



Course Description Form

Reviewing the Performance of Higher Education Institutions ((Academic Program Review))

This course description provides a summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the learning opportunities available. It must be linked to the program description.

1. Teaching Institution	University of Mosul
2. University Department/Centre	Department of Information and Knowledge Technologies / College of Arts / University of Mosul
3. Course Name/Code	Organizing Information Containers
4. Programmed in which it is included	Masters / Courses / scnd
5. Available Attendance Forms	Lectures
6. Semester/Year	2023/2024
7. Total Number of Hours	2
8. Description Preparation Date	1/4/2024
<p>9. Aims of the Programmer:</p> <ol style="list-style-type: none"> 1. Recognizing the importance of organizing tools for organizing information sources 2. Introducing information organization tools and their role in determining the descriptive and objective aspects of various information sources, with a focus on rules 3. AACR2 and RDA rules 	

4. Identifying the most important developments in the field of descriptive and objective analysis, especially in light of the digital environment

10. Learning Outcomes, Teaching, Learning and Assessment Methods

Teaching and Learning Methods:

1. The lecture
2. Practical lectures
3. Dialogue and interaction
4. Constructive criticism
5. Brainstorming
6. Knowledge maps

Assessment Methods

1. Cognitive assessment
2. Skills assessment
3. Creative evaluation
4. Self-evaluation

Thinking Skills

1. Critical thinking skills
2. Creative thinking skills
3. Analytical thinking skills

General and Transferable Skills (other skills relevant to employability and personal development)

1. Presentation skills
2. Research and investigation skills

11. Course Structure

Week	Number of Hours	Learning Outcomes	Name of the Unit/Course or Subject	Teaching Method	Evaluation Method
1.		<ul style="list-style-type: none"> • Definition of curriculum vocabulary • Resource description and availability rules 			

		(RDA).		
2.		<ul style="list-style-type: none"> • A comparison between the rules for describing sources and making them available by RDA and the Anglo-American cataloging rules • RDA's relationship with other technologies <ul style="list-style-type: none"> • 		
3.		<ul style="list-style-type: none"> • MARC 21 record and applications of source description and availability rules <ul style="list-style-type: none"> • Practical application: for various fields in the MARC21 record according to RDA rules <ul style="list-style-type: none"> • 		
4.		<ul style="list-style-type: none"> • Functional requirements model for the FRBR bibliographic record and its relationship to the rules for describing and making sources available <ul style="list-style-type: none"> • 		
5.		<ul style="list-style-type: none"> • Functional requirements for FRAD authority data <ul style="list-style-type: none"> • 		Lectures and students presentation
6.		<ul style="list-style-type: none"> • Functional requirements for FRSAD subject authority data <ul style="list-style-type: none"> • 		
		<ul style="list-style-type: none"> • Machine-readable indexing format: MARC21 format for authority data <ul style="list-style-type: none"> • 		
7.		<ul style="list-style-type: none"> • Properties of MARC authority fields • Components of the MARC21 authority 		

		record		
8.		<ul style="list-style-type: none"> • MARC21 authority data types and fields 		
9.		<ul style="list-style-type: none"> • Setting fields • The rest of the fields and references in the authority record 		
10.		<ul style="list-style-type: none"> • Various practical examples and solutions for authority recording 		
11.		<ul style="list-style-type: none"> • BIBFRAME data model 		
12.		<ul style="list-style-type: none"> • The relationship of the bibliographic framework data model to the rules for describing sources and making them available 		
13.		<ul style="list-style-type: none"> • BIBFRAME fields and elements 		
14.		<ul style="list-style-type: none"> • Community indexing 		
15.		<ul style="list-style-type: none"> • Definition of curriculum vocabulary • Resource description and availability rules (RDA). 		

12. Infrastructure	
<p>Required readings:</p> <ul style="list-style-type: none"> • Course books • Other 	<p>1. Recognizing the importance of organizing tools for organizing information sources</p> <p>Introducing information organization tools and their</p> <p>2. role in determining the descriptive and objective aspects of various information sources, with a focus on rules</p> <p>AACR2 and RDA rules</p> <p>3. Identifying the most important developments in the</p>

	field of descriptive and objective analysis, especially in light of the digital environment 4.Resources and links for the plays are provided to students via: Google classroom
Special Requirements	There is no comprehensive textbook available because the material is complex
Social services (including, for example, guest lectures, professional training, and field studies)	The material is included in the programs of training courses and department workshops

13. Admissions	
Prerequisites	Descriptive and subjective cataloging for the first and second stage of the bachelor's degree
The smallest number of students	3
The largest number of students	10



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1. Teaching Institution	University of Mosul
2. University Department/Centre	Department of Information and Knowledge Technologies / College of Arts / University of Mosul
3. Course Name/Code	Advanced cataloging
4. Programmed in which it is included	Masters / Courses / First
5. Available Attendance Forms	Lectures
6. Semester/Year	2023/2024
7. Total Number of Hours	2
8. Description Preparation Date	1/4/2024
<p>9. Aims of the Programmer:</p> <ol style="list-style-type: none"> 1. Recognizing the importance of organizing tools for organizing information sources 2. Introducing information organization tools and their role in determining the descriptive and objective aspects of various information sources, with a focus on rules 3. AACR2 and RDA rules 	

