## تفاصيل مقررات قسم نظم معلومات المكتبات

	رمز المقرر
نظم المعلومات	المجال
	المعرفي
مبادئ نظم معلومات المكتبات	اسم المقرر
	بالعربي
Foundations of Library and Information Science	اسم المقرر
	بالانجليزي
نظم المعلومات	المتطلب
	السابق وصف
An introduction to the profession of Library and Information Science (LIS), this required LIS	وصف
course provides an historical framework and summary of the role of libraries and other information	المقرر
agencies in modern society, describes the general knowledge creation and distribution cycle,	
introduces major issues of information policy and ethics, provides examples of libraries, library	
types, other information institutions, and introduces aspects of research and professional	
accomplishment and careers.	*11
• Articulate important developments in library and information science as a discipline and	اهداف
profession;	المقرر
• Assess the relative importance of services offered by a variety of information agency types;	
Describe the role of diversity as it applies both to the range of information-related institutions and to the broad spectrum of populations served by the profession.	
<ul> <li>institutions and to the broad spectrum of populations served by the profession;</li> <li>Analyze relationships between information technologies and the research and practice</li> </ul>	
associated with library and information science;	
<ul> <li>Assess the impacts of important social and political issues on the profession and the role of</li> </ul>	
the profession in society;	
<ul> <li>Describe and evaluate relevant aspects of the activities and goals of the profession as a</li> </ul>	
whole and select sub-groups within the profession;	
Articulate the importance of professional statements or codes of ethics.	
3(2.2.0)	الساعات
	المعتمدة
Introduction; Course overview; fundamental concepts of information	المفردات
LIS definitions;	
History of information agencies and technologies	
Thistory of information agencies and technologies	
Information agencies: public, academic, school, corporate, governmental, archives, and records	
centers	
The LIS Profession	
LIS Education	
LIS and allied areas	
Information needs and user behavior; types of users and their needs; Models of information seeking	
behaviour	
Information services; Reference/research services; Collection development; Organization of	
information	
Information technology and the information professions	
Digital libraries; Electronic publishing	
Information policy, Public policy	

Information policy: Intellectual freedom	
Information ethics; the Digital Divide	
The Information cycle; The Future of LIS	
	المراجع

		رمز المقرر
		المجال المعرفي
تعدين النصوص		اسم المقرر بالعربي
Text Mining		اسم المقرر بالانجليزي
		المتطلب السابق
Introduces concepts and methods for knowledge discovery from large		وصف المقرر
amount of text data, and the application of text mining techniques for business intelligence, digital humanities, and social behavior analysis		
Describe basic concepts and methods in text mining, for example document representation, information extraction, text classification and		اهداف المقرر
clustering, and topic modeling;		
Use benchmark corpora, commercial and open-source text analysis and		
visualization tools to explore interesting patterns; Understand conceptually the mechanism of advanced text mining algorithms for		
information extraction, text classification and clustering, opinion mining, and their		
<ul> <li>applications in real-world problems;</li> <li>Choose appropriate technologies for specific text analysis tasks,</li> <li>and evaluate</li> </ul>		
the benefit and challenges of the chosen technical solution		
		الساعات المعتمدة
Introduction	1.	المفردات
Converting text to numbers	.2	
Corpus statistics and context	.3	
Naïve Bayes	.4	
Model evaluation	.5	
Sklearn	.6	
SVMs + feature	.7	

ranking	.8	
Human Annotation	.9	
Text categorization applications: student presentation	.10	
Document clustering	.11	
Topic modeling	.12	
Project idea presentation	.13	
Project progress workshop	.14	
Final project presentation	.15	
		المراجع
Cambridge University		
Stanford University		

	رمز المقرر
	المجال المعرفي
تطبيقات الحوسبة السحابية في المكتبات	اسم المقرر بالعربي
Application of Cloud Computing For Libraries	اسم المقرر بالانجليزي
	المتطلب السابق وصف المقرر
	وصف المقرر
So turning to cloud computing and libraries, are there real	7 11
So turning to cloud computing and libraries, are there real problems that can be solved? The answer is yes. The library	اهداف المقرر
community can apply the concept of cloud computing to	
amplify the power of cooperation and to build a significant,	
unified presence on the Web. This approach to computing	
can help libraries save time and money while simplifying	
workflows.	
A brief list of potential areas of improvement could include:	

