Syrian Arab Republic		الجمهوريّة العربيّة السوريّة
Ministry of Higher Education and Scientific Research		وزارة التعليـم العالــــي والبحث العلمي
Syrian Virtual University		الجامعة الافتراضيّة السوريّة

Course Definition:

1- Basic Information:

Course Name	Implementation of Technology in Medical Education
Course ID	TME
Contact Hours (Registered Sessions)	12
Contact Hours (Synchronized Sessions)	12
Mid Term Exam	
Exam	75 MIN
Registered Sessions Work Load	12
Synchronized Session Work Load	12
Credit Hours	7

2- Pre-Requisites:

Course	ID
Quality Assurance and Accreditation of Medical Schools	QAMS

3- Course General Objectives:

After completing this course, the student will be able to:
- ✓ Learn about the concept of technology in medical education -.
- ✓ Learn about the most important technology applications in medical education
- ✓ Learn the justifications for using technology applications in medical education
- ✓ Understand the concept of e-learning techniques, its characteristics, goals, genesis and patterns.
- ✓ Understand the concept of the evolution of the use of simulation applications and the structure of the simulation program in education
- ✓ Understand the concept of designing electronic curriculum content standards for designing electronic curriculum content
- ✓ Knowledge of electronic content management systems (concept, patterns).
- ✓ Oversees the evaluation of technology applications in medical education
- ✓ Supervises the creation of educational electronic content

4- Intended Learning Outcomes (ILO):

Code	Intended Learning Outcomes
ILO1	Distinguishing the differences between the methods of applying technology in medical education
ILO2	Explain the methods of applying technology to detect diseases and avoid errors
ILO3	Applying the appropriate tools to create educational electronic content
ILO4	Apply modern technology to design an educational training course
ILO5	Evaluating the current situation in medical institutions in terms of technology application
ILO6	Explanation of simulation-based training

5- Course Syllabus (18 hours of total synchronized sessions)

- **RS:** Recorded Sessions; **SS:** Synchronized Sessions;

ILO	Course Syllabus	RS	SS	Type	Additional Notes
ILO1	Basic concepts - the most important applications of technology in medical education - justifications for the use of technology in medical education		3	Attendance and participation	
ILO2	Characteristics of applications, applications of technology in medical education and the benefits it provides.		3	Attendance and participation	
ILO3	Methods for evaluating applications in medical education		3	Assignments	
ILO4	Distance learning and e-learning		3	Assignments	
ILO5	The concept of simulation and the use of simulation applications in education - classification of simulation applications in education		3	Attendance and participation	

ILO6	Create educational electronic content		3	Attendance and participation	
ILO7	Technology applications in healthcare and hospitals		3	Assignments	

6- Assessment Criteria (Related to ILOs)

ISC	Interactive Synchronized Collaboration		Ex	Exams		Rpt	Reports
PF2F	Presentations and Face-to-Face Assessments		PW	Practice Work			

ILO Code	ILO	Intended Results	Assessment Type				
			ISC	PW	Ex	PF2F	Rpt
ILO1	Distinguishing the differences between the methods of applying technology in medical education	Determines the features and pros of each application	✓		✓		✓
ILO2	Explain the methods of applying technology to detect diseases and avoid errors	Mention the effect of technology applications on reducing medical error	✓		✓		
ILO3	Applying the appropriate tools to create educational electronic content	Capable of using applications to design educational software	✓		✓		
ILO4	Apply modern technology to design an educational training course	Realizes and saves design training steps	✓		✓		
ILO5	Evaluating the current situation in medical institutions in terms of technology application	Compare between the different applications in hospitals	✓		✓		

ILO6	Explanation of simulation-based training	Decides and adopts the appropriate simulation method in medical education	✓		✓			

7- Practice Tools:

Tool Name	Description

8- Main References

- ✓ Moran J, Briscoe G, Peglow S. Current Technology in Advancing Medical Education: Perspectives for Learning and Providing Care. Academic Psychiatry (2018) 42:796–799
- ✓ Guze Ph. Using Technology To Meet The Challenges Of Medical Education. Transactions Of The American Clinical And Climatological Association, Vol. 126, 2015
- ✓ Bullock A, Webb K. Technology in postgraduate medical education: a dynamic influence on learning?. Postgrad Med J 2015;91:646–650.
- ✓ Kirkwood APL. Technology-enhanced learning and teaching in higher education:
- ✓ what is 'enhanced' and how do we know? A critical literature review. Learn Media
- ✓ Technol 2014;39:6–36.
- ✓ Hayden JK, Smiley RA, Alexander M, Kardong-Edgren S, Jeffries PR (2014) Supplement: the NCSBN National Simulation Study: a longitudinal, randomized, controlled study replacing clinical hours with simulation in prelicensure nursing education. J Nurs Regul 5(2):C1–S64 Healthysimulation.com (2017)
- ✓ INACSL Standards Committee (2016) INACSL standards of best practice: SimulationSM outcomes and objectives. Clin Simul Nurs 12(S):S13–S15.

9- Additional References

- ✓ Howard. C. learning content mamagement system: wahat works.industry trends. Best practices. And vendors profiles . Bersin & associates - October 2005

- ✓ Olive Bohl . The sharable content object reference model (SCORM)-a critical review- Conference -Computers in education, 2002. proceedings. international conference on International Journal of Computer Science and Electronics Engineering (IJCSEE) Volume 1, Issue 2 (2013) ISSN 2320–4028

- ✓ Aschenbrenner D, Milgrom L,Settles J, (2012) In Theoretical Framework for Simulation Design in P .Jeffries (ED) Simulation

- ✓ In Nursing Education. The National League for Nursing, New York: New York. Billings, D.M. & Halstead ,J.A. (2009) Teaching in Nursing, A guide for Faculty. 3 rd ED. St. Louis, MA: Saunders Elsevier.