4. Identifying the most important developments in the field of descriptive and objective analysis, especially in light of the digital environment

10. Learning Outcomes, Teaching, Learning and Assessment Methods

Teaching and Learning Methods:

1. The lecture
2. Practical lectures
3. Dialogue and interaction
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6. Knowledge maps

Assessment Methods

1. Cognitive assessment
2. Skills assessment
3. Creative evaluation
4. Self-evaluation

Thinking Skills

1. Critical thinking skills
2. Creative thinking skills
3. Analytical thinking skills

General and Transferable Skills (other skills relevant to employability and personal development)

1. Presentation skills
2. Research and investigation skills

11. Course Structure

Week	Number of Hours	Learning Outcomes	Name of the Unit/Course or Subject	Teaching Method	Evaluation Method
1.		<ul style="list-style-type: none"> • Introduction to contemporary cataloging • Definition of curriculum vocabulary 			

		<ul style="list-style-type: none"> Types of bibliographic codifications: beginnings and origins 			
2.		Recent developments in information technology and their implications and direct effects on indexing and catalogues	•		Lectures and students presentation
3.		Reviews and amendments to AACR2, 2005 Update, compatibility with electronic and online sources, and tracking developments in the rules.	•		
4.		Efforts and activities of the Joint Cataloging Committee (JSC) Efforts of the International Federation (AFLA) in the field of indexing	• •		
5.		Online bibliographic databases and general catalogs (OCLC - OPACs)	•		
6.		MARC 21 bibliographic record	•		
		Main record fields according to AACR2 rules	•		
7.		Using MARC 21 to prepare bibliographic records for general information sources	•		
8.		A practical application on using MARC 21 in preparing records for various materials other than books	•		

9.		A practical application on indexing electronic and Internet resources according to the MARC 21 record	•	
10.		FRBR Functional Requirements Model	•	
11.		Metadata standards developments	•	
12.		Mark's ontology	•	
13.		Practical applications for indexing	•	
14.		Introduction to contemporary cataloging Definition of curriculum vocabulary	• •	
15.		Recent developments in information technology and their implications and direct effects on indexing and catalogues	•	

12. Infrastructure	
<p>Required readings:</p> <ul style="list-style-type: none"> • Course books • Other 	<ol style="list-style-type: none"> 1. Recognizing the importance of organizing tools for organizing information sources Introducing information organization tools and their 2. role in determining the descriptive and objective aspects of various information sources, with a focus on rules AACR2 and RDA rules 3. Identifying the most important developments in the field of descriptive and objective analysis, especially in light of the digital environment 4. Resources and links for the plays are provided to students via: Google classroom
Special Requirements	There is no comprehensive textbook available because the material is complex

Social services (including, for example, guest lectures, professional training, and field studies)	The material is included in the programs of training courses and department workshops
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13. Admissions	
Prerequisites	Descriptive cataloging for the first and second stage of the bachelor's degree
The smallest number of students	3
The largest number of students	10



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This course description provides a summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the learning opportunities available. It must be linked to the program description.

1. Teaching Institution	University of Mosul
2. University Department/Centre	Department of Information and Knowledge Technologies / College of Arts / University of Mosul
3. Course Name/Code	Information Analysis and Storage -Second Semester- Master
4. Programmes in which it is included	Master of Information and Libraries
5. Available Attendance Forms	Lectures
6. Semester/Year	2023/2024
7. Total Number of Hours	2
8. Description Preparation Date	1/4/2024
9. Aims of the Programme:	The article aims to inform the researcher of the nature of information storage, retrieval and databases, whether through the Internet, information networks or databases, as well as to clarify the nature of information analysis and the modern methods used in it.

10. Learning Outcomes, Teaching, Learning and Assessment Methods

Teaching and Learning Methods

1. The lecture
2. Dialogue and interaction
3. Constructive criticism
4. Brainstorming
5. Knowledge maps

Assessment Methods

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Thinking Skills

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General and Transferable Skills (other skills relevant to employability and personal development)