<ul> <li>Most library computer systems are built on pre-Web</li> </ul>		
technology.		
<ul> <li>Systems distributed across the Net using pre-Web technology</li> </ul>		
are harder and more costly to integrate.		
<ul> <li>Libraries store and maintain much of the same data hundreds</li> </ul>		
and thousands of times.		
With library data scattered across distributed systems the		
library's Web presence is weakened.		
– With libraries running independent systems, collaboration		
between libraries is made difficult and expensive.		
- Information seekers work in common Web environments,		
and distributed systems make it difficult to get the library into their workflows.		
Many systems are using only to 10 % of their capacity.		
Combining systems into a cloud environment reduces the		
carbon footprints, making libraries greener.		
carson rootprinte, marting instantos grootion.		الساعات المعتمدة
Introduction	.1	المفردات
Cloud computing can transform the way systems are built and	.2	
services delivered, providing libraries with an opportunity to extend		
their impact		
What is cloud computing?	.3	
How is cloud computing different?	.4	
Why are businesses and organizations adopting	.5	
cloud computing solutions?	.6	
What can cloud computing solutions do for libraries?	.7	
Technology improvements	.8	
Data efficiencies	.9	
Community power	.10	
	.11	
	.12	
	.13	
		المراجع

	رمز المقرر
	المجال المعرفي
المكتبات الرقمية	اسم المقرر بالعربي
Digital Libraries	اسم المقرر بالانجليزي
	المتطلب السابق

An interdisciplinary study of fundamental issues, problems and		وصف المقرر
approaches to the creation and maintenance of digital libraries.		
Emphasizes the new approaches and techniques of collection		
building, organization, storage, and access of digital material		
and the evaluation of digital projects.		
- Understand the evolution, nature and different contexts of		اهداف المقرر
digital libraries		
- Gain competencies with varied techniques for collection		
building		
-Understand the strength and limitations of current approaches		
in organizing digital materials		
-Become familiar with the technologies for storing, delivering		
and disseminating digital materials in networked environment		
-Evaluate digital libraries by applying various usability and		
performance criteria		
-Explore social and economic issues of digital libraries and		
explore the limitation and trend of future digital libraries		
		الساعات المعتمدة
Introduction, syllabus review, and what are digital libraries?	.14	المفردات
Digital library initiatives and international projects	.15	
Digitalization: Forms and processes	.16	
Collection development	.17	
Techniques and technologies for multimedia storage and access	.18	
Organizing digital materials: metadata standards	.19	
Interface design and evaluation	.20	
Digital archiving and preservation	.21	
Access issues: information retrieval and reference services	.22	
Social, economic and legal issues in managing digital libraries	.23	
Evaluation of digital libraries	.24	
Digital libraries: e-books, social media, profession, problems,	.25	
limitations, and trends for the future		
and presentations Final project testing	.26	
		المراجع
Lesk, M. (2004). <i>Understanding Digital Libraries</i> . 2 <sup>nd</sup> Ed.		
Amsterdam: Morgan-Kaufmann.		
	•	

	رمز المقرر
	المجال المعرفي

		اسم المقرر بالعربي
Xml For Libraries		اسم المقرر بالانجليزي
		المنطلب السابق
The student will acquire a knowledge of key features of the		وصف المقرر
most common languages in the XML standard family. The		
student		
will fully understand the definition and structure of the		
Extensible Markup Language (XML), and tree structures in		
data		
organisation. Understanding functional programming based on XSLT.		
Core content level learning outcomes (knowledge and		اهداف المقرر
understanding)		
Familiarity with the principles of electronic documentation and		
structured documents, particularly the XML standard family.		
Understanding and capacity to use encoding, tools and		
standards related to XML, the XML tree structures, XPath,		
DTD, XML		
Schema, and CSS. Knowledge of functional programming		
using XSLT. Knowledge of XML parsers, validators and		
processors.		
Additionally, the student has knowledge of some practical		
applications of XML such as electronic commerce, Web		
Services,		
multichannel publishing and XSL-FO, RSS and semantic Web.		
Core content level learning outcomes (skills)  The unit gives an ability to plan and implement YMI based		
The unit gives an ability to plan and implement XML based		
applications, and to apply functional programming in document conversion. The student has an ability to use most important		
tools and standards related to XML, particularly DTD, XML		
Schema, CSS and XSLT. The student is familiar with some		
XML parsers, Schema validators and XSLT processors like		
Visual		
Studio.		
		الساعات المعتمدة
Introduction		
CSS style sheets,	1.	المفردات
XML definions	.2	
XML Schema and DTD document definions	.3	
XSLT transformations and programming,	.4	
other XML related standards like XHTML,	.5	

