

**THE APPLICATION OF DUBLIN CORE METADATA STANDARD IN UiTM  
LIBRARIES FOR KEDAH, SHAH ALAM, AND KELANTAN CAMPUS:  
THE BENEFITS**

**BY :**

**FAUZIAH ABDUL WAHID  
NORDIANA MOHD NORDIN  
ASMADI MOHAMMED GHAZALI  
ROSLI HASSAN**

**APRIL 2006**



# UNIVERSITI TEKNOLOGI MARA

Institut Penyelidikan, Pembangunan dan Pengkomersilan (IRDC)

*Institute of Research, Development and Commercialisation (IRDC)*

*(Sebelum ini dikenali sebagai Biro Penyelidikan dan Perundingan)*

40450 Shah Alam, Malaysia

Website : [http // : www.uitm.edu.my/brc](http://www.uitm.edu.my/brc)

Surat Kami : 600-IRDC/SSP 5/3/1390  
Tarikh : 21 Disember 2004

Pengarah  
UiTM Cawangan Kedah  
Kampus Sungai Petani  
Peti Surat 187  
08400 Merbok  
Kedah

Tuan/ Puan

## PERLANTIKAN BAGI MENJALANKAN PENYELIDIKAN

Merujuk kepada perkara di atas, bersama-sama ini dimajukan salinan surat kelulusan menjalankan penyelidikan serta ringkasan kos perbelanjaan bagi penyelidikan yang dijalankan oleh pensyarah dari UiTM Cawangan Kedah ;

**Tajuk Projek** : The Application Of Dublin Core Metadata Standard in UiTM Libraries for Kedah, Shah Alam and Kelantan Campus: The Benefits'

**Ketua Projek** : Puan Fauziah Abdul Wahid

**Kos Yang diluluskan** : RM 14,367.00

**Jenis Geran** : Geran Dalamann

Sekian, terima kasih.

Yang benar ,

**PROF MADYA DR ROSMIMAH MOHD ROSLIN**  
Ketua Penyelidikan (Sains Sosial dan Pengurusan)

- s.k:
1. Puan Siti Salmah Abu Bakar  
Koordinator URDC  
UiTM Cawangan Kedah
  3. Puan Fauziah Abdul Wahid  
Ketua Projek  
UiTM Cawangan Kedah
  3. Encik Mohd Halil Marsuki  
Penolong Akauntan  
Unit Kewangan Zon 17

*(Sila hantarkan geran penyelidikan bagi projek ini ke Kampus Cawangan)*

**RESEARCH, DEVELOPMENT AND COMMERCIALISATION DIVISION**

Danselor (Penyelidikan) : 03-55442094/5  
kan (Sains Sosial dan Pengurusan) : 03-55442097  
kan (Sains dan Teknologi) : 03-55442091  
 : 03-55442760  
gan (Kewangan) : 03-55442090

Ketua Perundingan : 03-55442100  
Ketua Pengkomersilan : 03-55442750  
Ketua Harta Intelek : 03-55442753  
Penolong Pendaftar : 03-55442092  
Pegawai Sains : 03-55442098

Pegawai Eksekutif : 03-55442057  
Pejabat Am : 03-55442093/2101  
Fax : 03-55442096  
Unit Kewangan Zon 17 : 03-55443440  
Penolong Akauntan : 03-55442099



## TABLE OF CONTENTS

<b>CONTENT</b>	<b>PAGE</b>
Table of Contents	i
Abstract	iv
List of Abbreviations	v
List of Figures	vi
List of Tables	viii
List of Appendices	ix
<b>1.0 Introduction</b>	
1.1 Dublin Core Metadata Initiative (DCMI)	
1.1.1 Organisational background	1
1.1.2 Dublin Core Working Group	2
1.1.3 Mission and scope	3
1.1.4 DCMI Community	4
1.1.5 Logo	5
1.1.6 Board of trustees	5
1.2 Background of the Study	6
1.3 Objective of the Study	7
1.4 Definition	
1.4.1 Metadata	7
1.4.2 Dublin Core Metadata Standard	9
1.5 Limitation of the Study	10
1.6 Problem Statement	11
1.7 Methodology	13

<b>2.0</b>	<b>Literature review</b>	
2.1	Introduction	14
2.2	Concept of Metadata	
2.2.1	Historical background	15
2.2.2	Definition of metadata	16
2.2.3	Types of metadata	18
2.2.4	Purpose of creating metadata	20
2.2.5	Categories of metadata	22
2.2.6	Basic requirements in creating metadata	25
2.2.7	Methods of creating metadata	27
2.2.8	Metadata standards and schemes	34
2.3	Metadata and Dublin Core	
2.3.1	Dublin Core Libraries Working Group	37
2.3.2	Dublin Core Metadata Standard	38
2.3.3	Characteristics	39
2.3.4	Basic principles of descriptive elements	41
2.3.5	The core elements	42
2.3.6	Qualifiers	43
2.3.7	Syntax issues	44
2.3.8	Extending Dublin Core with application profiles	47
2.4	Issues Related to Metadata	
2.4.1	Application and use of metadata in information retrieval	48
2.4.2	Importance of knowledge and application of metadata	50
2.5	Worldwide application of Dublin Core Metadata Standard	55
<b>3.0</b>	<b>Questionnaire Analysis</b>	
3.1	Introduction	57
3.2	Questionnaires Analysis Purposes	58

## **Abstract**

Metadata can be defined, as 'data-about-data' where it describes the properties or characteristics of other data. It is considered as the latest concept in enhancing the capability of information storage and retrieval. In relation to this, the Dublin Core Working Groups has been formed and they have created Dublin Core Metadata Standard that consists of a set of 15 core optional elements for the description of document. DCMI Working groups are organised around specific problem domains. Working groups are formed and dissolved as dictated by the work at hand and the availability of expertise to accomplish such work. Dublin Core Metadata Initiative (DCMI) is an organisation dedicated to promoting the widespread adoption of interoperable metadata standards and developing specialised metadata vocabularies for describing resources that enable more intelligent information discovery systems. This research was conducted as an attempt to study the benefits of applying Dublin Core Metadata Standard in UiTM libraries for Kedah, Shah Alam, and Kelantan Campus. The main objective of this research is to clarify in depth about the Dublin Core Metadata Standard and the possibility of implementing this standard in generic organization of information for other types of printed and non-printed materials in this world. The result of the study shows that majority of respondents agreed that the application Dublin Core Metadata Standard would benefit generic organization of information in UiTM libraries. This may due to the fact that Dublin Core Metadata Standard is simple resource description and it is also a flexible standard that can interoperate with other system such as the library system.

**Keywords: Dublin Core (DC), Dublin Core Metadata Initiative (DCMI), Hypertext Markup Language (HTML), Machine-Readable Catalogue (MARC), Metadata, Resource Description Framework (RDF), World Wide Web (WWW), Extensible Markup Language (XML).**