

Department of ISM Curriculum

المقررات الدراسية المقترحة لقسم إدارة أنظمة المعلوماتية / كلية معلوماتية الأعمال

Department of ISM1st year

Semester ¹

No.	Subject	Type	Theoretical	Practical	Units
1	Foundations of Information Systems	IS	3	0	3
2	Basic Digital Logic	IT	2	2	3
3	Systems Analysis & Design	IS	2	2	3
4	Discrete Mathematics	Q	2	0	2
5	Programming fundamentals in C++ I	CS	3	3	4
6	Human Rights	G	1	0	1
7	English I	G	2	0	2
Total			15	7	18

Semester ²

No.	Subject	Type	Theoretical	Practical	Units
1	Programming fundamentals in C++ II	CS	3	3	4
2	Database Design	IT	2	2	3
5	Internet and Web Technology	IT	2	2	3
4	Probability and Statistics	Q	2	0	2
5	Data Communications Concepts	IT	2	2	3
6	Freedom and Democracy	G	1	0	1
7	English II	G	2	0	2
Total			14	9	18

CS= Computer Science

IT= Information Technology

IS= Information System

M= Management

Q= Quantitative

G= General

Department of ISM2nd year

Semester ³

No.	Subject	Type	Theoretical	Practical	Units
1	Managing Systems and Technology	M	2	0	2
2	Linear Algebra	Q	2	0	2
3	Database Management System	IT	2	2	3
4	Object Oriented Programming (Python) I	CS	2	2	3
5	Introductory Financial Accounting	M	2	2	3
6	Data Structures	CS	2	2	3
7	English III	G	2	0	2
Total			14	8	18

Semester ⁴

No.	Subject	Type	Theoretical	Practical	Units
1	Algorithms and Complexity	CS	2	2	3
2	Introduction to Managerial Accounting	M	2	0	2
3	Web Systems & Technologies	IT	2	2	3
4	Networks and Telecommunications	IT	2	0	2
5	Introduction to Human-Computer Interaction	IS	2	2	3
6	Object Oriented Programming (Python) II	CS	2	2	3
7	English IV	G	2	0	2
Total			14	8	18

Department of ISM3rd year

Semester ⁵

No.	Subject	Type	Theoretical	Practical	Units
1	Intelligent Systems	CS	3	0	3
2	Quality Managing and Quality Improvement	M	2	0	2
3	Information Assurance and Security I	CS	2	0	2
4	Team Work and Communication Skills	G	2	2	3
5	Fundamentals of Electronic Commerce	IT	2	2	3
6	Mobile Computing Technology	IT	2	2	3
Total			13	6	16

Semester ⁶

No.	Subject	Type	Theoretical	Practical	Units
1	Advanced Business Intelligence	CS	3	0	3
2	System Administration and Maintenance	IT	2	2	3
3	Information Assurance and Security II	CS	2	0	2
4	IT Infrastructure	IS	2	0	2
5	Social and Ethical issues	G	2	0	2
6	Project Management	M	2	2	3
Total			13	4	15

Department of ISM4th year

Semester⁷

No.	Subject	Type	Theoretical	Practical	Units
1	Cloud Computing	IT	2	2	3
2	Network Administration	IT	3	2	4
3	Enterprise Resource Planning	M	2	2	3
4	Advance Object-Oriented Analysis and Design	CS	2	2	3
5	Enterprise Architecture	M	2	0	2
6	Projects I	G	1	6	4
Total			12	14	19

Semester⁸

No.	Subject	Type	Theoretical	Practical	Units
1	IT Security and Risk Management	IT	2	2	3
2	Web Development for E-business	IT	2	2	3
3	Strategy, Management & Acquisition	M	3	0	3
4	Business Process Management	M	3	0	3
5	Healthcare information systems	IS	2	2	3
6	Projects II	G	1	6	4
Total			13	12	19

Department of ISM Curriculum Summary

The following table shows the total number of studying hours (theoretical and practical), units and no. of courses in each semester

No.	Subject	Theoretical	Practical	Units	No. of Courses
1	Semester 1	15	7	18	7
2	Semester 2	14	9	18	7
3	Semester 3	14	8	18	7
4	Semester 4	14	8	18	7
5	Semester 5	13	6	16	6
6	Semester 6	13	4	15	6
7	Semester 7	12	14	19	6
8	Semester 8	13	12	19	6
9	Total	108	68	141	52

1- Department of ISM Curriculum Description

- Total ISM Degree Units = 141 Units.
- Theoretical hours = 108 hours.
- Practical hours = 68 hours.
- Total Courses = 52 Courses.
- IS/ACM = Information System/ Association for Computing Machinery IEEE Computer Society.
- IT/ACM = Information Technology/ Association for Computing Machinery IEEE Computer Society.
- CS/ACM = Computer System/ Association for Computing Machinery IEEE Computer Society.
- The following table shows the number of units for each type of courses in each semester with its ratio.

No.	Semester	M	IS	IT	CS	Q	G	Total
1	Semester 1	0	6	3	4	2	3	18
2	Semester 2	0	0	9	4	2	3	18
3	Semester 3	5	0	3	6	2	2	18
4	Semester 4	2	3	5	6	0	2	18
5	Semester 5	2	0	6	5	0	3	16
6	Semester 6	3	2	3	5	0	2	15
7	Semester 7	5	0	7	3	0	4	19
8	Semester 8	6	3	6	0	0	4	19
9	Total	23	14	42	33	6	23	141
10	Ratio	16.31%	9.9%	29.79%	23.40%	4.26%	16.31%	100%

- The Management Courses represents 16.42 % of the ISM program.

2- Courses Descriptions

Most of the ISM courses are selected from the suggested curriculum of ACM and ABET recommendations. In general, the ACM recommended curriculum has incorporated the comments and suggestions based on feedback from senior scholar, numerous panels, presentations, and solicitation, in many forms so it's based on professional society opinion in the field . The ACM curriculum courses are published with a specific descriptions, topics and objectives. ISM department will depend on the ACM courses suggestions taking into consideration the ABET recommendations, taught courses in ISM departments of high quality universities and recent developments in each topic.

3- References

- 1- The Joint Task Force on Computing Curricula Association for Computing Machinery (ACM) IEEE Computer Society A Cooperative , "Curricula 2013 Curriculum Guidelines for Undergraduate Degree Programs in Computer Science", December 20, 2013.
- 2- Association for Computing Machinery (ACM)& Association for Information Systems (AIS), "IS 2010 Curriculum Guidelines for Undergraduate Degree Programs in Information Systems".
- 3- Association for Computing Machinery (ACM) IEEE Computer Society, "Information Technology 2008 Curriculum Guidelines for Undergraduate Degree Programs in Information Technology".
- 4- ABET/Computing Accreditation Commission, "CRITERIA FOR ACCREDITING COMPUTING PROGRAMS", October 2013, United States of America.