and DOM interface	.6	
	.7	
	.8	
	.9	
	.10	
	.11	
	.12	
	.13	
	.14	
	.15	
	.16	
	.10	10.100
		المراجع
		11 •
		رمز المقرر المجال المعرفي اسم المقرر بالعربي اسم المقرر بالانجليزي المتطلب السابق وصف المقرر
Let Le		المجال المعرفي
میتاداتا		اسم المقرر بالعربي
Metadata		اسم المفرر بالانجليزي
		المنطلب السابق
Principles and applications of metadata for digital resource		وصف المقرر
representation and retrieval using various schemes.		
Includes metadata creation, management, and dissemination,		
especially for digital libraries.		
1. Articulate important concepts, issues, and terminology		اهداف المقرر
related to metadata theory, standards, and		
applications relevant to cultural heritage institutions;		
2. Analyze and critically apply different approaches to		
metadata creation, storage, management, and		
dissemination within different information communities for		
different purposes;		
3. Critically analyze and compare different metadata standards		
and their applicability to different contexts;		
4. Create descriptive metadata for digital resources using		
selected metadata structure, content, value, and		
encoding standards;		
5. Design and document metadata schemes and application		
profiles to meet the functional requirements		
of specific collections, projects, organizations, and		
communities;		
- Communication	1	

6. Apply basic metadata quality metrics to evaluate the quality, interoperability, and shareability of		
different types of descriptive metadata;		
7. Be equipped with knowledge and skills relevant to entry-		
level metadata librarian and metadata		
specialist positions in cultural heritage organizations.		
3(2.2.0)		الساعات المعتمدة
Introduction to metadata for digital collections.	.1	المفردات
Introduction to digital resource description.		
Introduction to Dublin Core.	.2	
Resource ID & responsibility metadata.		
Resource content and relationship metadata.	.3	
Subject analysis and representation.		
Controlled vocabularies for improved resource	.4	
discovery.		
XML-encoded metadata.	.5	
OAI DC XML; MODS XML.		
MODS: Metadata Object Description Schema.	.6	
Mapping between DC and MODS.		
Spectrum of metadata schemes.	.7	
oXygen; XML schemas, file validation, XSLT.		
Library metadata: MARC, MARCXML, FRBR,	.8	
RDA. MarcEdit. TEI. Books and Media		
metadata: ONIX, IPTC/XMP, MPEG, etc.		
Museum metadata: VRA, CCO, CDWA.	.9	
Archives metadata: EAD, EAC.		
Metadata interoperability, shareability, OAI	.10	
harvesting, quality.		
Designing and documenting a metadata	.11	
scheme. Application profiles.		
Metadata, Linked Data, and the Semantic Web;	.12	
ontologies; RDF, SKOS.		
Administrative, preservation, rights, and	.13	
structural metadata; METS.		
Ethics and diversity in metadata.	.14	
Metadata and the Web.		
		المراجع
		·

		: 11
		رمز المقرر المجال المعرفي
استرجاع المعلومات		اسم المقرر بالعربي
Information Retrieval		اسم المقرر بالانجليزي
		المتطلب السابق
Advanced aspects of Information Retrieval and Search Engine		وصف المقرر
To study advance aspects of information retrieval and working principle of search engine, encompassing the principles, research results and commercial application of the current technologies.		اهداف المقرر
3(2.2.0)		الساعات المعتمدة
Unit 1.Introduction, History of Information Retrieval, The retrieval process, Block diagram and architecture of IR System, Web search and IR, Areas and role of AI for IR	.1	المفر دات
Unit 2. Basic IR Models: Introduction, Taxonomy of information retrieval models, Document retrieval and ranking, A formal characterization of IR models, Boolean retrieval model, Vector-space retrieval model, probabilistic model, Text-similarity metrics: TF-IDF (term frequency/inverse document frequency) weighting and cosine similarity.	.2	
Unit 3. Basic Tokenizing, Indexing, and Implementation of Vector-Space Retrieval: Simple tokenizing, Word tokenization, Text Normalization, Stop-word removal, Word Stemming (Porter Algorithm), Case folding, Lemmatization, Inverted indices (Indexing architecture), Efficient processing with sparse vectors, Sentence segmentation and Decision Trees Unit 4. Experimental Evaluation of IR: Relevance and	.4	
Retrieval, performance metrics, Basic Measures of text retrieval (Recall, Precision and F-measure)  Unit 5. Quary Operations and Languages:	.5	
Unit 5. Query Operations and Languages: Relevance feedback and pseudo relevance feedback, Query	.3	

