TEACHING PLAN SYSTEM

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UNIVERSITI TEKNIKAL MALAYSIA MELAKA

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TEACHING PLAN SYSTEM

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This report is submitted in partial fulfillment of the requirements for the Bachelor of Computer Science (Database Management)

FACULTY OF INFORMATION AND COMMUNICATION TEKNOLOGY
UNIVERITY TEKNIKAL MALAYSIA MELAKA
2015

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I hereby declare that this project report entitled

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SUPERVISOR : _____ DATE: _____

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DEDICATION

To my beloved parents and family, Chin Ah Soon and Lim Kooi Hwa, thank you for providing a variety of support in terms of morally and economically, and motivate me all the time during project implementation.

To my supervisor, Puan Hidayah binti Rahmalan, thank you for assistance and encouragement during project implementation.

To my friends who always give me support and lend a hand to me whenever I needed during the project implementation.

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ACKNOWLEDGEMENTS

This Final Year Project is the symbol of the end of my study life in seeking my degree in University Technical Malaysia Melaka. This Final Year Project has been finished on time with the assist of various individuals including my supervisor, my family and my friend. Toward the end of my Final Year Project, I might want to take this chance to say thank you for each one of those individuals. Without them, this Final Year Project would not be done on time.

Firstly, I might want to express the most profound appreciation to my respectful supervisor, Puan Hidayah binti Rahmalan, who has assist me with patience and knowledge. Without her, this report and system product would not have been finished on time.

Other than that, I want to thank my parents, Chin Ah Soon and Lim Kooi Hwa who have constantly upheld and supported me when I experienced problems during the execution of Final Year Project. Without their moral and financial support, I would not have the inspiration to proceed with it.

Lastly, I want to thank my friends too. Thanks for always lend a hand to me when I was stuck inside with problems and thanks for not niggardly on sharing their knowledge.

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ABSTRACT

Teaching Plan is the framework for teaching and learning activities that will done by lecturer on the subject given for a certain period of time. Moreover, Teaching Plan is a document that lecturers need to provide every time they teach. Normally, Teaching Plan consists of outline and learning outcome of the subject, synopsis of the subject, course evaluation, calculation of the student learning time and mapping all the entities that relates to the subject to ensure that the teaching is on the track. The teaching plan is important for the lecturer to determine the level importance of every topic and the lecture will be more focus on certain topic of the subject that will appear on the examination. By having the details and quality teaching plan, it will ensure that the every minute throughout the teaching will definitely return meaningful impact to the students or lecturer and ensure that all the syllabus of the subject will finish within a period of time. This project develops a Teaching Plan System which involve five users which are admin, lecturer, coordinator, Head of Department or Deputy Dean Academic and student. Besides, it also contains six modules which are user authentication, student learning time calculation, course evaluation calculation, generate teaching plan with holiday, export and import excel document from or into the database, and management of coordinator. The advantage of this system is that it follows the OBE standards and it is efficient and practical for lecturers.

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ABSTRAK

Rancangan Pengajaran adalah rangka kerja bagi aktiviti pengajaran dan pembelajaran yang akan dilakukan oleh pensyarah mengenai subjek ini diberikan untuk tempoh masa yang tertentu. Selain itu, Rancangan Pengajaran adalah dokumen yang pensyarah perlu sediakan setiap kali mereka mengajar. Biasanya, Rancangan Pengajaran terdiri daripada rangka hasil pembelajaran, sinopsis, penilaian kursus, pengiraan masa pembelajaran pelajar dan pemetaan semua entiti yang berkaitan dengan perkara ini untuk memastikan bahawa pengajaran berada di landasan yang betul. Rancangan Pengajaran adalah penting bagi pensyarah untuk menentukan tahap kepentingan setiap topik dan kuliah akan menjadi lebih fokus pada topik tertentu subjek yang akan muncul pada peperiksaan. Dengan adanya pelan butiran dan kualiti pengajaran, ia akan memastikan bahawa sepanjang pengajaran pasti akan yang bermakna kepada pelajar atau pensyarah dan memastikan semua sukatan pelajaran subjek akan selesai dalam tempoh masa yang ditetapkan. Projek ini membangunkan Sistem Rancangan Pengajaran yang melibatkan lima pengguna iaitu pentadbir, pensyarah, penyelaras, Ketua Jabatan atau Timbalan Dekan akademik dan pelajar. Selain itu, ia juga mengandungi enam modul iaitu pengesahan pengguna, pembelajaran pelajar pengiraan masa, pengiraan penilaian kursus, menghasilkan rancangan pengajaran dengan percutian, eksport dan import cemerlang dokumen dari atau ke dalam pangkalan data dan pengurusan penyelaras. Kelebihan sistem ini adalah bahawa ia berlandaskan piawaian OBE dan berkesan serta praktikal untuk kegunaan pensyarah.

