

BS ISO 11620:2014 (INFORMATION AND DOCUMENTATION — LIBRARY PERFORMANCE INDICATORS)

PERPUSTAKAAN UTM

BS ISO 11620:2014 – UNIT REPOSITORI & DOKUMEN DIGITAL, SEKSYEN KOLEKSI KHAS & REPOSITORI, PERPUSTAKAAN UTM : 2021 - 2023

B1: Resources, Access and Infrastructure					
Performance Indicator	PI Number	Definition of the indicator	Method		Result
B.1.1 Collection					
Percentage of the Owner Institution's Publications in the Institutional Repository	B.1.1.5	The percentage of the total number of the owner institution's academic publications, such as journal articles, eBooks, e-prints, technical reports, theses and dissertations, data sets, and teaching and learning materials, that are stored in the institution's open access repository. Student works are not included. The indicator could include masters' theses, or be used separately for these. The indicator can only be used in institutions that keep records of published academic publications in the institution.	It is desirable to calculate the indicator separately for records and open access full text academic documents. 1) To assess the percentage of the owner institution's academic publications available as records in the institutional repository: — establish the total number of academic publications that have been published (journal articles, eBooks, e-prints, technical reports, theses and dissertations, data sets, and teaching and learning materials) in the institution during the last three years; — establish the number of these publications that are recorded in the institutional repository. The Percentage of the Owner Institution's Academic Publications in the Institutional Repository (records only) is $A/B \times 100$ where	<i>Notes:</i> - <i>List of RU publication from BPMP - Sec C (a, d, e and f).</i> <i>Includes PhD and master thesis and published by UTM only.</i> - <i>Past 3 years except for the current year.</i> - <i>Report yearly.</i>	Reference: A UTM-IR: 2021 – 4,807 2022 – 4,804 2023 – 4,808 Total A : 14,417 B Total RU records (Sec C - a,d,e,f) 2021 – 5,472 2022 – 5,370 2023 – 3,721 Total : 14,563 Total thesis records (Master & PhD) : 2021 – 2,663 2022 – 3,229 2023 – 1,976 Total : 7,868 Total B : 22,431

			A is the number of records of the institution's academic publications in the institutional open access repository; B is the number of academic publications published by the institution or the institution's scientific staff during the past three years. Round off to nearest integer.		Notes: Data source from Buku Konvokesyen UTM ke 64 (2021), 65, 66 (2022) and 67 (2023) $A / B \times 100$ $14,417 / 22,431 \times 100$ = 64.3% @ 64%
			2) To assess the percentage of the owner institution's academic publications freely available as full text academic documents in the institutional repository: — establish the total number of academic publications that have been published (journal articles, e-prints, technical reports, theses and dissertations, data sets, and teaching and learning materials) in the institution during the last three years; — establish the number of these publications for which the full text is available for all users in the institutional open access repository.	Notes: <i>Mengikut skop bahan deposit dan hanya dimuat naik teks penuh PDF.</i> <i>Tidak termasuk data tesis kerana kandungan sehingga bab 1.</i>	Report not available. Data collection for 2022 – 2024 are in progress. Refer Nota.

			The Percentage of the Owner Institution's Academic Publications in the Institutional Repository is $A/B \times 100$ where A is the number of the institution's academic publications stored in the institutional open access repository; B is the number of academic publications published by the institution or the institution's scientific staff during the past three years. Round off to the nearest integer.		
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NOTA :-

Faktor penyumbang kepada ketiadaan penghasilan laporan bagi perkara 2 : B1.1.5 - *Percentage of the Owner Institution's Publications in the Institutional Repository*, yang melibatkan penjanaan data bagi menentukan nilai 'A' adalah seperti keterangan berikut :

- i. Sistem UTM-IR hanya menjana data secara kumulatif dan tidak mengikut tahun apabila rekod bahan diwujudkan di dalam sistem berdasarkan tahun proses kerja berkenaan dilaksanakan. Penjanaan ini merujuk kepada keperluan untuk laporan ini sahaja.
- ii. Nilai A dikira berdasarkan formula berikut : Jumlah kumulatif terkini – Jumlah kumulatif yang dijana pada setiap 1 haribulan Januari tahun sebelum.
- iii. Pelaporan terakhir bagi perkara 2 : B1.1.5 adalah pada 2019, dengan kiraan kelompok 3 tahun sekali mulai 2017-2019.
- iv. Pelaporan untuk tahun 2020-2021 **TIDAK** dihasilkan, menyebabkan penjanaan data bagi dua tahun berkenaan terhenti. Maka pengiraan bagi perkara (i) tidak dapat dilaksanakan untuk mendapatkan data bagi tahun 2020, 2021 dan 2022 kerana penjanaan data semasa adalah secara kumulatif dari awal sistem UTM-IR digunakan.