1. Presentation skills
2. Research and investigation skills

11. Course Structure

Week	Number of Hours	Learning Outcomes	Name of the Unit/Course or Subject	Teaching Method	Evaluation Method
1.			The subject of information science and a general introduction to the subject are discussed, as follows: the nature of information, information as communication, information as facts, information as data, the spectrum of information, and objective analysis of		

			information sources.		
2.			The subject indexing and subject analysis are addressed in terms of definition, importance, objectives, steps of subject analysis, and lists of subject headings.	Lectures and students presentation	
3.			This week, the subject of knowledge representation and information retrieval is addressed in terms of the stages of development of knowledge representation and information retrieval systems, basic concepts, concepts related to the field of information retrieval.		
4.			This week, the subject of the problem of representation and information retrieval is addressed, methods of representation, indexing, social labeling, division into categories, types of indexes, the issue of representation.		
5.			This week, the subject of data sources is addressed in knowledge representation systems, types of data, metadata, full texts, and a summary framework for information representation.		
6.			This week covers the topic of language in information representation and retrieval, restricted or		

		controlled language indexing systems, and natural language indexing systems.
7.		This week covers the topic of information representation and retrieval languages in the digital age, the development of information representation and retrieval languages, why do we need controlled natural language together, and information representation and retrieval languages in the digital age.
8.		This week covers the mid-term exam
9.		This week covers information retrieval and representation mechanisms, search mechanisms, basic search mechanisms, advanced search mechanisms, query expansion, multiple database search, search mechanism selection, and information retrieval system performance.
10.		This week covers the topics of retrieval and retrieval methods through search, browsing retrieval, integrated approach, system outputs, information retrieval problems, components of information retrieval systems
11.		This week covers the

		<p>topics of information retrieval models and matching, the basis of all information retrieval models, Boolean logic model, directional space model, probabilistic model, expansion of information retrieval methods, other information retrieval models</p>
12.		<p>This week covers the topics of knowledge representation on the Internet and the emergence and development of information access tools in the web environment, browsing, web search and retrieval tools, specialized search engines.</p>
13.		<p>This week covers the topics of knowledge representation on the Internet and beyond engines, models beyond engines available on the Internet, web portals, public portals, specialized portals.</p>
14.		<p>This week covers the topics of knowledge representation and sorting studies in the web environment, indexing and sorting in the web environment, web features, measuring stability in search engines, measuring coverage in search engines, evaluating indexing and retrieval from the web,</p>

		indexing methods.
15.		This week covers the Digital Object Identifier (DOI) and the Card Index, classification and assignment numbers, barcode, digital resource description tools, metadata, Dublin Core, open access policy, and Digital Object Identifier.

12. Infrastructure	
<p>Required readings:</p> <ul style="list-style-type: none"> • Course books • Other 	<ol style="list-style-type: none"> 1. Mohamed Fathy Abdel Hadi. Indexing and Extraction: Concepts, Foundations and Applications. - Egyptian Lebanese Circle: 2000. 2. Ghaliya Mohamed Nabil Saadallah. Knowledge Organization Tools: An Applied Study in Library and Information Ontology in Arabic (Master's Thesis). - Damascus: Damascus University, 2013. 3. Khaled Abdel Fattah Mohamed. Knowledge Representation and Digital Information Retrieval. Dubai: Qandeel for Printing, Publishing and Distribution, 2019. 4. Talal Nazim Al-Zuhairi. Digital Object Identifier (DOI) for Describing and Encoding Information Resources in the Digital Environment: Importance and Use. Iraqi Journal of Information Technology, Vol. 9, No. 32019
Special Requirements	There is no textbook available, but it consists of a collection of articles, as the topic is renewable.
Social services (including, for example, guest lectures, professional training, and field studies)	

13. Admissions/ General and private, according to the Ministry's instructions

Prerequisites	This course complements the Networks course in the fourth grade, where deeper information is provided to the student about information networks and their establishment in institutions, in line with the master's level in the specialization.
The smallest number of students	3 student
The largest number of students	12 student



وزارة التعليم العالي والبحث العلمي
جهاز الإشراف والتقييم العلمي
دائرة ضمان الجودة والاعتماد الأكاديمي
قسم الاعتماد الدولي

نموذج وصف المقرر

مراجعة أداء مؤسسات التعليم العالي ((مراجعة البرنامج الأكاديمي))

يوفر وصف المقرر هذا إيجازاً مقتضياً لأهم خصائص المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهناتاً عما إذا كان قد حقق الاستفادة القصوى من فرص التعلم المتاحة. ولا بد من الربط بينها وبين وصف البرنامج.

جامعة الموصل	1. المؤسسة التعليمية
قسم المعلومات وتقنيات المعرفة / كلية الآداب / جامعة الموصل	2. القسم الجامعي / المركز
تكنولوجيا المعلومات / ماجستير	3. اسم / رمز المقرر
ماجستير / فصل 1	4. البرامج التي يدخل فيها
المحاضرات الحضورية	5. أشكال الحضور المتاحة
2023-2024	6. الفصل / السنة
2	7. عدد الساعات الدراسية (الكلية)
1/4/2024	8. تاريخ إعداد هذا الوصف
9. أهداف المقرر: تهدف المادة الى احاطة الباحث علماً بماهية تكنولوجيا المعلومات وانواعها واشكالها وطريقة ربطها والاجهزة المترتبة فيها سواء كان ذلك من خلال شبكات الأنترنت او شبكات المعلومات الداخلية والخارجية.	