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sLIST OF ABBREVIATIONS

DCL	**-**	**Data Control Language**
DDA	**-**	**Deputy Dean Academy**
DDL	**-**	**Data Definition Language**
ERD	**-**	**Entity Relationship Diagram**
FK	**-**	**Foreign Key**
HOD	**-**	**Head of department**
LO	**-**	**Learning Outcome**
PK	**-**	**Primary Key**
PO	**-**	**Program Outcome**
SQL	**-**	**Structured Query Language**
TPS	**-**	**Teaching Plan System**

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CHAPTER I

INTRODUCTION

1.1 Project Background

Education is the form of learning in which the knowledge are transferred from one people to another people or from one generation to another generation. The main objectives of education are to produce the students that have good ideological behavioral pattern, and well mental fitness. To produce a quality education, there must be a proper planning of every subject. This planning is called Teaching Plan. In Malaysia, the Teaching Plan should follow the OBE standard. According to Mohayidin, Mohd Ghazali (2008), Outcome-based education is an education theory that ensures that each part of the education system has archive the program outcome. Teaching Plan is the plan that outline the learning outcome of the subject, synopsis of that subject, the courses evaluation, calculation of the student learning time and mapping all the entity that related to that subject to ensure that the teaching is on the track. Furthermore, teaching plan is a framework for teaching and learning activities that will prepared by lecturer on the subject given for certain time period.

According to Burden& Byrd (1999) on the article of Educator on Education state that planning before the teaching refers to the decision that took to manage, implement and evaluate the teaching. Besides, Cruickshank (1995) also state that the

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decision about how to select and organize learning experience will maximize the performance and satisfaction among teacher as well as students. Other than that, Esah Sulaiman(2004) state that teaching plan is the decision that made by teacher about the things to be taught in order to gain the understanding for the students.

The teaching plan is important for the lecturer to determine the level importance of every topic and the lecture will be more focus on certain topic of the subject that will appear on the examination. The lecturer also can be well prepare all the material about the topic before every week of the class. This will ensure that the knowledge will be well delivered to the students. By having the details and quality teaching plan, it will ensure that the every minute throughout the teaching will definitely return meaningful impact to the students or lecturer and ensure that all the syllabus of the subject will finish within one semester.

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1.2 Problem Statement

There are few problem statements in this system:

i. Inconsistency of teaching plan among the lecturers

For teaching in university, it involves lecturers and coordinator. Sometimes, the lecturer is the coordinator. For any changes that made by the coordinator need to report to the Deputy Dean Academic (Henceforth, DDA). But currently the change was not recorded. In addition, not all lecture teach the same one or two subjects every semester for the rest of their life. Most had to teach other subject due to several reason. However, changing the person to teach will cause different style of teaching and the changes should be recorded. But, without a system, the change that happen in teaching plan over several semesters was not recorded properly. In addition, changes should be approved by Head of Department or Deputy Dean Academic. This may help to control changes for the teaching plan document. In addition, mapping between program outcome, learning outcome, taxonomy, and soft skill may be difference and unappropriated, as it involve a lot of role such as Deputy Dean (Academic), Head of Department, coordinator, lecturers, and student.

ii. Inefficiency in accessing the data

In current practice, each faculty had different template of teaching plan. This shows no standard among all faculties, but having standard is important because it shows we are united.

iii. Human error on calculation

Human tend to make mistake. In mapping the teaching plan, lecturer might miscalculate on certain element such as the calculation of student learning time or the marks of subject assessment. Student Learning Time is approximate allocation time that lecturers think for student learning time.

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1.3 Objectives

i. **To ease the job task of each role which are Deputy Dean (Academic), Head of department and lecturers in fulfilling the OBE standards in providing the teaching plan system.**

Every role has its own job task. By using this system, the job task has been put in ease.

ii. **To provide consistency in generating the teaching plan document.**

All faculties having standard of producing teaching plan is important because it show the faculty are united.

iii. **To simplify the lecturers task in providing the students assessment.**

Teaching plan system will provide a computerized calculation part that calculates all the student assessment and student learning time to reduce the human error in calculation.

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