Pengiraan data hanya boleh dilaksanakan semula pada awal Januari 2023 untuk mendapatkan Jumlah Kumulatif bagi *number of the institution's academic publications stored in the institutional open access repository* (nilai A).

Untuk menyediakan kembali pelaporan bagi perkara 2 : B1.1.5 - *Percentage of the Owner Institution's Publications in the Institutional Repository*, laporan hanya boleh dilaksanakan pada awal tahun 2024, iaitu apabila kedua-dua data kumulatif ini dapat dijana dengan jumlah yang tepat. Penjanaan data pada awal tahun 2024 adalah untuk mendapatkan data bagi tahun 2023 sahaja.

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B2: Use					
Performance Indicator	PI Number	Definition of the indicator	Method		Result
B.2.1 Collection					
Number of Downloads per Document Digitized	B.2.1.5	The number of downloads per document digitized out of the library's collection during a specified period. For the purpose of this indicator, only those digitized documents that are available for public access are included.	Establish the number of documents digitized out of the library's collection and that are available for public access. Count the number of downloads from these documents during a specified time period, normally a year. The Number of Downloads per Document Digitized is A/B where A is the number of downloads from documents digitized out of the library's collection during a specified time period; B is the total number of documents digitized out of the library's collection. Round off to the nearest integer. The indicator can be presented by types of materials.	Notes: - Include UTM-IR only - Data reporting will be used from last year data. (Item Type: Article, book section, monograph, conference, book, theses, teaching resource; type : pdf)	Jan – Dec 2021 A = 2,090,553 All library's digitized collection B = 64,771 A/B 2,090,553 / 64,771 = 32.27 @ 32 The indicator is a positive integer with no top limit. A high number of downloads will be regarded as good. It shows that the library has digitized documents that are relevant for its population.

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B2: Use					
Performance Indicator	PI Number	Definition of the indicator	Method		Result
B.2.1 Collection					
Number of Downloads per Document Digitized	B.2.1.5	The number of downloads per document digitized out of the library's collection during a specified period. For the purpose of this indicator, only those digitized documents that are available for public access are included.	Establish the number of documents digitized out of the library's collection and that are available for public access. Count the number of downloads from these documents during a specified time period, normally a year. The Number of Downloads per Document Digitized is A/B where A is the number of downloads from documents digitized out of the library's collection during a specified time period; B is the total number of documents digitized out of the library's collection. Round off to the nearest integer. The indicator can be presented by types of materials.	Notes: - Include UTM-IR only - Data reporting will be used from last year data. (Item Type: Article, book section, monograph, conference, book, theses, teaching resource; type : pdf)	Jan – Dec 2022 A = 1,870,375 All library's digitized collection B = 69,575 A/B 1,870,375 / 69,575 = 26.9 @ 27 The indicator is a positive integer with no top limit. A high number of downloads will be regarded as good. It shows that the library has digitized documents that are relevant for its population.

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B2: Use					
Performance Indicator	PI Number	Definition of the indicator	Method		Result
B.2.1 Collection					
Number of Downloads per Document Digitized	B.2.1.5	The number of downloads per document digitized out of the library’s collection during a specified period. For the purpose of this indicator, only those digitized documents that are available for public access are included.	Establish the number of documents digitized out of the library’s collection and that are available for public access. Count the number of downloads from these documents during a specified time period, normally a year. The Number of Downloads per Document Digitized is A/B where A is the number of downloads from documents digitized out of the library’s collection during a specified time period; B is the total number of documents digitized out of the library’s collection. Round off to the nearest integer. The indicator can be presented by types of materials.	<i>Notes:</i> - Include UTM-IR only - Data reporting will be used from last year data. (Item Type: Article, book section, monograph, conference, book, theses, teaching resource; type : pdf)	Jan – Dec 2023 A = 1,187,489 All library’s digitized collection B = 74,383 A/B 1,187,489/ 74,383 = 15.96 @ 16 The indicator is a positive integer with no top limit. A high number of downloads will be regarded as good. It shows that the library has digitized documents that are relevant for its population.