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10. مخرجات التعلم وطرائق التعليم والتعلم والتقييم
أ. طرائق التعليم والتعلم
1. المحاضرة النظرية 2. العصف الذهني 3. المناقشة والحوار 4. الاختبارات المتواصلة 5. النقد البناء
ب. طرائق التقييم
6. التقييم المعرفي 7. التقييم المهاري 8. التقييم الإبداعي 9. التقييم الذاتي
ج. مهارات التفكير
10. مهارات التفكير الناقد 11. مهارات التفكير الإبداعي 12. مهارات التفكير التحليلي
د. المهارات العامة والمنقولة (المهارات الأخرى المتعلقة بقبالية التوظيف والتطور الشخصي)
13. مهارات العرض 14. مهارات البحث والتقصي



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11. بنية المقرر					
الأسبوع	الساعات	مخرجات التعلم المطلوبة	اسم الوحدة / المساق أو الموضوع	طريقة التعليم	طريقة التقييم
1			بيان مفردات المنهاج وتوزيعها على الطلبة في مؤسسات المعلومات		
2			مفهوم تكنولوجيا المعلومات ، المفاهيم المتصلة بتكنولوجيا ، مراحل تطور تكنولوجيا المعلومات ، خصائص تكنولوجيا المعلومات		
3			مكونات تكنولوجيا المعلومات ، البيئة الأساسية لتكنولوجيا المعلومات ، أهمية تكنولوجيا المعلومات في مؤسسات المعلومات		
4		1 2 3 4	اهداف استخدام تكنولوجيا المعلومات في مؤسسات المعلومات، خصائص وميزات تكنولوجيا المعلومات في مؤسسات المعلومات	1	6
5		5 6 7 8	مميزات ادخال تكنولوجيا المعلومات في مؤسسات المعلومات، ابعاد تكنولوجيا المعلومات الحديثة في مؤسسات المعلومات	2 3 4	7 8 9
6		9 10 11	مكانة تكنولوجيا المعلومات في مؤسسات المعلومات دور تكنولوجيا المعلومات في مؤسسات المعلومات	5	
7		12 13 14	النظم الآلية ، النظم الآلية المتكاملة ، معايير النظم الآلية المتكاملة		
8			يتم في هذا الاسبوع تناول نماذج للنظم الآلية المتكاملة في المكتبات نظام الأفق (System Horizon)، نظام اليونيكورن (System UNICOR)، نظام سيمفوني (System Symphony		
9			نظام إنوباك (System INNOPAC) ، نظام الملينيوم (System Millennium ، نظام ألف (System ALEP		
10			نظام دوبيس لبيس ، نظام المكتبة الآلية المتطورة، نظام لبيس		



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	يتم تناول في هذا الاسبوع . نظام كوها			11
	يتم في هذا الاسبوع عمل امتحان نصف الفصل للاطلاع على مستوى الطلبة			12
	الاتجاهات الحديثة والوسائل التكنولوجية المستخدمة في مؤسسات المعلومات، أنواع والوسائل التكنولوجية استخدمت أحدث التقنيات المستخدمة في تكنولوجيا المعلومات في مؤسسات المعلومات			13
	تقنية الواقع الافتراضي . تقنية الواقع المعزز الخصائص والاستخدامات التي تتسم بها تقنية الواقع المعزز في مؤسسات المعلومات، أمثلة على تطبيقات تقنية الواقع المعزز في بعض العلوم، معوقات وتحديات الواقع استخدام تقنية الواقع المعزز في مؤسسات المعلومات			14
	تقنية الذكاء الاصطناعي، الحوسبة السحابية ، انترنت الاشياء ،تقنية الهولوكرام			15

12. البنية التحتية	
<p>1. الخشمي ، مسفرة بنت دخيل اللة . تقنيات المعلومات في المكتبات الطبية بمدينة الرياض: دراسة لواقعها ومقترحات تطويرها . الرياض : مكتبة الملك فهد الوطنية ، 1430</p> <p>2. احمد خزعل سالم النجار . النظم الآلية المتكاملة: نظام كوها ومدى تطبيقه على المكتبات الجامعية العراقية .- (رسالة ماجستير) كلية الآداب - جامعه الموصل ، 2018 .</p> <p>3. العمري ، نور فارس ، عمر توفيق عبد القادر . الحوسبة السحابية ومدى اهميتها للمكتبات ومراكز المعلومات . مجلة ادأب الرافيدين.- ع72،1439،2018.</p> <p>4. العبيدي ، شهد وعده الله ياسين . دور تكنولوجيا المعلومات المستخدمة في العملية التعليمية: من وجهة نظر تدريسيي جامعه الموصل: مكتبة كلية الآداب لجامعة الموصل انموذجاً.- رسالة ماجستير كلية الآداب - جامعه الموصل ، 2023</p>	<p>القراءات المطلوبة:</p> <ul style="list-style-type: none"> ▪ كتب المقرر ▪ اخرى



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متطلبات خاصة	لا يتوفر كتاب منهجي مجموعة كتب مساندة
الخدمات الاجتماعية (وتشمل على سبيل المثال محاضرات الضيوف والتدريب المهني والدراسات الميدانية)	تكليف الطلبة اعداد بحوث ومناقشتها لتطوير شخصية الطلبة ومهارة البحث العلمي في مجال تكنولوجيا المعلومات والتطبيق العملي على الانظمة الاليه المستخدمة في مؤسسات المعلومات

13. القبول / مركزي	
المتطلبات السابقة	
أقل عدد من الطلبة	4 طالبا
أكبر عدد من الطلبة	13 طالبا



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قسم الاعتماد الدولي





Course Description Form

**Reviewing Performance of Higher Education Institutes
 ((Academic Program Review))**

The concise description below shows an a count on the vital course items and educational out comes expected to be realized by Postgraduate Students to prove the possibility of getting a high benefit of the accessible Education opportunities. Naturally, there is a description program to do this.

