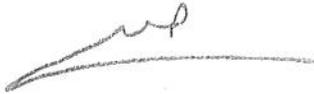


توصيف برنامج نظم المعلومات



Program Specification

(2025)

1. Basic information

ProgramTitle (according to what is stated in the bylaw):	Information Systems
Total number of credit hours/points of the program:	144 credit hours
Number of academic years/levels (expected program duration):	4
Department (s) Participating (if any) in teaching the program:	
Faculty/Institute:	Faculty of Computers and Information
University/Academy:	Menoufia University
Program majors/divisions/tracks/specialties in the final year (if any):	
Partnerships with other parties and the nature of each (if any):	
Name of the program coordinator (attach the assignment decision):	
Program Specification Approval Date:	9/16/2025
Council responsible for Program Specification Approval (Attach the Decision / Minutes):	

2. Program Aims (Brief description of the overall purpose the program)

The program aims to prepare graduates who can effectively integrate information technology solutions with business processes to address the dynamic information needs of organizations across various sectors. It focuses on developing students' ability to generate, process, analyze, and distribute information to support sound decision-making and improve operational efficiency. Through a balanced curriculum that combines technical, analytical, and managerial components, the program fosters a broad understanding of business environments and real-world challenges. Students are trained to think critically and solve complex problems, guided by strong ethical principles and professional conduct. Moreover, the program enhances interpersonal communication and teamwork skills, enabling graduates to collaborate effectively in multidisciplinary environments. Ultimately, it equips students with the knowledge and practical experience to design, develop, and implement innovative IT-based solutions that enhance organizational performance and drive sustainable growth.

3. Program Structure (Curriculum)

• Program Components

Requirement Category/Type		Number of Courses	Number of Credit Hours/Points	Percentage from the total number of hours/points
University Requirements		3	9	6%
Faculty/College Requirements (if applicable)		24	72	50%
Program Requirements		19	57	40%
Requirements of the majors/ divisions/ tracks/ specializations in the final year (if any)				
Other requirements	Field Training			
	Graduation Project	2	6	4%
	Mandatory training year			
	Other (to be mentioned)			
Total Compulsory Courses		37	111	78%
Elective Courses		11	33	22%
Total		48	144	100%

• Program courses according to the expected study plan

Academic Level	Semester	Course Code	Course Title	Course Type (Compulsory / Elective)	Requirement Category/ Type	Number of Credit Hours/ Points	Number of Weekly Hours		
							Theoretical teaching	Practical training	Other
الاول	فصل دراسي اول	GN170	Scientific & Technical Report Writing	اجباري	جامعة	3	3	-	-
الاول	فصل دراسي اول	GN160	Quality	اجباري	جامعة	0	1	-	-
الاول	فصل دراسي اول	GN140	Professional Ethics	اختياري	جامعة	3	3	-	-
الاول	فصل دراسي اول		Mathematics-0	اجباري	كلية	3	2	2	-
الاول	فصل دراسي اول	MA111	Mathematics-1	اجباري	كلية	3	2	2	-
الاول	فصل دراسي اول	OD111	Discrete Mathematics	اجباري	كلية	3	2	2	-
الاول	فصل دراسي اول	CS111	Computer Introduction	اجباري	كلية	3	2	2	-
الاول	فصل دراسي اول	CS110	Semiconductors	اجباري	كلية	3	2	2	-
الاول	فصل دراسي ثاني	CS131	Fundamentals of Programming	اجباري	كلية	3	2	2	-
الاول	فصل دراسي ثاني	IT181	Logic Design -1	اجباري	كلية	3	2	2	-
الاول	فصل دراسي ثاني	MA112	Mathematics-2	اجباري	كلية	3	2	2	-

