



University/Academy: Arab Academy for Science and Technology & Maritime Transport
Faculty/Institute: College of Computing and Information Technology
Program: Information Systems

Course title	E-Learning
Course code	IS472

Form no. (11A) Knowledge and skills matrix for a course

Course content	Week study	Knowledge	Intellectual skills	Professional skills	General skills
e-learning systems and technology concepts	1				
<ul style="list-style-type: none"> ▪ Why is e-learning so important? 	2	<ul style="list-style-type: none"> ▪ Understand concepts of e-learning. ▪ Understand how e-learning is different from traditional methods. ▪ Know what is meant by learning style. 	<ul style="list-style-type: none"> ▪ Realize the benefits of e-learning approaches. 	<ul style="list-style-type: none"> ▪ Assessing traditional and e-learning skills ▪ Apply e-learning concepts in tutorial activities. 	
<ul style="list-style-type: none"> ▪ Types of e-learning and technologies required 	3	<ul style="list-style-type: none"> ▪ Define Interaction in learning environments. ▪ Define Learning resources. ▪ Understand how 	<ul style="list-style-type: none"> ▪ Learn about important leaning concepts like Interaction and support. ▪ Recognize the new role of tutors in e-learning 	<ul style="list-style-type: none"> ▪ Assessing traditional and e-learning skills. ▪ Assessing different learning resources. ▪ Evaluate e-learning 	<ul style="list-style-type: none"> ▪ Improve team work skills ▪ Acquire better work ethics through valuing individual effort

Course content	Week study	Knowledge	Intellectual skills	Professional skills	General skills
		<p>individual learning is different from group learning.</p> <ul style="list-style-type: none"> Identify evaluation of e-learning system. Understand the concept of support in learning. 	<p>environments.</p> <ul style="list-style-type: none"> Differentiate between formal and informal learning 	<p>courses.</p> <ul style="list-style-type: none"> Apply e-learning concepts in tutorial activities. 	
Traditional learning skills	4	<ul style="list-style-type: none"> Understand main traditional learning skills on which e-learning skills are built upon. 	<ul style="list-style-type: none"> Recognize the difficulties of achieving some learning skills in traditional learning. Realize the need for e-learning to enhance some learning skills. 	<ul style="list-style-type: none"> Evaluate traditional learning environments. Apply learned concepts related to traditional learning skills in tutorial activities. 	<ul style="list-style-type: none"> Improve Learning skills Improve team work skills Acquire better work ethics through valuing individual effort
Tools for accessing e-learning	5	<ul style="list-style-type: none"> Know information and communication technology skills and concepts particularly relevant to e-learning. 	<ul style="list-style-type: none"> Articulate ICT implications for designing e-learning systems. 	<ul style="list-style-type: none"> Use different information and communication technologies in e-learning environments. Apply learned concepts related to computer skills in tutorial activities. 	<ul style="list-style-type: none"> Improve team work skills Acquire better work ethics through valuing individual effort
<ul style="list-style-type: none"> Categories of software tools for e-learning 	6	<ul style="list-style-type: none"> Understand e-learning environments and approaches. Define different means of delivering e-learning. 	<ul style="list-style-type: none"> Demonstrate the choice of delivering e-learning techniques and the advantage and disadvantage associated with each 	<ul style="list-style-type: none"> Select suitable learning environment for particular cases. Apply learned concepts related to learning environments in tutorial activities. 	<ul style="list-style-type: none"> Improve team work skills Acquire better work ethics through valuing individual effort