1. Educational Institute	University of Mosul
2. Scientific Dept. / Centre	College of Arts Department of Information and Knowledge Technologies / College of
3. Title/ Code	English Technical Language
4. Included Program	M.A. Degree
5. Available Attendance	In the classrooms
6. Semester / Year	2023 – 2024
7. Number of hours (per week)	30
8. Date	30\1\2024
9. Aims:	<ul style="list-style-type: none"> - Developing translation skills among graduate students throughout translating high-level Arabic and English texts.

- How can we address the text before acting the translation of it.
- Discussing the mistakes that the translator makes during the
- translation process and discussing them so that they will not repeat them in the next tests.

10. Education Outcomes and Methods of Teaching, Learning, and Assessment

a. Methods of Teaching and Learning

1. Translation Lecture *
2. Discussion and Reaction *
3. Positive Criticism
4. Brain Storming *
5. Knowledge Plans

b. Methods of Assessment

6. Knowledge Assessment *
7. Skills Assessment*
8. Creative Assessment*
9. Self-Assessment

c. Thinking Skills

10. Critical Thinking Skills *
11. Creative Thinking Skills
12. Analytical Thinking Skills*

d. General and transferable skills (other skills related to employability and personal development)

13. Research and Investigation Skills.*
14. Presentation Skills



11. Course Structure					
Assessment Method	Learning Method	Subjects	Required Education Outcomes	Hours	Week No.
Quizzes Monthly exams Actual participations of students in the classroom	Discussing relevant points deeply Asking questions and giving suitable answers Activating the practical tasks	National science Digital libraries		2	1
		Electronic Data Exchange		2	2
		Electronic Resources Management		2	3
		Marcxml		2	4
		Taxonomy		2	5
		Folksonomy		2	6
		Open access journal		2	7
		FTP		2	8
		Resources Description and Access		2	9
		Machine Readable Cataloging		2	10
		Functional Requirements for Bibliographic Record		2	11
		Field work		2	12

		Micro drive	2	13
		Monthly exam	2	14
		Review and practices	2	15





12. Infrastructure	
Resources <ul style="list-style-type: none"> • Books • Others 	Websites, academic researches, books.
Special Requirements	<ul style="list-style-type: none"> - Focusing on important basics in the act of translation as a means of conveying meaningful expression. - Adopting practical methods in translation so that students' level will be clearly up. - Preparing frequent exams and discussing mistakes made by students are fruitful.
Social Services (e.g.: hosting lecturers, vocational training and field studies)	

13. Acceptance	
prerequisites	
Minimum number of students	6 student
Maximum number of students	12 student





Course Description Form

Reviewing the Performance of Higher Education Institutions ((Academic Program Review))

This course description provides a summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the learning opportunities available. It must be linked to the program description.

1. Teaching Institution	University of Mosul
2. University Department/Centre	Department of Information and Knowledge Technologies / College of Arts / University of Mosul
3. Course Name/Code	Advanced information services
4. Programmes in which it is included	Master's course
5. Available Attendance Forms	Lectures
6. Semester/Year	2023/2024
7. Total Number of Hours	2
8. Description Preparation Date	11/6/2024
9. Introducing the student to information technology in the field of information services and the most important modern applications in the field of information. Focusing on advanced information services and the most important developments in this field	

10. the student to information technology in the field of information services and the most important modern applications in the field

Teaching and Learning Methods

1. The lecture
2. Dialogue and interaction
3. Constructive criticism
4. Brainstorming
5. Knowledge maps

Assessment Methods

1. Cognitive assessment
2. Skills assessment
3. Creative evaluation
4. Self-evaluation

Thinking Skills

1. Critical thinking skills
2. Creative thinking skills
3. Analytical thinking skills

General and Transferable Skills (other skills relevant to employability and personal development)

