

Universiti Teknologi MARA

**COMPUTER SCIENCES STUDENT COMPETENCY SYSTEM
(CSSCS) FOR INFORMATION TECHNOLOGY (CS220)
STUDENTS**

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ABSTRACT

This research project is about developing an information system that can evaluate student's skills which can close the gap between industrial demands university supplies by mapping the computer sciences student's skills needed by industry and supply provided by the university with the job opportunities. By using the standards that UiTM already have and then comparing it with the market needs, the project will come out with the best competencies on how to measure the student's performance in industrial training. Generally, the percentage of unemployment of UiTM graduates was increasing especially Information Technology students. Most of the students have difficulties in getting job for about six month from their graduation day because they cannot find the job that meet their strength and ability. This research will be focused on developing the Computer Sciences Student Competency System (CSSCS) for Information Technology (CS220) which may help the supervisor to evaluate the technical skill from student for industrial training and the system also focuses on identifying the skills needed in industry and the criteria that the industry need from candidates in Science Computer field for particular job. By applying Rapid Application Development (RAD) as a method to conduct the system, it may ease the development of the system. On top of that, by having the major idea and concept of evaluation skills system, it is applicable to the Computer Sciences Student Competency System (CSSCS) which can be applied in others faculty or other university once this project success. The adapted class diagram will then contributes and assists the developers to build up a system after requiring that documentation of the design pattern. As the result, the Computer Sciences Student Competency System (CSSCS) will assist the supervisor from industry and also university to manage the data of student skill based on their requirements. This research will succeed phase by phase in order to achieve the aim of the project. Thus, the final outcome is, this system can close the gap and students may know what job that is suitable for their skills. Hopefully the system can be implement and apply at faculty and also others faculty in Uitm.

TABLE OF CONTENT

APPROVAL.....	i
DECLARATION.....	ii
ACKNOWLEDGEMENT.....	iii
ABSTRACT.....	iv

CHAPTER 1: INTRODUCTION

1.0 Introduction.....	1
1.1 General Background.....	2
1.2 Problem Statement.....	3
1.3 Project Aim.....	5
1.4 Research Questions.....	5
1.5 Research Objectives.....	5
1.6 Project Scope.....	6-7
1.7 Stakeholders.....	7-8
1.8 Significance of Project.....	8

CHAPTER 2: LITERATURE REVIEW

2.0 Introduction.....	10
2.1 Definition of Competency.....	11
2.2 History of Competency.....	13
2.3 Competency Model.....	14
2.3.1 The stages.....	14
2.4 IT Program Management Competency Model General Competencies.....	15
2.5 IT Program Management Competency Model Technical Competencies.....	17
2.6 Information Technology Competency Model.....	18
2.7 Competency Mapping.....	19
2.7.1 Objective of Competency Mapping.....	19
2.7.2 Steps of Competency Mapping.....	20

1.0 Introduction

This chapter will explain the details about the overview of the project including the information regarding to the project subject matter. This chapter highlights on the project background, problem statement, project aim, objectives, scope and significant of the system.

1.1 General Background

Based on the previous record from the faculty, there are many graduates who unemployed. Unemployment graduates are a student who does not get any job offer after six month of their graduation. Six month was the basic period of students to find job and wait for the offer. If after that period students do not get any, then the students are become unemployed. This problem can be shown by the statistic of unemployed graduates in Faculty of Science, Computer and Mathematics (FSKM).

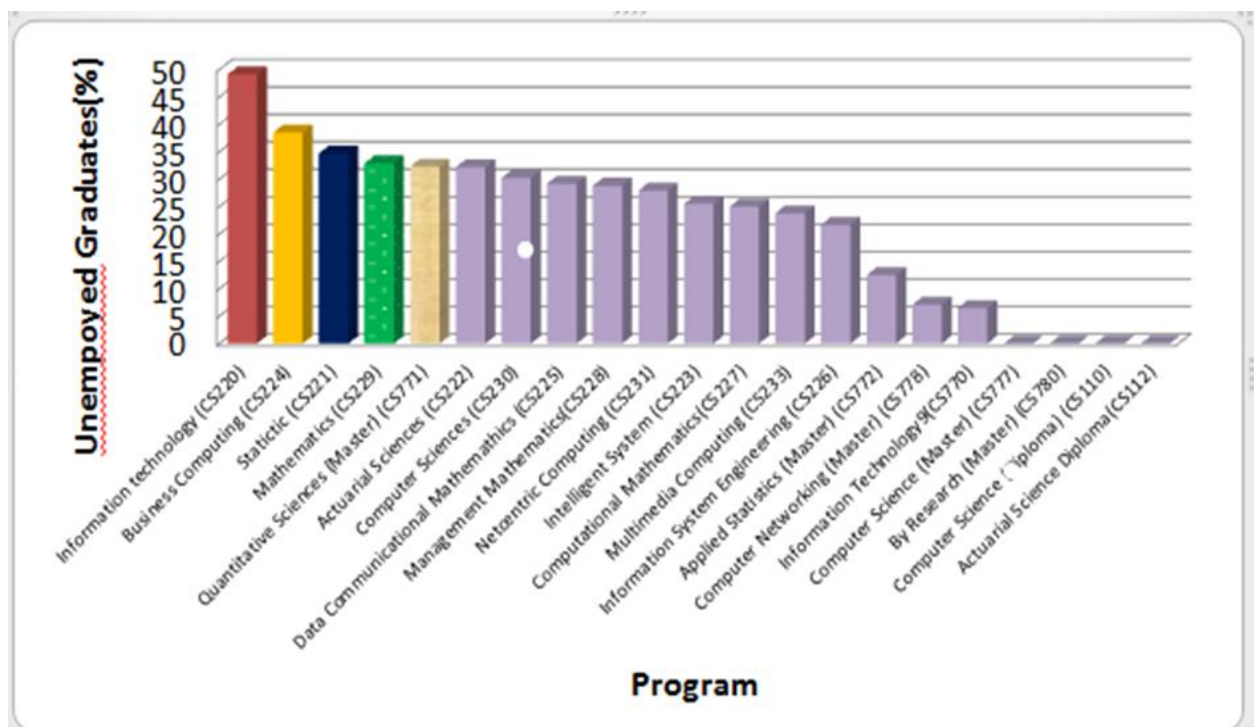


Figure 1.0: Status of Unemployed Graduates FSKM (UiTM Shah Alam) 2011

The graph above showed status of unemployed Graduates in Faculty of Science Computer and Mathematics (FSKM) in 2011. It shows many graduates in Computer Science program have difficulties in getting job for about six month from their graduation day. For examples students from Science Information Technology program recorded the highest percentage of unemployment. It follows with other course like Business Computing, Statistic, Mathematics and etc.

Most of the university graduates especially who are taking computer science courses, find it difficult to get a job that are related to their course. These graduates do not meet the industrial standard that had been set up by the government sector thus leads to the difficulties in getting a job. Even if these