Course Specification
(Bachelor)

Course Title:	Quality and Safety in Health Informatics
Course Code:	HI3601
Program:	Bachelor's Degree in Health Informatics
Department:	Health Administration and Hospitals
College:	Public Health and Health Informatics
Institution:	Umm Al-Qura University- Makkah, Saudi Arabia
Version:	V.1
Last Revision Date:	New Course Specification

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A. General information about the course:

1. Course Identification

1. Credit hours: (…3Hrs……)					
2. Course type					
A.	☐University	☐College	☒ Department	☐Track	☐Others
B.	☒ Required		☐Elective		
3. Level/year at which this course is offered: Level-6, 3rd Year					
4. Course General Description:					
The Quality and Safety in Health Informatics course will help students to think interdisciplinary when tackling problems for quality improvement in health informatics domain. The course covers the fundamentals of healthcare quality as well as methods and techniques for putting in place a long-term program of quality and patient safety in the healthcare system. This course also covers the issues of measuring, managing and improving the quality of health care and safety as well as the impact of accreditation.					
5. Pre-requirements for this course (if any)**:**					
None					
6. Co-requisites for this course (if any)**:**					
None					
7. Course Main Objective(s):					
❖ To acquire the basics knowledge, skills and values of Quality and Safety in Health Informatics domain. ❖ To define the significance of quality and safety in enhancing the efficacy and efficiency of health services.					

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	45	100%
2	E-learning	0	0
3	Hybrid • Traditional classroom • E-learning	0	0

No	Mode of Instruction	Contact Hours	Percentage
4	Distance learning	0	0

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
.1	**Lectures**	45
.2	**Laboratory/Studio**	00
.3	**Field**	00
.4	**Tutorial**	00
.5	**Others (specify)**	00
Total		45

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	Define the concept theories & models of Quality and Safety in Health Informatics Domain.	K1	Interactive Academic Lectures Class and group discussions Textbook and research literature readings Individual and Group Case Studies Individual and Group Projects Inverted Class	**Examination**
1.2	Describe performance improvements methodologies.	K1		**Examination**
2.0	**Skills**			
2.1	Evaluate healthcare quality and patient safety tools and techniques.	S3	Interactive Academic Lectures Class and group discussions Textbook and research literature readings	**Examination**
2.2	Explain Quality and Safety in Healthcare.	S3		**Examination**
2.3	Analyse Accreditation,	S3		

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
	Benchmark and Auditing process in healthcare.		Individual and Group Case Studies	**Examination**
2.4	Interprets Lean & Six Sigma methodology in healthcare.	S3	Individual and Group Projects Inverted Class	**Examination**
3.0	**Values, autonomy, and responsibility**			
3.1	Work in quality improvement projects professionally.	V2	Class and group discussions Textbook and research literature review readings	Assignments Presentations Student Projects

C. Course Content

No	List of Topics	Contact Hours
1.	**Focus on Quality**	**03**
2.	**Determinants of Quality- Structure, Process & Outcome**	**06**
3.	**Quality Management Building Blocks**	**03**
4.	**Measuring Performance**	**03**
5.	**Continuous Improvement**	**03**
6.	**Performance Improvement Tools**	**09**
7.	**Improving Patient Safety**	**03**
8.	**Achieving Reliable Quality and Safety**	**03**
9.	**Managing the Use of Healthcare Resources**	**03**
10.	**Organizing for Quality**	**03**
11.	**Accreditation, Benchmark and Auditing**	**03**
12.	**Introduction to Lean & Six Sigma**	**03**
Total		**45**

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quiz	4th & 5th Week	10%
2.	Mid- Term Exam	7th – 8th Week	20%
3.	Assignments	10th Week	10%
4.	Presentations/ Student Project	11th-12th Week	10%
5.	Final Exam	17th -18th Week	50%
	Total		100%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	**Introduction to Healthcare Quality Management, Third Edition (Gateway to Healthcare Management),** by Patrice Spath, Publisher: Health Administration Press; March 1, 2018, ISBN-10: 1567939856, ISBN-13: 978-1567939859
Supportive References	**Quality and Performance Improvement in Healthcare:** Theory, Practice, and Management 6th Edition, by Patricia L. Shaw (Author), Publisher: AHIMA; November 1, 2015, ISBN-10: 1584264756, ISBN-13: 978-1584264750 Any other suitable textbook related to healthcare quality and safety area.
Electronic Materials	**American Board of Quality Assurance and Utilization Review Physicians**, Inc. (ABQAURP), http://www.abqaurp.org **American Healthcare Society**, ASQ: The Global Voice of Quality, www.asq.org **Saudi Society for Health Administration** **https://ssha.org.sa/?lang=en**
Other Learning Materials	https://www.coursera.org/learn/quality-healthcare

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classroom with proper seating arrangement for students, Computer Lab.
Technology equipment (projector, smart board, software)	Projector/ Data Show with Screen, MS Office, Python Software
Other equipment (depending on the nature of the specialty)	White Board with Marker

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	In-Direct
Effectiveness of Students assessment	Students & Committee Members	In-Direct
Quality of learning resources	Students, Course Review Committee	In-Direct
The extent to which CLOs have been achieved	Course Review Committee	Direct/ Indirect
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewers, Others (specify)

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	