1. Presentation skills
2. Research and investigation skills

11. Course Structure

Week	Number of Hours	Learning Outcomes	Name of the Unit/Course or Subject	Teaching Method	Evaluation Method
1.			Advanced information services What is information, why do we need it and its importance		
2.			What is information, why do we need it and its importance		
3.			What are the benefits of using advanced		

		information services
4.		Types of advanced information services and definition of research and analysis services
5.		Advanced information services What is information, why do we need it and its importance
6.		What are the benefits of using advanced information services?
7.		Advanced information services What is information, why do we need it and its importance
8.		Roles of advanced information services and how to analyze information
9.		
10.		System for searching, organizing and retrieving information services
11.		
12.		Search engines and their role in information services.
13.		Advanced information services What is information, why do we need it and its importance
14.		Social networking sites and activating the role of information services therein
15.		Discussing everything new in the field of information services,

		especially in the technical field	
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<p>12. Information services in light of the emerging electronic environment and artificial intelligence / 2023 / written by Faten Bamfleh</p> <p>Information services in the digital environment / Dr. Amjad Al-Jawahiri</p>	
<p>Required readings:</p> <ul style="list-style-type: none"> • Course books • Other 	<p>Resources and links for the plays are provided to students via: Google classroom</p>
<p>Special Requirements</p>	<p>A large variety of articles for scientific journals taken from the Internet</p>
<p>Social services (including, for example, guest lectures, professional training, and field studies)</p>	<p>The course is included in the seminars and workshops conducted in the college, giving the topic importance in scientific and methodological activities.</p>

<p>13. Admissions</p>	
<p>Prerequisites</p>	
<p>The smallest number of students</p>	<p>6 student</p>
<p>The largest number of students</p>	<p>12 student</p>



Course Description Form

Reviewing the Performance of Higher Education Institutions ((Academic Program Review))

This course description provides a summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the learning opportunities available. It must be linked to the program description.

1. Teaching Institution	University of Mosul
2. University Department/Centre	Department of Information and Knowledge Technologies / College of Arts / University of Mosul
3. Course Name/Code	Information Networks - First Semester - Master
4. Programmes in which it is included	Master of Information and Libraries
5. Available Attendance Forms	Lectures
6. Semester/Year	2023/2024
7. Total Number of Hours	2
8. Description Preparation Date	1/4/2024
9. Aims of the Programme:	The article aims to inform the researcher about the nature of information networks, their types, forms, method of connecting them, and the wires used in them, whether through the Internet or internal and external information networks

10. Learning Outcomes, Teaching, Learning and Assessment Methods

Teaching and Learning Methods

1. The lecture
2. Dialogue and interaction
3. Constructive criticism
4. Brainstorming
5. Knowledge maps

Assessment Methods

1. Cognitive assessment
2. Skills assessment
3. Creative evaluation
4. Self-evaluation

Thinking Skills

1. Critical thinking skills
2. Creative thinking skills
3. Analytical thinking skills

General and Transferable Skills (other skills relevant to employability and personal development)

1. Presentation skills
2. Research and investigation skills

11. Course Structure

Week	Number of Hours	Learning Outcomes	Name of the Unit/Course or Subject	Teaching Method	Evaluation Method
1.			The topic of information networks is discussed in terms of their benefits, requirements and evaluation		
2.			The topic of types of information networks and their structures is covered		
3.			This week, the scientific material for the second week is completed and the		

		structural composition of networks is discussed	Lectures and students presentation
4.		This week, the physical equipment of networks is covered	
5.		This week, the design of server, client and customer networks is covered	
6.		This week, the topic of local network topology, ring, star, linear networks, star and carrier	
7.		This week, the network card, the factors affecting it, semi-wireless card, and the main technologies in local networks are covered	
8.		This week covers Ethernet networks, wireless local area networks	
9.		This week covers the architecture of extended local area networks	
10.		This week covers network protocols	
11.		This week covers protocols	
12.		This week covers data transmission technology in information networks	
13.		This week covers network and information security	
14.		This week covers some specialized services	
15.		This week we will review and discuss student reports.	
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12. Infrastructure	
Required readings: <ul style="list-style-type: none"> • Course books • Other 	.1Amer Ibrahim Qandilji, Iman Fadhel Al-Samarrai / Information Networks. - Amman: Dar Al-Maysarah, 2009. .2Ali Kamal Shaker / Computer Networks for Library and Information Specialists. - Cairo: Dar Al-Masryah Al-Lubnaniyyah, 2009. 3. Walid Salama, Abdel Fattah Al-Tamimi / Local Networks and the Internet. - Cairo: United Arab Company, 2013.
Special Requirements	There is no textbook available, but it consists of a collection of articles, as the topic is renewable.
Social services (including, for example, guest lectures, professional training, and field studies)	

13. Admissions/ General and private, according to the Ministry's instructions	
Prerequisites	This course complements the Networks course in the fourth grade, where deeper information is provided to the student about information networks and their establishment in institutions, in line with the master's level in the specialization.
The smallest number of students	3 student
The largest number of students	12 student



Course Description Form

Reviewing the Performance of Higher Education Institutions ((Academic Program Review))

This course description provides a summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the learning opportunities available. It must be linked to the program description.