Academic Level	Semester	Course Code	Course Title	Course Type (Compulsory / Elective)	Requirement Category/ Type	Number of Credit Hours/ Points	Number of Weekly Hours		
							Theoretical teaching	Practical training	Other
الاول	فصل دراسي ثاني	IS111	Introduction to IS	اجباري	كلية	3	2	2	-
الاول	فصل دراسي ثاني	ST190	Statistics & Probabilities	اجباري	كلية	3	2	2	-
الاول	فصل دراسي ثاني	GN112	Fundamentals of Management	اجباري	جامعة	3	3	-	-
الاول	فصل دراسي ثاني	HM110	Human Rights	اجباري	جامعة	-	1	-	-
الثاني	فصل دراسي اول	IS212	Systems Analysis & Design -1	اجباري	كلية	3	2	2	-
الثاني	فصل دراسي اول	CS132	Computer Programming - 1	اجباري	كلية	3	2	2	-
الثاني	فصل دراسي اول	IT261	Multimedia-1	اجباري	كلية	3	2	2	-
الثاني	فصل دراسي اول	OD213	Introduction to Operation Research & Decision Support	اجباري	كلية	3	2	2	-
الثاني	فصل دراسي اول	IT282	Computer Architecture	اجباري	كلية	3	2	2	-

Academic Level	Semester	Course Code	Course Title	Course Type (Compulsory / Elective)	Requirement Category/ Type	Number of Credit Hours/ Points	Number of Weekly Hours		
							Theoretical teaching	Practical training	Other
الثاني	فصل دراسي اول	IS373	E-Business	اختياري	كلية	3	2	2	-
الثاني	فصل دراسي ثاني	CS233	Computer Programming-2	اجباري	كلية	3	2	2	-
الثاني	فصل دراسي ثاني	CS212	Data Structure	اجباري	كلية	3	2	2	-
الثاني	فصل دراسي ثاني	CS261	Operating Systems-1	اجباري	كلية	3	2	2	-
الثاني	فصل دراسي ثاني	IS251	Web Design and Development	اجباري	كلية	3	2	2	-
الثاني	فصل دراسي ثاني	OD342	Modeling & Simulation	اجباري	كلية	3	2	2	-
الثاني	فصل دراسي ثاني	IT211	Computer Networks-1	اجباري	كلية	3	2	2	-
الثاني	فصل دراسي ثاني	MA213	Mathematics-3	اختياري	كلية	3	2	2	-
الثالث	فصل دراسي اول	CS251	Software Engineering-1	اجباري	كلية	3	2	2	-
الثالث	فصل دراسي اول	IS221	Database Systems-1	اجباري	كلية	3	2	2	-
الثالث	فصل دراسي اول	CS321	Artificial Intelligence	اجباري	كلية	3	2	2	-

Academic Level	Semester	Course Code	Course Title	Course Type (Compulsory / Elective)	Requirement Category/ Type	Number of Credit Hours/ Points	Number of Weekly Hours		
							Theoretical teaching	Practical training	Other
الثالث	فصل دراسي اول	IS435	Cloud Computing	اجباري	تخصص	3	2	2	-
الثالث	فصل دراسي اول	IS312	Systems Analysis & Design -2	اجباري	تخصص	3	2	2	-
الثالث	فصل دراسي اول	IS449	Enterprise Architecture	اجباري	تخصص	3	2	2	-
الثالث	فصل دراسي ثاني	CS313	Analysis and Design of Algorithms	اختياري	كلية	3	2	2	-
الثالث	فصل دراسي ثاني	IS322	Database Systems-2	اجباري	تخصص	3	2	2	-
الثالث	فصل دراسي ثاني	IS355	Information Retrieval	اجباري	تخصص	3	2	2	-
الثالث	فصل دراسي ثاني	IS463	Information Security	اجباري	تخصص	3	2	2	-
الثالث	فصل دراسي ثاني	CS438	Mobile Application Programming	اختياري	تخصص	3	2	2	-
الثالث	فصل دراسي ثاني	IS343	IS Strategy, Management &	اختياري	تخصص	3	2	2	-

