



Guideline on Electronic Data Management

IIUM ICT GUIDELINES

PREPARED FOR:

International Islamic University Malaysia

PREPARED BY:

Information Technology Division

IIUM ICT Guidelines

Document Change Log

Release Version	Date	Pages Affected	Remarks/Change Reference
Version 1.0	18/01/2023	-	Endorsement from ITD Management

IIUM ICT Guidelines

Responsibility and Activity Log

Requestor	Description	Submission Date	Approval Date
Nurmaliza Jumaat	Change of Electronic Data Management Policy to Guideline on Electronic Data Management	18/01/2023	18/01/2023

IIUM ICT Guidelines



1. OBJECTIVE

This guideline shall serve as a reference for the management of IIUM data which includes the responsibilities of those involved in electronic data management activities in the University, and how electronic data shall be treated and managed.

2. TERMS AND DEFINITIONS

Term	Definition
IIUM	The International Islamic University Malaysia, otherwise known as the “University”.
ITD	Information Technology Division
CIO	Chief Information Officer
Data Management Working Committee	A working committee that is responsible for the University data governance. The working committee is a sub-committee of the Information and Communication Sub Committee.
Information and Communication Sub Committee	A working committee that is responsible to determine web strategies, KM University-wide implementation, and formulation of university data management policy, procedure, and standards.
Data Owner	Centre of Studies or Administrative Offices that owns and manages the assigned institutional data. Data Owner is also responsible for processes that relate to the data.
Database Administrator	One or more IT personnel assigned to manage University centralized databases.
Data Administrator	One or more IT personnel assigned by ITD to manage data and application systems of the data owners.
Data Users	University individuals who need and use University data as part of their assigned duties or in fulfillment of their roles in the University community.
Data	Pieces of information on the University which resides in the University Data Centre and other authorized electronic data repositories of the University.
Data Element	Any unit of data defined for processing, for example, staff number, name, address and student matric number.

IIUM ICT Guidelines

Data Centre	Centrally managed facility that houses and maintains back-end IT systems, data stores, servers, and databases.
Data Repository	A set-up within the overall IT structure which keeps various kinds of university electronic data.
Application system	A computer program that is internally developed or procured and is designed to carry out specific tasks. It is typically used by data owners for work purposes.

3. GUIDELINES

3.1. Data Management Working Committee

- 3.1.1 The Director of OSIC (Office of Strategy & Institutional Change) shall chair the Data Management Working.
- 3.1.2 The Data Management Working Committee shall comprised of data owners, data users, database administrators, data administrators, and other assigned University officers relevant to serving the function of the committee.
- 3.1.3 The secretariat of the Data Management Working Committee shall be an assigned officer(s) from the Office for Strategy & Institutional Change.
- 3.1.4 There shall be a Data Management Working Committee which performs the following functions:
 - i. Review, formulate and oversee University data management policy, procedure, and standards
 - ii. Review, formulate and oversee University data quality management process
 - iii. Handle University data sensitivity matters which include validity, confidentiality, and security
 - iv. Manage user awareness and training on data management

3.2 Data Owners

IIUM ICT Guidelines

Data Owners shall perform the following roles and responsibilities:

- 3.2.1 Responsible for the data quality, confidentiality, integrity, and availability of data.
- 3.2.2 Promote and enhance the value of data for university-wide purposes and facilitate data sharing and integration
- 3.2.3 Determine the access levels of the data owned
- 3.2.4 Determine and authorize the access rights and privileges of the data owned.
- 3.2.5 Manage the operational matters of the assigned University data.
- 3.2.6 Responsible for ensuring that application systems developed shall use data according to the IIUM Standard Data Dictionary.
- 3.2.7 Responsible for data analysis of the assigned University data.
- 3.2.8 Provide management information to support University decision-making.
- 3.2.9 Fulfill external reporting requirements related to the assigned University data.
- 3.2.10 Resolve queries on the assigned University data.

3.3 Database Administrators

Database administrators shall perform the following roles and responsibilities:

- 3.3.1 Manage University centralized databases towards data security, confidentiality, integrity, and availability.
- 3.3.2 Maintain and manage the IIUM Standard Data Dictionary.
- 3.3.3 Develop and implement IIUM Standard Data Dictionary policy, procedures, and guidelines.
- 3.3.4 Develop and implement data retention and archiving policies, procedures, and guidelines.

3.4 Data Administrators

IIUM ICT Guidelines

Data Administrators shall perform the following roles and responsibilities:

- 3.4.1 Manage the repositories where the assigned University data are stored.
- 3.4.2 Manage the applications and reporting systems that relate to the assigned University data.
- 3.4.3 Enhance his/her knowledge on the business of the data which he/she is managing.

