Engineering Drawing and Projection

Basic Course Specification			
Course Title	Course Code	Program on which the course is given	
Engineering Drawing and Projection	ME 151T	Bachelor	
Academic Year	Specialization (hr/week)	Pre-Requisites	
	Lab. 3		
2020 - 2021	Application 3	None	
	Credit 2		
Overall Course Objectives			

This course describes the basic information of engineering drawing and knows the different types for drawing, such as sectioning, pictorial drawing.

• This syllabus covers the requirements of the STCW-78 as amended. In particular Chapter III, Section A-III/1 for the function "Maintenance and repair at the Operational Level", STCW-78, as amended.

• The syllabus is designed with the guide of IMO Model course7.04 version 2014 and function 3.

Course Learning Outcomes. By successful completion of the course each student will be able to:

Торіс	Linking to PLOs	7th Week Assessment	12 th Week Assessment	Class Activities	Final Exam
1. Describe basics of engineering drawing.	A,c, f			X	Х
2. Prepare engineering drawings, computer graphics & specialized technical reports.	B,e	X	X	X	Х
3. Perform the tasks related to engineering drawing.				X	Х
4. Justify application of concepts related to engineering drawing.				X	Х

Course Content				
Lec./ Week #	Торіс	Hrs.#	Lab.	Application
1	Introduction to AutoCAD Types of Drawing + Line work	6	3	3
2	AutoCAD basics633Geometrical construction + Development and Dimensioning633			
3	Object construction and manipulation Three views projection	6	3	3
4	Object construction and manipulation Three views projection and free hand sketching	6	3	3
5	Object construction and manipulation Third view projection	6	3	3
6	Object modification Third view projection	6	3	3

Course Content				
Lec./ Week #	Торіс	Hrs.#	Lab.	Application
7	Object modification 7 th week Exam	6	3	3
8	Object modification Third view projection and intersecting of geometrical surfaces		3	3
9	layers + Text Sectioning	6	3	3
10	Dimensioning Sectioning	6	3	3
11	Lay out and plotting Standard metal sections and metal structure	6	3	3
12	Section views, hatching + 2D analysis Compound metal and welding + 12 th week Exam	6	3	3
13	Section views, hatching + 2D analysis Pictorial drawing (Isometric)	6	3	3
14 Isometric drawing Pictorial drawing (Isometric) and perspective projection		6	3	3
15	Isometric drawing Perspective projection	6	3	3
16	Final Exam			
Total Hours		90	45	45

Teaching & Learning Methods	Facilities Required for Teaching & Learning Methods		
• Lectures	• White board		
• Tutorials	• Drawing Lab. including computers.		
Assignments & sheets			

Students Assessment Methods					
Assessment Schedule					
Assessment#1 Wee		Week 7			
Assessment#2			Week 12		
Assessment#3 Week 16			Week 16		
Grading Method					
7 th Week Assessment	Written Exam		30%		
12 th week Assessment	Written Exam		20%		
Class Activities	Participation and Quiz		10%		
Final Exam	Written Exam		Written Exam		40%
Total		100 %			
Assessment criteria meets the standards of the STCW 78 convention "as amended"; and in the light of the related IMO model courses.					

Staff Requirements		
Ph.D.		
List of References		
Course Notes	Essential Books	
Course content and assignments are prepared by Department Staff, 2019	None	
Recommended Books	Periodicals and Publications	
None	None	
Accreditation Bodies		
*Egyptian Authority for Maritime Safet	y (EAMS)	
*European Commission (EC)		
*ISO (9001 – 2015) - DNV-GL		
*Central Evaluation and Accreditation Agency Hanover, Germany (ZEVA)		
*Ministry of Education (KSA)		
Ministry of Higher Education (Greece)		
*Ministry of Higher Education (Oman)		
*Commission for Academic Accreditation (CAA), Ministry of higher Education (UAE)		
*University of Plymouth, United Kingdom (dual degree)		

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