Academic Level	Semester	Course Code	Course Title	Course Type (Compulsory / Elective)	Requirement Category/ Type	Number of Credit Hours/ Points	Number of Weekly Hours		
							Theoretical teaching	Practical training	Other
			Acquisition						
الرابع	فصل دراسي اول	IS426	Modern Database Systems	اجباري	تخصص	3	2	2	-
الرابع	فصل دراسي اول	IS465	Data Mining	اجباري	تخصص	3	2	2	-
الرابع	فصل دراسي اول	IS341	Enterprise Resource planning	اختياري	تخصص	3	2	2	-
الرابع	فصل دراسي اول	IS467	Social Informatics	اختياري	تخصص	3	2	2	-
الرابع	فصل دراسي اول	IS331	Business Intelligence	اجباري	تخصص	3	2	2	-
الرابع	فصل دراسي اول	IS485	Project	اجباري	تخصص	3	2	2	-
الرابع	فصل دراسي ثاني	IS433	Distributed Database Management	اجباري	تخصص	3	2	2	-
الرابع	فصل دراسي ثاني	IS462	Geographic IS	اجباري	تخصص	3	2	2	-
الرابع	فصل دراسي ثاني	IS479	IS Innovation and New Technologies	اختياري	تخصص	3	2	2	-
الرابع	فصل دراسي ثاني	IS482	Big Data	اختياري	تخصص	3	2	2	-
الرابع	فصل دراسي ثاني	IS447	Knowledge	اجباري	تخصص	3	2	2	-

Academic Level	Semester	Course Code	Course Title	Course Type (Compulsory / Elective)	Requirement Category/ Type	Number of Credit Hours/ Points	Number of Weekly Hours		
							Theoretical teaching	Practical training	Other
			Manag ement						
الرابع	فصل دراسي ثاني	IS485	Project	اجباري	تخصص	3	2	2	-
الرابع	فصل دراسي ثاني			اجباري	تخصص	3	2	2	-

4. Academic Standards

- Adopted Academic Standards (NARS/ARS): NARS
- Date of Adoption of Standards in the governing Council: 9/16/2020

5. Matrix of Academic Standards (Program Outcomes POs) with Courses

Compulsory Courses (name and code)	Academic Standards (Knowledge and understanding)																			
	K 1	K 2	K 3	K 4	K 5	K 6	K 7	K 8	K 9	K 10	K 11	K 12	K 13	K 14	K 15	K 16	K 17	K 18	K 19	K 20
Database Systems-2 [S322]	✓		✓		✓			✓			✓					✓				
Systems Analysis & Design -2 [S312]			✓	✓			✓		✓			✓					✓			
Business Intelligence [S331]	✓	✓			✓	✓							✓							✓
Information Retrieval [S355]		✓		✓			✓		✓	✓					✓					✓
Information Security [S463]	✓			✓		✓		✓				✓								✓
Modern Database Systems	✓		✓		✓		✓									✓		✓		

Compulsory Courses (name and code)	Academic Standards (Knowledge and understanding)																			
	K 1	K 2	K 3	K 4	K 5	K 6	K 7	K 8	K 9	K 10	K 11	K 12	K 13	K 14	K 15	K 16	K 17	K 18	K 19	K 20
[IS426]																				
Data Mining [IS465]				✓		✓		✓	✓				✓							
Distributed Database Management [IS433]		✓	✓				✓	✓			✓						✓			
Cloud Computing [IS435]	✓	✓			✓				✓	✓				✓						
Enterprise Architecture [IS449]	✓				✓	✓	✓											✓		✓
Geographic IS [IS462]		✓	✓			✓		✓				✓				✓				
Project [IS485]			✓			✓	✓		✓				✓						✓	

This table combines the Information Systems (K1–K9) and Computing and Information Sector (K10–K20) knowledge outcomes to show how each course supports the required academic standards.

Compulsory Courses (name and code)	Academic Standards (Intellectual skills)																	
	I1	I2	I3	I4	I5	I6	I7	I8	I9	I10	I11	I12	I13	I14	I15	I16	I17	I18
Database Systems-2 [IS322]	✓		✓		✓			✓			✓					✓		
Systems Analysis & Design -2 [IS312]			✓	✓			✓		✓				✓				✓	
Business Intelligence [IS331]	✓	✓			✓	✓								✓				✓
Information Retrieval [IS355]		✓		✓			✓		✓	✓					✓			
Information Security	✓			✓		✓		✓				✓		✓				