1. Teaching Institution	University of Mosul
2. University Department/Centre	Department of Information and Knowledge Technologies / College of Arts / University of Mosul
3. Course Name/Code	Research Methodology
4. Programmes in which it is included	'Masters degree,
5. Available Attendance Forms	Lectures
6. Semester/Year	2023/2024
7. Total Number of Hours	2
8. Description Preparation Date	11/6/2024
9. Introducing the student to scientific research methods and how to write solid scientific research. Introducing the student to the most important scientific methods and how to use sources and data collection tools and writing the final research report.	

10. Learning Outcomes, Teaching, the student to scientific research methods and how to write solid scientific research

Teaching and Learning Methods

1. The lecture
2. Dialogue and interaction
3. Constructive criticism
4. Brainstorming
5. Knowledge maps

Assessment Methods

1. Cognitive assessment
2. Skills assessment
3. Creative evaluation
4. Self-evaluation

Thinking Skills

1. Critical thinking skills
2. Creative thinking skills
3. Analytical thinking skills

General and Transferable Skills (other skills relevant to employability and personal development)

1. Presentation skills
2. Research and investigation skills

11. Course Structure

Week	Number of Hours	Learning Outcomes	Name of the Unit/Course or Subject	Teaching Method	Evaluation Method
1.			The concept of scientific research and its characteristics		
2.			Motivations for conducting research and studies and what are the types of		

			scientific research		
3.			The concept of scientific research methods and the historical method	Lectures and students presentation	
4.			Descriptive method, survey method, and content analysis method		
5.			Experimental, inductive, deductive and comparative method		
6.			Introduction to the research title, research problem, and hypotheses		
7.			Explaining the importance of research, the scientific research methodology, and how to write it		
8.			Introducing the study population, study limitations, and previous studies		
9.			Introducing the study terminology and the structure of scientific research		
10.			How to write sources and references		
11.			How to analyze information and derive results with scientific research		
12.			What are primary and secondary sources and how to use them in research		
13.			What are the data collection tools in research?		
14.			Using questionnaire, interview and observation in research		
15.			What are samples and how to select them for research, along with how to write the final research report		

12. Infrastructure Management Information Systems / Written by Dr. Mazhar Shaaban Al-Ani / Amman University / 2009

<p>Required readings:</p> <ul style="list-style-type: none"> • Course books • Other 	<p>Resources and links for the plays are provided to students via: Google classroom</p>
<p>Special Requirements</p>	<p>There is no systematic book available as the topic is recent</p>
<p>Social services (including, for example, guest lectures, professional training, and field studies)</p>	<p>The course is included in the seminars and workshops conducted in the college, giving the topic importance in scientific and methodological activities.</p>

13. Admissions

<p>Prerequisites</p>	
<p>The smallest number of students</p>	<p>6 student</p>
<p>The largest number of students</p>	<p>12 student</p>



Course Description Form

Reviewing the Performance of Higher Education Institutions ((Academic Program Review))

This course description provides a summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the learning opportunities available. It must be linked to the program description.

1. Teaching Institution	University of Mosul
2. University Department/Centre	Department of Information and Knowledge Technologies / College of Arts / University of Mosul
3. Administrative information system	
4. Master/ Semi-annually/second course	
5. Available Attendance Forms	Lectures
6. Semester/Year	2023/2024
7. Total Number of Hours	2
8. Description Preparation Date	1/4/2024
9. Aims of the Programme: Identifying administrative information systems in libraries and information centers in terms of their concept and development life cycle, decision support systems, information marketing, e-management, e-government and e-commerce.	

10. Learning Outcomes, Teaching, Learning and Assessment Methods

Teaching and Learning Methods

1. The lecture
2. Dialogue and interaction
3. Constructive criticism
4. Brainstorming
5. Knowledge maps

Assessment Methods

1. Cognitive assessment
2. Skills assessment
3. Creative evaluation
4. Self-evaluation

Thinking Skills

1. Critical thinking skills
2. Creative thinking skills
3. Analytical thinking skills

General and Transferable Skills (other skills relevant to employability and personal development)

1. Presentation skills
2. Research and investigation skills

11. Course Structure

Week	Number of Hours	Learning Outcomes	Name of the Unit/Course or Subject	Teaching Method	Evaluation Method
1.	2		-Management and its concept -Data, information and knowledge		
2.	2		-Administrative information system -The life cycle of management		

			information systems		
3.	2		-Information systems in administrative organizations - Decision support systems	Lectures and students presentation	
4.	2		-Achieving systems - Systems analysis - Systems design and review		
5.	2		Semester test		
6.	2		-Planning -Organization recruitment		
7.	2		-Guidance -Censorship Coordination		
8.	2		-Information marketing in terms of: -Importance, benefits and incentives -Market and consumer research		
9.			-Manage files and databases -Control and information security systems - Decision support systems		
10.			Smester test		

11.		-Systems analyst tools Administrative reporting systems
12.		-Management of information resources - Administrative systems for some libraries
13.		-General principles of electronic management -Transition to electronic management
14.		-E-Commerce - The electronic government
15.		Semester test

