expectations and what academia can provide in software engineering education

Project-led engineering education (PLEE): who is afraid of student team based learning?, 39th John Player Memorial Lecture, London, 17 March 2004 Peter Powell, 2004

Back to the Future Maria Assunção Flores, Ana Amélia Carvalho, Fernando Ilídio Ferreira, Maria Teresa Vilaça, 2013-06-13 Schools and teachers are facing various challenges in a rapidly changing world In such circumstances discussing and sharing concerns of mutual interest regarding policy practice and research is crucial to creating more sophisticated understandings of the various challenges as a first step in the improvement of education While the future should not be imprisoned in the past the past does provide valuable lessons that will undergo new iterations in constructing the future The future will be

multi faceted and complex and the different chapters included in this book are intended to provide important contributions from which to build the future of education The different chapters provide readers with international perspectives frameworks and empirical evidence of legacies continuities and changes in educational policy practice and research in teaching teacher education and learning We hope that they inspire the readers to build the future and to change their own professional realities Cheryl J Craig Ph D Professor University of Houston Houston TX USA Secretary ISATT This book metaphorically captures the looking backward to the past pressing forward to the future that typically takes place on celebratory occasions It causes us to pause and remember even as we race toward a time unknown to us In a sense the authors featured in this book serve as tour guides pointing out legacies continuities and changes in teaching and teacher education I strongly urge readers not only to peruse the chapters that follow but to distill them to their essences and to glean what is of value to be learned from them In conclusion the ISATT Executive especially thanks the co editors of this volume who have compiled a superb collection of chapters on a timely and relevant topic *Educational Media and Technology Yearbook* Michael Orey, Stephanie A. Jones, Robert Maribe Branch, 2014-06-12 The latest edition of the Educational Media and Technology Yearbook from the Association for Education Communication and Technology AECT notes the most current trends in the field of learning design and technology taking into account the implications for both formal and informal learning Pivotal research and discussion surrounding educational trends leadership organizations and programs have all been updated from volume 37 Chapters train their focus on graduate and professional goals including an analysis of doctoral programs in educational technology and new collaborative learning platforms Library science is a featured component of this analysis and Library Science programs are featured prominently in this analysis This edition also features new content on mediagraphy

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Proceedings of the 10th International Conference on Lifelong Education and Leadership for ALL (ICLEL 2024) Carlos Francisco de Sousa Reis, Monika Fodor-Garai, Osman Titrek, 2025-04-27 This is an open access book With globalization s effects having been felt all over the world The European Union has changed its perception of Lifelong Education LLE and its importance has gained more acknowledgement than ever before In accordance with European Union s interest in shaping the

new generation to continually grow and develop their career using Lifelong Education programs of EU In light of these developments this conference aims to discuss and debate how the new generation can consistently grow and succeed in the Business Economic and Education sectors by fully understanding and continually applying Lifelong Leadership concepts and perspectives In addition it will focus on how to provide equal educational opportunities for the citizens in this competitive world for everybody in all age groups

Bulletin No. of the Investigation of Engineering Education Society for the Promotion of Engineering Education (U.S.). Board of Investigation and Coordination,1928

Handbook of Research on Determining the Reliability of Online Assessment and Distance Learning Moura, Ana S.,Reis, Pedro,Cordeiro, M. Natália D. S.,2020-11-13

Though in the past online learning was considered of poorer professional quality than classroom learning it has become a useful and in some cases vital tool for promoting the inclusivity of education Some of its benefits include allowing greater accessibility to educational resources previously unattainable by those in rural areas and in current times it has proven to be a critical asset as universities shut down due to natural disasters and pandemics Examining the current state of distance learning and determining online assessment tools and processes that can enhance the online learning experience are clearly crucial for the advancement of modern education The Handbook of Research on Determining the Reliability of Online Assessment and Distance Learning is a collection of pioneering investigations on the methods and applications of digital technologies in the realm of education It provides a clear and extensive analysis of issues regarding online learning while also offering frameworks to solve these addressed problems Moreover the book reviews and evaluates the present and intended future of distance learning focusing on the societal and employer perspective versus the academic proposals While highlighting topics including hybrid teaching blended learning and telelearning this book is ideally designed for teachers academicians researchers educational administrators and students

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Report of the Investigation of Engineering Education, 1923-1929 Society for the Promotion of Engineering Education (U.S.),1930

A Comparative Study of Engineering Education in the United States and in Europe William Elgin Wickenden,1929

Report of the Investigation of Engineering Education, 1923-1929 American Society for Engineering Education,1930

Training Engineering Students for Modern Technological Advancement Alves, Anabela Carvalho,van Hattum-Janssen, Natascha,2021-12-17

Engineering education leads the preparation of the next generation of engineers This is a difficult task as engineering practices rapidly evolve pressured by the technological advancements promoted by these same engineers Engineering schools are integrated into large and rigid higher education institutions HEI that are not known for their agility Nevertheless engineering educators must have the agility to go beyond HEI boundaries to close the gap between professional practice needs and engineering education Training Engineering Students for Modern Technological Advancement examines the role of engineering teachers in preparing the next generation of engineers and presents perspectives on active learning methods for engineering

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Industry-engineering Education Series , *Journal of the Engineers' Club of St. Louis* ,1923 **Chemical Engineering Education** ,2004

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