expansion/reformulation (with a thesaurus or WordNet, Spelling correction like techniques), Query languages (Single- Word Queries, Context Queries, Boolean Queries, Natural		
Language)		
Unit 6. Text Representation:	.6	
Word statistics (Zipf's law), Morphological analysis, Index		
term selection, Using thesauri, Metadata, Text representation		
using markup languages (SGML, HTML, XML)		
Unit 7. Search Engine: 6 Hrs.	.7	
Search engines (working principle), Spidering (Structure of a		
spider, Simple spidering algorithm, multithreaded spidering,		
Bot), Directed spidering(Topic directed, Link directed)		
Crawlers (Basic crawler architecture), Link analysis (e.g. hubs		
and authorities, Page ranking, Google Page Rank), shopping		
agents		
Unit 8. Text Categorization and Clustering:	.8	
Categorization algorithms (Rocchio; naive Bayes; decision	.0	
trees; and nearest neighbor), Clustering algorithms		
(agglomerative clustering; k-means; expectation maximization		
(EM)) ,Applications to information filtering; organization		
Unit 9. Recommender Systems:	.9	
Personalization, Collaborative filtering recommendation,	.,	
Content-based recommendation		
and integrating specialized information on the web.		
Unit 10. Information Extraction and Integration.	.10	
Information extraction and applications, Extracting data from	.10	
text, Evaluating IE Accuracy, XML and Information		
Extraction, Semantic web (purpose, Relation to hypertext		
page), Collecting		
Unit 11. Advanced IR Models with indexing and searching text	.11	
Probabilistic models, Generalized Vector Space Model, Latent	.11	
Semantic Indexing (LSI), Efficient string searching, Pattern		
matching		
Unit 12. Multimedia IR	.12	
Introduction, multimedia data support in commercial DBMSs,		
Query languages, Trends and research issues		
	.13	
	.14	
		المراجع
1. Modern Information Retrieval, Ricardo Baeza-Yates,		
Berthier Ribeiro-Neto.		
	•	

2. Information Retrieval; Data Structures & Algorithms: Bill	
Frakes	

		ا ر مز المقر ر
		المحال المعرفي
		اسم المقر ر بالعربي
document design		اسم المقرر بالانجليزي
		المتطلب السابق
Document design and production unites several disciplines, including technical		و صف المقر ر
writing, information architecture, and graphic design. The important thing to		33 3
understand about the ways documents are designed and produced as we begin		
this class is that there are is ever-proliferating range of media that information		
fits into, including:		
Websites		
Mobile apps		
• Enterprise apps		
Social media channels		
Search engines		
Paper documents (reports, newsletters, books, etc.)		
• Electronic documents (pdf reports, pdf or email newsletters, ebooks,		
etc.)		
Device-specific content (i.e. Apple Watch updates)		
• Etc., etc., etc		
		m \$1
		اهداف المقرر
		الساعات المعتمدة
.1		المفر دات
.2		
.3	-	
.4		
.5		
.6		
.7	7	
.8	3	
.9	)	
.10	)	
.11	-	
.12	2	
.13	3	

	المراجع

	ı	T
		رمز المقرر
		المجال المعرفي
إدارة السجلات		اسم المقرر بالعربي
		اسم المقرر بالانجليزي
Records Management		
Organization of Information		المتطلب السابق
		وصف المقرر
A comprehensive introduction to the field of records and		
information management. Topics covered include: records		
creation, evaluation, maintenance and control; issues related to		
the maintenance, storage and disposition of records; and		
electronic records management.		. ti . i
		اهداف المقرر
The history and current status of the records and information management profession		
• The relationship between records and information managers		
and archivists		
Records inventory procedures		
Records retention policies		
• File classification systems		
Management of electronic records		
Preservation and recovery of vital records		
Confidentiality and security of records		
• eDiscovery		
Access to information and privacy regulations		
Managing social media records		
Managing records in the cloud		
3(2.2.0)		الساعات المعتمدة
Introduction to records management (RM) Components of RM	1.	المفردات
Programs Records and record life Cycles		

.2	
.3	
.4	
.5	
.6	
.7	
.8	
.9	
.10	
.11	
.12	
.13	
.14	
	المراجع
	.3 .4 .5 .6 .7 .8 .9 .10