Course content	Week study	Knowledge	Intellectual skills	Professional skills	General skills
7th Week Exam	7				
Tools for creating e-learning content	8	<ul style="list-style-type: none"> ▪ Understand e-learning environments and approaches. ▪ Define different means of delivering e-learning. 	<ul style="list-style-type: none"> ▪ Demonstrate the choice of delivering e-learning techniques and the advantage and disadvantage associated with each. 	<ul style="list-style-type: none"> ▪ Select suitable learning environment for particular cases. ▪ Apply learned concepts related to learning environments in tutorial activities. 	<ul style="list-style-type: none"> ▪ Improve team work skills ▪ Acquire better work ethics through valuing individual effort
e-learning skills	9	<ul style="list-style-type: none"> ▪ Understand the nature of e-learning skills. ▪ Define the necessary e-learning skills required for e-learners. 	<ul style="list-style-type: none"> ▪ Recall the most important e-learning skills ▪ Learn the importance of having e-learning systems that facilitate e-learning skills. 	<ul style="list-style-type: none"> ▪ Apply learned concepts related to e-learning skills in tutorial activities. ▪ Develop e-learning systems that provide different e-learning skills. 	<ul style="list-style-type: none"> ▪ Improve Learning skills ▪ Improve team work skills ▪ Acquire better work ethics through valuing individual effort
e-learning skills	10	<ul style="list-style-type: none"> ▪ Understand the nature of e-learning skills. ▪ Define the necessary e-learning skills required for e-learners. ▪ Understand how learners can develop their e-learning skills. 	<ul style="list-style-type: none"> ▪ Recall the most important e-learning skills ▪ Learn the importance of having e-learning systems that facilitate e-learning skills. 	<ul style="list-style-type: none"> ▪ Practice to develop main e-learning skills. ▪ Apply learned concepts related to e-learning skills in tutorial activities. ▪ Develop e-learning systems that provide different e-learning skills. ▪ Design e-learning systems that help learners develop their e-learning skills. 	<ul style="list-style-type: none"> ▪ Improve Learning skills ▪ Improve team work skills ▪ Acquire better work ethics through valuing individual effort

Course content	Week study	Knowledge	Intellectual skills	Professional skills	General skills
Communication skills	11	<ul style="list-style-type: none"> ▪ Know the nature of communication skills that help learners take part in e-learning courses. ▪ Understand the meaning of communication in learning environments. ▪ Define some important communication skills in learning. 	<ul style="list-style-type: none"> ▪ Recognize the importance of communication skills in learning process. ▪ Learn about some important communication skills for learning. 	<ul style="list-style-type: none"> ▪ Apply learned concepts related to communication skills in tutorial activities. ▪ Develop e-learning systems that provide different communication means between learners and tutors. ▪ Design e-learning systems that help learners develop their communication skills. 	<ul style="list-style-type: none"> ▪ Improve Communication skills ▪ Improve team work skills ▪ Acquire better work ethics through valuing individual effort
12th Week exam	12				
Goal of e-learning	13	<ul style="list-style-type: none"> ▪ Know the nature of communication skills that help learners take part in e-learning courses. ▪ Understand the meaning of communication in learning environments. ▪ Define some important communication skills in learning. 	<ul style="list-style-type: none"> ▪ Recognize the importance of communication skills in learning process. ▪ Learn about some important communication skills for learning. 	<ul style="list-style-type: none"> ▪ Apply learned concepts related to communication skills in tutorial activities. ▪ Develop e-learning systems that provide different communication means between learners and tutors. ▪ Design e-learning systems that help learners develop their communication skills. 	<ul style="list-style-type: none"> ▪ Improve Communication skills ▪ Improve team work skills ▪ Acquire better work ethics through valuing individual effort
Group and cooperative learning	14	<ul style="list-style-type: none"> ▪ Understand the nature of working and learning with others in collaborative learning. 	<ul style="list-style-type: none"> ▪ Recognize the importance of group and cooperative learning skills. 	<ul style="list-style-type: none"> ▪ Apply learned concepts related to group learning in tutorial activities. ▪ Develop e-learning 	<ul style="list-style-type: none"> ▪ Improve Communication skills ▪ Improve team work skills

Course content	Week study	Knowledge	Intellectual skills	Professional skills	General skills
		<ul style="list-style-type: none"> ▪ Define shapes of group and cooperative learning. 	<ul style="list-style-type: none"> ▪ Learn some ways for group and cooperative learning. 	<ul style="list-style-type: none"> systems that provide group learning facilities to learners and tutors. ▪ Design e-learning systems that help learners develop their group learning skills. 	<ul style="list-style-type: none"> ▪ Acquire better work ethics through valuing individual effort
<u>Projects delivery and presentations</u>	15				<ul style="list-style-type: none"> ▪ Improve Communication and presentation skills
<u>Final Exam</u>	16				

Course Instructor

Name:

Signature:

Head of Department

Name:

Signature: