

University/Academy:

Faculty/Institute: Alexandria Higher Institute of Engineering & Technology (AIET)

Program: Industrial Department

Course title	Design of Machine Elements
Course code	ME142

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

Course content	Week study	Knowledge	Intellectual skills	Professional skills	General skills
Introduction & Screw	1, 2	• a1, a6	• b1, b6	• c1	• d1
Simple Stresses & Locking devices	3, 4	• a1, a2, a6	• b1, b2, b6	• c1	• d1, d2
Compound Stresses	5, 6	• a1, a2	• b1, b2	• c1	• d1, d2
Design of Rivets & Keys and Pins	9, 10	• a1, a2, a3	• b1, b2, b3, b7	• c2	• d1, d2, d3
Welding & Welded joints and symbols	11, 12	• a1, a2, a4	• b1, b2, b4, b8	• c3	• d1, d2, d3
Belt Drive & Helical spring and Bearing	13, 14	• a5, a8	• b5, b9, b10	• c4	• d1, d2, d3
Gears	15	• a9	• b11	• c1	• d1, d3

Course Instructor:

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