Ulasan Pencapaian B.2.1.5 : Number of Downloads per Document Digitized

Secara keseluruhan laporan pencapaian bagi tempoh tiga (3) tahun mulai 2021 – 2023 menunjukkan penurunan berterusan bagi *B.2.1.5 : Number of Downloads per Document Digitized*.

Penjanaan data pencapaian melalui sistem UTM LIBEIS menunjukkan kecenderungan penurunan aktiviti *download* mulai tahun 2021. Justeru itu, faktor ini memberi kesan langsung kepada pencapaian pengiraan data bagi *B.2.1.5 : Number of Downloads per Document Digitized* yang secara berterusan mengalami penurunan antara 5 hingga 11 mata secara berturut. Rujuk Jadual 1.

Secara keseluruhan *Institutional Repository* di Malaysia juga menunjukkan kecenderungan penurunan mata di peringkat antarabangsa bagi *Transparent Ranking: Institutional Repositories by Google Scholar, 16th Edition (March 2024)*. Rujuk Jadual 2.

Meskipun penurunan jumlah *download* bagi sistem UTM-IR adalah diluar kawalan pihak PUTM, namun antara justifikasi yang mungkin menjadi punca kepada penurunan bagi pencapaian *B.2.1.5 : Number of Downloads per Document Digitized* yang dapat disimpulkan seperti berikut :

- i. Kecenderungan inovasi penyebaran maklumat yang lebih menjurus kepada persekitaran sains terbuka telah menggalakkan aktiviti pengaksesan data secara terbuka melalui platform internet lebih memudahkan pengguna mengakses maklumat bahan beserta kandungan teks penuh yang lebih meluas.
- ii. Pendepositan bahan di sistem UTM-IR bagi sesetengah rekod bahan tanpa fail lampiran teks penuh bukan bermaksud teks penuh bahan berkenaan tidak boleh dikesan secara terbuka di platform terbuka, tetapi sebaliknya syarat yang ditetapkan oleh pihak penerbit jurnal bagi artikel atau jurnal tertentu yang hanya menghadkan kandungan teks penuh bagi tujuan pembacaan sahaja dan bukan untuk dimuatnaik semula oleh mana-mana platform sistem lain untuk menjadikan teks penuh berkenaan sebagai fail lampiran kepada rekod bahan bagi sistem yang dbangunkan oleh institusi masing-masing.

Oleh itu, usaha pendepositan bahan di sistem UTM-IR masih dilihat sebagai inisiatif terbaik untuk perkongsian bahan yang dihasilkan oleh UTM secara terbuka yang akan mengalami penambahbaikan yang lebih drastik melalui pembangunan sistem baharu UTM-IK. Melalui sistem UTM-IK ini, rekod-rekod bahan berkaitan UTM yang dideposit akan memberi format baharu dalam aspek persembahan serta struktur rekod yang lebih tersusun serta integrasi pengaksesan rekod bahan secara berpusat bagi memudahkan usaha pencarian bahan UTM melalui platform terbuka dengan kawalan kepada rekod yang lebih bersistematik.

Jadual 1 : Perbandingan Jumlah Download dan Pageviews Sistem UTM-IR

TAHUN	DOWNLOAD			PAGEVIEWS		
	JUMLAH	PERATUS	CATATAN	JUMLAH	PERATUS	CATATAN
2019	1,399,750	3.3%	Peningkatan	640,261	51.7%	Peningkatan
2020	2,510,291	79.3%	Peningkatan	1,054,275	64.7%	Peningkatan
2021	2,090,553	16.7%	Penurunan	861,925	18.2%	Penurunan
2022	1,870,375	10.5%	Penurunan	1,086,154	26.0%	Peningkatan
2023	1,187,489	36.5%	Penurunan	496,596	54.3%	Penurunan

