

**DESIGN WAP-BASED CO-CURRICULUM COURSE  
REGISTRATION SYSTEM FOR PUSAT KOKURIKULUM, UUM**

**HUSSAM-EDDIN ALFITOURI ELGATAIT**

**UNIVERSITI UTARA MALAYSIA  
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**DESIGN WAP-BASED CO-CURRICULUM COURSE  
REGISTRATION SYSTEM FOR PUSAT KOKURIKULUM, UUM**

A thesis submitted to the Graduate School in partial  
fulfillment of the requirements for the degree  
Master of Science (Information Technology)  
Universiti Utara Malaysia

By

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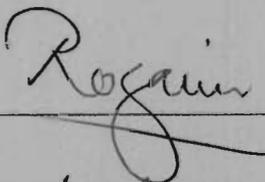
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## ABSTRACT

The mobile devices & the emergence of wireless technology are rapidly increasing. This study identified and designed a WAP-based Co-curriculum Course Registration System (WCCRS) using WAPtor, MySQL and ASP. The WCCRS is a real-time application system capable of hassle free of co-curriculum course registration system. It provides a convenient graphics user interface (GUI) for both students and Pusat Kork administrators. It allows students to make self-registration for their selected co-curriculum, view timetable. It also allows administrator to add/ delete student account, add/drop course, offer course and add course catalog. All of the services will be possible anywhere at any time.

A requirements model called—"WCCRS" was built based on the identified functionalities and further tested by potential users to evaluate acceptance of the proposed requirements model. The evaluation was performed based on questionnaire. The overall results showed that majority of respondents satisfied with WCCRS. Nevertheless, for the future enhancement, recommendations from participants have been taken into considerations.

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## **LIST OF ABBREVIATIONS**

ASP	Active Server Page
CMS	Course Management System
DBMS	Database Management System
DCOM	Distributed Component Object Model
GPS	Global Positioning System
GSM	Global System for Mobile Communication
HTTP	HyperText Terminal Protocol
HTML	HyperText Markup Language
LAN	Local Area Network
LCD	Liquid Crystal Display
IT	Information Technology
ICT	Information and Communication Technology
IIS	Internet Information Service
MIME	Multipurpose Internet Mail Extension
MME	Microsoft Mobile Emulator
OOSAD	Object-oriented System Analysis and Design
PC	Personal Computer
Pusat Ko-k	Pusat Kokurikulum
SDLC	System Development Life Cycle
SIM	Subscriber Identity Module
SMS	Short Messaging Service
SQL	Structured Query Language

TCP/IP	Transmission Control Protocol/ Internet Protocol
UUM	University Utara Malaysia
UML	Unified Modeling Language
WAE	Wireless Application Environment
WAP	Wireless Application Protocol
WDP	Wireless Datagram Protocol
WSP	Wireless Session Protocol
WTP	Wireless Transaction Protocol
WTLS	Wireless Transport Layer Security
WML	Wireless Markup Language
WMLS	Wireless Markup Language Script
WWW	World Wide Web
WCCRS	WAP-based Co-curriculum Course Registration System

## **CHAPTER 1**

### **INTRODUCTION**

This chapter will consist of a background of the study, overview of the system, research objectives, research scope, significant and research outcome.

#### **1.1 Background**

The Co-curriculum program was introduced in 1984 when the university was still at its temporary campus in Bandar Darul Aman, Jitra. The program was initially placed under the administration of the School of Foundation Studies and now it is managed by the Co-curriculum Unit. The University's Co-curriculum Unit was established in mid 1994, when it was an independent unit which was placed directly under the supervision of the Co-curriculum Board of Directors, chaired by the Vice Chancellor himself ([portal.uum.edu.my](http://portal.uum.edu.my)).

The credit hours awarded for student participation in Co-curriculum programs have been set at four credit hours since 1996 semester. These credit hours are to be obtained over a period of four semesters with the exception of the Reserve Officers Training Unit and University's Police Volunteer Corps activities, for which students will be awarded six credit hours to be taken within a period of six semesters. Students are given the freedom of choice where their co-curriculum program is

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the thesis is for  
internal user  
only

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