

Computing for Human Services

Chief Editor

Shihab Ahmed Hameed

Electrical and Computer Engineering-IIUM University

Editors

Othman Omran Khalifa

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Aisha Hassan Abdullah

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Chapter 9

Development of Final Year Project Portal for Engineering Program

Teddy Surya Gunawan¹, Abdul Mutholib¹, Mira Kartiwi²

¹ECE Department- Faculty of Engineering, ²IS Department- Faculty of ICT
International Islamic University Malaysia, Kuala Lumpur, Malaysia

E-mail: antholib@gmail.com, tsgunawan@iium.edu.my, mira@iium.edu.my

9.1. Introduction

Outcomes based educational (OBE) is a method to design, develop, deliver and document the instruction to obtain the desired goals in education. In other words, OBE means to straighten up the process of education in terms of its purposed outcome and allowing the student to demonstrate what they achieved in their study as a means of evaluation [1]. Student is one of the major stakeholders in OBE system. Their performance in every stage of the educational process, especially in the final stage (final year project) reflects their achievement of the desired learning outcomes [2]. At IIUM and Malaysia in general, the Final Year Project (FYP) is a subject consisting of two long semesters as an integral part of the curricula as mandated by Engineering Accreditation Council (EAC). It can be called as FYP1 and FYP2 with three (3) credit hours each.

Final year project (FYP), especially in engineering, is compulsory to write the progress reports and logs. These activities have the intention to track the student's performance as the achievement of their knowledge during their period of study. FYP also can be considered as a special subject that is intended to provide students an opportunity to actualize their idea by integrating knowledge they achieved in the three years of study with their spirit for the intellectual pursuit. It is expected that students will gain experiences in developing their skill in terms of problem solving, team work, analysis, synthesis, evaluation skills, professional responsibility and technical report writing [1]. A typical project format would require the student to see how some aspect of theory or hardware that they are familiar with can be enhanced or developed into a product or a hardware/software tool [3]. These skills are essential for student who wants to succeed in their professional carrier as an engineer. Increasing number of students as well as accumulating completed FYPs has posed new challenges to FYP coordinators to effectively and efficiently administrating FYPs. In this paper, we aim to develop an online system that specifically will handle FYP as a part of OBE