Jadual 2 : Perbandingan Kedudukan Sistem UTM-IR Berdasarkan *Transparent Ranking: Institutional Repositories by Google Scholar*

NO.	INSTITUTIONAL REPOSITORY	14th Edition (June 2022)			15th Edition (Feb 2023)			16th Edition (March 2024)			WORLD RANK COMPARISION 15th vs 16th / POINTS	
		ITEMS IN GOOGLE SCHOLAR	RANK		ITEMS IN GOOGLE SCHOLAR	RANK		ITEMS IN GOOGLE SCHOLAR	RANK			
			NATIONAL	WORLD		NATIONAL	WORLD		NATIONAL	WORLD		
1	Universiti Teknologi MARA Institutional Repository	39,900	1	83	49,500	1	56	66,800	1	40	Higher	16
2	Universiti Putra Malaysia Institutional Repository	22,100	2	221	13,900	2	386	14,300	2	427	Lower	-41
3	Universiti Teknologi Malaysia Institutional Repository	14,800	3	343	11,100	3	472	560	18	2,742	Lower	-2,270
4	University Utara Malaysia Irepository	11,800	4	436	11,000	4	476	11,700	3	525	Lower	-49
5	University of Malaya Students' Repository	10,500	5	481	11,000	5	476	10,800	4	569	Lower	-93
6	Universiti Utara Malaysia E Theses	7,070	6	699	3,550	10	1,211	4,090	8	1,225	Lower	-14
7	Universiti Kebangsaan Malaysia Journal Article Repository	5,670	7	831	5,280	6	911	6,360	5	911	Remain	0
8	Universiti Malaysia Kelantan Institutional Repository	4,800	8	949	0	25	3,922	0	23	3,994	Lower	-72
9	Universiti Malaysia Pahang Institutional Repository	4,770	9	953	2,990	11	1,311	2,930	10	1,464	Lower	-153
10	Universiti Sains Malaysia Institutional Repository	4,420	10	1,008	3,820	8	1,147	4,150	7	1,208	Lower	-61
11	Universiti Tunku Abdul Rahman (UTAR) Institutional Repository	3,120	11	1,255	1,166	17	3,730	NA	NA	NA	NA	NA
12	Universiti Kuala Lumpur Institutional Repository	2,340	12	1,444	2,350	13	1490	2,430	11	1,613	Lower	-123
13	International Islamic University Malaysia Repository	2,040	13	1,538	1,790	14	1,693	1,910	12	1,800	Lower	-107
14	University of Malaya Research Repository	3,580	14	1,157	3,640	9	1,192	3,730	9	1,282	Lower	-90
15	National Library of Malaysia Digital Repository	1,670	15	1,700	0	24	3,922	0	22	3,994	Lower	-72
16	Universiti Malaysia Sarawak Institutional Repository	1,520	16	1,774	1,240	15	1,956	1,090	14	2,228	Lower	-272
17	Universiti Malaysia Perlis Library Digital Repository	1,090	17	2,024	1,190	16	1,983	1,300	13	2,095	Lower	-112
18	Universiti Teknikal Malaysia Melaka Repository	757	18	2,307	523	21	2,621	511	19	2,807	Lower	-186
19	Universiti Malaysia Sabah Institutional Repository	595	19	2,482	672	18	2,422	687	17	2,595	Lower	-173
20	SEAFDEC Malaysia Institutional Repository	427	20	2,706	560	19	2,570	694	16	2,580	Lower	-10
21	e-IMtiyaz Islamic Science University of Malaysia Repository	358	21	2,831	548	20	2,584	827	15	2,474	Higher	110
22	University of Malaya Common Repository	132	22	3,312	159	22	3,287	179	20	3,385	Lower	-98
23	Universiti Tenaga Nasional Library Digital Repository	11	23	3,749	2,415	12	684	NA	NA	NA	NA	NA
24	Universiti Tun Hussein Onn Malaysia Institutional Repository	0	24	3,903	4,150	7	1,084	4,620	6	1,133	Lower	-49
25	Universiti Utara Malaysia (UUM) Institutional Repository	0	25	3,903	6	23	3,827	6	21	3,919	Lower	-92

