TEDU Industrial Engineering Mapping Between Program Outcomes and European Qualifications Framework		**Knowledge**	**Skills**	**Competence**	**Competence**
		advanced knowledge of a field of work or study, involving a critical understanding of theories and principles	advanced skills, demonstrating mastery and innovation, required to solve complex and unpredictable problems in a specialised field of work or study	manage complex technical or professional activities or projects, taking responsibility for decision-making in unpredictable work or study contexts	take responsibility for managing professional development of individuals and groups
1	comprehend concepts of mathematics and basic sciences (a1)				
2	be able to apply concepts of engineering (a2)				
3	be able to design and conduct experiments (b1)				
4	be able to analyze and interpret data (b2)				
5	be able to design and/or improve a system, component, or process effectively by applying notions of optimality to meet desired needs (c)				
6	function in interdisciplinary teams through good working habits, time management, and self-discipline (d)				
7	be able to identify, formulate, and solve engineering problems and design alternatives (e)				
8	demonstrate professional and ethical responsibility (f)				
9	use an advanced level of English in interpersonal communication and selfdevelopment (g1)				
10	demonstrate effective communication skills (g2)				
11	be able to express a creative thought on and critical assessment of events and ideas in a global/societal context (h)				
12	recognize the need for, and have an ability to engage in life-long learning (i)				
13	be able to comprehend contemporary issues (j)				
14	use the techniques, skills, and modern engineering tools necessary for engineering practice (k)				
15	recognize and appreciate different cultures and respect individual and cultural differences (l)				