12. Infrastructure	
Required readings: <ul style="list-style-type: none"> • Course books • Other 	Resources and links for the plays are provided to students via: Google classroom
Special Requirements	-
Social services (including, for example, guest lectures, professional training, and field studies)	<p>-Al-Harith Abdel Moneim Ahmed El-Nile. Management Information Systems: Shendi University, 2019</p> <p>- Sherif Kamel Shaheen. Management information systems for libraries and information centers, concepts and applications. Saudi Arabia: Dar Al-Marikh, 1994</p> <p>- Nabil Ezzat Ahmed Musa. Basics of information</p>

	systems in administrative organizations, basic concepts. 3rd edition. Jeddah, 2011
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13. Admissions	
Prerequisites	-
The smallest number of students	10 students
The largest number of students	35 students



Course Description Form

Reviewing the Performance of Higher Education Institutions ((Academic Program Review))

This course description provides a summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he or she has made the most of the learning opportunities available. It must be linked to the program description.

1. Teaching Institution	University of Mosul
2. University Department/Centre	Department of Information and Knowledge Technologies / College of Arts / University of Mosul
3. Course Name/Code	Semester1 /information technology Masters
4. Programmes in which it is included	Masters /Semester 1
5. Available Attendance Forms	Lectures
6. Semester/Year	2023/2024
7. Total Number of Hours	2
8. Description Preparation Date	1/4/2024
9. Aims of the Programme: The course aims to inform the researcher of the nature of information technology, its types and forms, the method of connecting it, and the devices connected to it, whether through the Internet or internal and external information networks designing electronic educational programs	

10. Learning Outcomes, Teaching, Learning and Assessment Methods

Teaching and Learning Methods

1. Theoretical lecture
2. Brainstorming
3. Discussion and dialogue
4. Continuous testing
5. Constructive criticism

Assessment Methods

1. Cognitive assessment
2. Skills assessment
3. Creative evaluation
4. Self-evaluation

Thinking Skills

1. Critical thinking skills
2. Creative thinking skills
3. Analytical thinking skills

General and Transferable Skills (other skills relevant to employability and personal development)

1. Presentation skills
2. Research and investigation skills

11. Course Structure

Week	Number of Hours	Learning Outcomes	Name of the Unit/Course or Subject	Teaching Method	Evaluation Method
2	2		Explaining the curriculum vocabulary and distributing it to students in information institutions		
2.	2		The concept of information technology, concepts related to technology, stages of development of information technology, characteristics of information technology		
3.	2		Components of information technology, the basic environment for information		

		technology, the importance of information technology in information institutions	Lectures and students presentation
4.	2	Objectives of using information technology in information institutions, characteristics and features of information technology in information institutions	
5.	2	Justifications for introducing information technology into information institutions, dimensions of modern information technology in information institutions	
6.	2	The place of information technology in information institutions	
7.	2	The role of information technology in information institutions	
8.	2	Automated systems, integrated automated systems, standards for integrated automated systems	
9.	2	Automated systems, integrated automated systems, standards for integrated automated systems This week, examples of integrated automated systems in libraries will be discussed: the Horizon System, the Unicorn System, and the Symphony .System	
10.	2	System INNOPAC, System Millennium, System ALEP	
11.	2	Dobbs Libs system, advanced automated library system, Libsis system	
12.	2	It is being eaten this week. Koha system	
13.	2	Modern trends and technological means used in information institutions Types and means of technology The latest technologies used in information technology were used in information institutions	
14.	2	Virtual reality technology - augmented reality technology Characteristics and uses of augmented reality technology in information institutions, examples of applications of augmented reality technology in some sciences Real obstacles and challenges of using augmented reality technology in information institutions	

15.	2	Artificial intelligence technology, cloud computing, the Internet of Things, hologram technology	
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12. Infrastructure	
<p>Required readings:</p> <ul style="list-style-type: none"> ● Course books ● Other 	<ul style="list-style-type: none"> ● Al-Khathami, Misfra bint Dakhil Allah. Information technologies in medical libraries in Riyadh: a study of their reality and proposals for their development. Riyadh: King Fahd National Library, 1430 ● Ahmed Khazal Salem Al-Najjar. Integrated automated systems: The Koha system and the extent of its application to Iraqi university libraries. - (Master's thesis), College of Arts - University of Mosul, 2018. ● Al-Omari, Nour Fares, Omar Tawfiq Abdel Qader. Cloud computing and its importance for libraries and information centers. Journal of Mesopotamian Literature.-.No. 72, 1439, 2018. ● Al-Obaidi, Shahd and Adallah Yassin. The role of information technology used in the learning process: from the point of view of teachers at the University of Mosul: the library of the College of Arts at the University of Mosul as a model. - Master's thesis, College of Arts - University of Mosul, 2023.
Special Requirements	There is no systematic book or supporting book set available
Social services (including, for example, guest lectures, professional training, and field studies)	Assigning students to prepare and discuss research to develop the students' personality and scientific research skills in the field of information technology and practical application of automated systems used in information institutions.
13. Admissions	
Prerequisites	
The smallest number of students	4 students
The largest number of students	13 students