

Course Specification

(2024/2025)

1. Basic Information

Course Title (according to the bylaw)	Introduction to Quality			
Course Code (according to the bylaw)	BI 106			
Department/s participating in delivery of the course	Department of Basic Sciences			
Number of credit hours/points of the course (according to the bylaw)	Theoretical	Practical	Other (specify)	Total
	1	-----	-----	2
Course Type	Elective			
Academic level at which the course is taught	Level 1 (1 st semester)			
Academic Program	Basic Sciences			
Institute	Institute of High Technology Institute of Applied Health Science			
Academy	Nile delta for science and technology			
Name of Course Coordinator				
Course Specification Approval Date				
Course Specification Approval (Attach the decision/minutes of the department /committee/council)				

2. Course Overview (Brief summary of scientific content)

This course introduces students to the concepts, tools, and techniques used in Total Quality Management, quality cultures, and effective team structures. It covers measurement of quality, productivity, and competitiveness in an organizational environment. The course not only introduces students to the concepts of quality assurance and quality control, but also connects data collection and analysis, productivity, statistical process control, and other related topics to quality and customer satisfaction.

3. Course Learning Outcomes CLOs

Matrix of course learning outcomes CLOs with program outcomes POs (NARS/ARS)

Program Outcomes (NARS/ARS) (according to the matrix in the program specs)		Course Learning Outcomes Upon completion of the course, the student will be able to:	
Code	Text	Code	Text
	4.1.1- Participate in teamwork harmoniously and exhibit collaborate effectively with colleagues and other health care professionals		<ul style="list-style-type: none">• Be able to understand a strategic planning and deployment process for improvement, performing a SWOT analysis and reviewing current models/tools such as balanced scorecard, scenario planning and Hoshin planning/policy.• Develop aligned goals, long-and short-term objectives and plans, for their functions.• Understand current practices in customer and market requirement definition, satisfaction/retention, and product and process design, including completing a QFD relationship matrix.• Know when and how to use fundamental QC and QA elements to control, correct and

Program Outcomes (NARS/ARS) (according to the matrix in the program specs)		Course Learning Outcomes Upon completion of the course, the student will be able to:	
Code	Text	Code	Text
			improve processes and products. Includes the use of a problem solving process and quality tools, control plans and charts, process capability, audits, supplier quality management, documentation, calibration, and measurement quality.

4. Teaching and Learning Methods

- Group and pair work.
- Exercises
- Group and pair work.
- Presentations by students
- Learning in groups and team works.
- Group projects

Course Schedule

Number of the Week	Scientific content of the course (Course Topics)	Total Weekly Hours	Expected number of the Learning Hours			
			Theoretical teaching (lectures/discussion groups/)	Training (Practical/ Clinical/)	Self-learning (Tasks/ Assignments/ Projects/ ...)	Other (to be determined)
1	Introduction and Basics	2	2			
2	Leadership, Organizational, and HR Issues	2	2			
3	Leadership, Organizational, and HR Issues II	2	2			
4	Strategic Planning	2	2			
5	Strategic Planning II	2	2			
6	Mid term exam					
7	Strategic Planning III	2	2			
8	Customer and Market Focus	2	2			
9	Customer and Market Focus II	2	2			
10	Information and Analysis	2	2			
11	Information and Analysis II	2	2			
12	Process Management	2	2			
13	Process Management II	2	2			
14	---					
15-16	Final exam					

5. Methods of students' assessment

No.	Assessment Methods *	Assessment Timing (Week Number)	Marks/ Scores	Percentage of total course Marks
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1	Exam 1 written (Semester work)	6 th	20	20%
2	Exam 2 (Semester work)	-----	-----	-----
3	Final Written Exam	15 th	50	50%
	Final Practical/Clinical/... Exam	--	--	--
	Final Oral Exam	-----	-----	-----
	Presentation	-	20	20%
	Field training	-----	-----	-----
	Other (Mention)	Attendance	10	10%

*** The methods mentioned are examples, the organization may add and/or delete**

6. Learning Resources and Supportive Facilities *

Learning resources (books, scientific references, etc.) *	The main (essential) reference for the course (must be written in full according to the scientific documentation method)	<ul style="list-style-type: none"> Total Quality Management and Operational Excellence (4th edition), John S. Oakland, Routledge, 2014 Juran's Quality Handbook (6th edition), Defeo, Joseph; Juran, J. M., McGRAW-HILL, 2011
	Other References	
	Electronic Sources (Links must be added)	[1] http://www.asq.org [2] http://www.juse.or.jp [3] http://www.iso.org/iso/en/ISOOnline.frontpage
	Learning Platforms (Links must be added)	
	Other (to be mentioned)	https://www.ekb.eg/ar
Supportive facilities & equipment for teaching and learning *	Devices/Instruments	Projector, Desktop Computer
	Supplies	, Whiteboard Markers
	Electronic Programs	ابن الهيثم Model
	Skill Labs/ Simulators	Presentation
	Virtual Labs	-----
	Other (to be mentioned)	-----

*** The list mentioned is an example, the institution may add and/or delete depending on the nature of the course**

Name and Signature
Course Coordinator

Name and Signature
Program Coordinator