3.5 Data Users

Data Users shall perform the following roles and responsibilities which include:

- 3.5.1 Access and use data only in the conduct of university business.
- 3.5.2 Respect the confidentiality and privacy of individuals whose records they may access.
- 3.5.3 Comply with the ethical, commercial, legal, security and other restrictions determined by the University that relates to the data in which they have access to.

3.6 Data

- 3.6.1 Every data source and dataset shall have a designated Data Owner.
- 3.6.2 Data shall be stored in an official University repository.
- 3.6.3 Data shall be defined consistently across the University.
- 3.6.4 Data element names, formats and codes shall be consistent across all repositories and application systems that use the data; and shall be consistent with the IIUM Standard Data Dictionary. In the absence of standard in the University Data Dictionary, the MAMPU Data Dictionary Sektor Awam shall be referred to.
- 3.6.5 Every data element shall be created by one data owner only and there shall be no subsequent creation of the same data element.
- 3.6.6 The structure of data shall be controlled to ensure minimal implications on business and systems.

IIUM ICT Guidelines

- 3.6.7 Data shall be recorded in an auditable and traceable manner and comply with any agreed change control process.
- 3.6.8 Data shall be properly backed-up and restored according to the University data back-up and restore procedure.
- 3.6.9 A data element shall be considered as university data if it is relevant to planning, managing, operating, or auditing a major administrative function of the University.
- 3.6.10 University data shall be subjected to data audit by the relevant University authority.
- 3.6.11 The data shall be stored in the University repository and accessible through the following application systems:

No	Category	Information	Application system
1	Employee data	Staff personal record, service record, appraisal, benefits, and payroll	IIUM Human Resource Information System (HURIS)
2	Financial data	Investment records, financial statements & Reports, Capital Construction Records	IIUM Financial Information System (IFIS)
3	Research data	Research funded by university grants & research funded by outside bodies -Research reports and research data -Patent, trademark, and other intellectual property records	Research Management System V2 (RMSV2)
4	Student data	Undergraduate and postgraduate student records. Student exam records and graduation records, Theses and dissertations records.	Student Information System (SIS)
5	Academic data	Records documenting the teaching and learning process, e.g. course outlines, curricula, syllabi, reading lists and other courseware objects. – Prospectus - Accreditation records	ECUREv2 system, OBEM system
6	Alumni data	Alumni Chapters, Newsletter, Publicity, Career development	IIUM Alumni Portal, Student Information System (SIS)

IIUM ICT Guidelines

7	Publication data	Books, Book chapters, Journal articles, Conference papers - Newsletter	IREP, Student repository, IIUM Journal system
8	Electronic filing	HR Related Records and documents Administrative Records and documents	IIUM Document Management system (IDMS), Seascape
9	Online learning records	Learning materials, student assignments	Italemc, italeem_archive
10	Legal records	MOU/MOA, Litigation, Debt Recovery, Disciplinary	IIUM Legal Monitoring System (ILMOS)
11	General Administrative Records	Includes minutes of meetings, reports, programmes of key events, photographs, Videos, Sound recordings, News clippings, Policies and Procedures, Manuals, Speeches and Presentations, Publications and Project file	Office Desktops, Personal Laptops, External Storage equipment.
12	Physical Development Records	Records include architectural blueprints, aerial photographs, planning drawings, changes to plans, and other graphic representations related to buildings, systems, and land. -Project construction records.	I-space – is on space management/facilities only. Upgrading Work System – for renovation and upgrading records.
13	Institutional records	All types of university records fall into a range of categories including, but not limited to: administrative records, alumni records, environmental health and safety records, faculty records, financial/budget records, legal and regulatory compliance records, personnel records, operations records (facilities management), student academic records, student life records, university research data and compliance, and university statistics.	University databases and systems, IIUM Portal, Office Desktops, Personal Laptops, External Storage equipment

IIUM ICT Guidelines

4. IMPLEMENTATION AND NON-COMPLIANCE

4.1 The CIO holds the responsibility for the implementation of this guideline and shall take necessary actions in the event of a violation of this guideline.

4.2 This guideline is applicable to the University community and any infringement of the guidelines may subject to disciplinary actions and any other actions deems necessary.

5. ENTITIES AFFECTED BY THIS GUIDELINE

This guideline shall apply to all staff.

6. MAINTENANCE AND MONITORING OF GUIDELINE

The Data Management Working Committee is responsible for the formulation and maintenance of this guideline.

7. RELATED POLICIES/STANDARDS/PROCEDURES/GUIDELINES

This guideline shall be read together with the following documents or any documents which recently approved:

7.1 IIUM ICT (Information and Communication Technology) Regulations

7.2 IIUM ICT Security Policy

7.3 IIUM Records Management Policy

7.4 Procedure on Data Backup

7.5 MAMPU Data Dictionary Sektor Awam (DDSA).

7.6 Personal Data Protection Act 2010(PDPA).

7.7 IIUM Standard Data Dictionary. (iPerform system)