Compulsory Courses (name and code)	Academic Standards (Intellectual skills)																	
	I1	I2	I3	I4	I5	I6	I7	I8	I9	I10	I11	I12	I13	I14	I15	I16	I17	I18
[IS463]																		
Modern Database Systems [IS426]	✓		✓		✓		✓									✓		✓
Data Mining [IS465]				✓		✓		✓	✓				✓		✓			
Distributed Database Management [IS433]		✓	✓				✓	✓			✓						✓	
Cloud Computing [IS435]	✓	✓			✓				✓	✓				✓				
Enterprise Architecture [IS449]	✓				✓	✓	✓											✓
Geographic IS [IS462]	✓	✓	✓		✓	✓						✓				✓		
Project [IS485]			✓			✓	✓		✓				✓					

This table combines the Information Systems (I1–I9) and Computing and Information Sector (I10–I18) intellectual skill outcomes to show how each course supports the required academic standards.

Compulsory Courses (name and code)	Academic Standards (Professional and practical skills)																		
	P 1	P 2	P 3	P 4	P 5	P 6	P 7	P 8	P 9	P 10	P 11	P 12	P 13	P 14	P 15	P 16	P 17	P 18	P 19
Database Systems-2 [IS322]		✓		✓			✓			✓					✓				
Systems Analysis & Design -2 [IS312]			✓			✓		✓				✓				✓			
Business Intelligence [IS331]	✓			✓	✓								✓					✓	

Compulsory Courses (name and code)	Academic Standards (Professional and practical skills)																		
	P 1	P 2	P 3	P 4	P 5	P 6	P 7	P 8	P 9	P 10	P 11	P 12	P 13	P 14	P 15	P 16	P 17	P 18	P 19
Information Retrieval [IS355]	✓		✓					✓	✓					✓					
Information Security [IS463]			✓		✓		✓				✓							✓	
Modern Database Systems [IS426]		✓		✓		✓									✓		✓		
Data Mining [IS465]			✓		✓			✓				✓							
Distributed Database Management [IS433]	✓	✓				✓	✓			✓						✓			✓
Cloud Computing [IS435]	✓			✓				✓	✓				✓						
Enterprise Architecture [IS449]				✓	✓	✓												✓	✓
Geographic IS [IS462]	✓		✓		✓	✓					✓				✓				
Project [IS485]		✓				✓		✓				✓						✓	

This table combines the Information Systems (P1–P11) and Computing and Information Sector (P12–P19) professional and practical skill outcomes to show how each course supports the required academic standards

Compulsory Courses (name and code)	Academic Standards (Transferable skills)							
	T1	T2	T3	T4	T5	T6	T7	T8
Fundamentals of Programming [CS131]	✓					✓		
Computer Introduction [CS111]				✓		✓		
Semiconductors [CS110]							✓	
Logic Design -1 [IT181]		✓						✓

Compulsory Courses (name and code)	Academic Standards (Transferable skills)							
	T1	T2	T3	T4	T5	T6	T7	T8
Mathematics-2 [MA112]	✓			✓				
Introduction to IS [IS111]			✓			✓		
Statistics & Probabilities [ST190]				✓				✓
Computer Programming – 1 [CS132]					✓			
Computer Architecture [IT282]			✓			✓		
Multimedia-1 [IT261]			✓				✓	
Computer Programming-2 [CS233]		✓						✓
Project [IS485]		✓			✓			

This table presents the Transferable skills (T1–T8) outcomes, which belong entirely to the Computing and Information Sector, showing how each course contributes to achieving these standards.

6. Teaching and Learning strategies/methods to achieve Program Outcomes:

1. Lectures.
2. Tutorials.
3. Discussion Sessions.
4. Practical labs.
5. Case Study.
6. Projects / Assignments
7. Self-learning Activities.
8. Problem-based Learning.
9. Flipped Classroom.
10. Team-based Learning.

7. Student Assessment strategies/methods to verify and ensure students' acquisition of Program Outcomes:

1. Midterm exam (written)
2. Practical exam
3. Oral exam
4. Final exam (written)
5. Field training
6. Projects
7. Quizzes

8. Program Key Performance Indicators (if any)

No.	Performance Indicator	Target Level	Method	Measurement
1.				
2.				
3.				

Prof. Asma Haron
Program Coordinator

Asma Haron

Prof. Hamdy mousa
Vice Dean for Education and Student Affairs

Hamdy Mousa