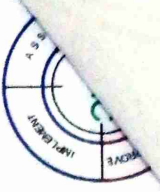


**Criteria Compliance Report for the Academic Year 2020/2021 for The Department of Mechanical Engineering**

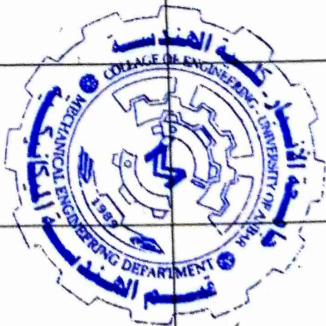
Criterion (According to the adopted accreditation system)	Compliance level			Justification (According to the SSR and ICAEE performance indicators)	Measurements in the improvement plan for this academic year	Measurements in the improvement plan for the previous academic year	Responsible person/ Authority	Implementation	Record of last evaluation for the action performed	Result (compliance or non-compliance)
	Weak <sup>(1)</sup>	Concern <sup>(1)</sup>	Strong <sup>(1)</sup>							
<b>Criterion-1: Program Educational Objectives</b>			✓	As indicated by the success of graduates, the program's reputation with employers, and the demand for the program, the program continues to satisfy educational objectives and outcomes.	85%	80%	Scientific committee in the mechanical department			compliance

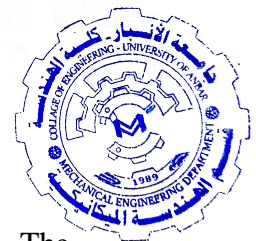


<p><b>Criterion-2:</b> Graduate outcomes</p>			<p>✓</p>	<p>ICAAEE's most recent student outcomes were used in the program.</p>	<p>80%</p>	<p>70%</p>		<p>compliance</p>
<p><b>Criterion-3:</b> Curriculum</p>			<p>✓</p>	<p>The Graduate Outcomes are linked to the curriculum, and it is designed to educate and prepare students to achieve them throughout their education.</p>	<p>90%</p>	<p>80%</p>		<p>compliance</p>
<p><b>Criterion-4:</b> Continues Improvement</p>		<p>✓</p>		<p>It has been implemented, the assessment and improvement cycle has completed.</p>	<p>90%</p>	<p>80%</p>		<p>compliance</p>
<p><b>Criterion-5:</b> Students</p>				<p>Policies for students are well established.</p>	<p>95%</p>	<p>90%</p>		<p>compliance</p>



<p><b>Criterion-6:</b> Faculty</p>			✓	Faculty size, qualifications, and workload all meet ICACE requirements.	90%	90%				compliance
<p><b>Criterion-7:</b> Administrative Support</p>			✓	Accordance with the ICACE criteria						compliance
<p><b>Criterion-8:</b> Financial Support</p>			✓	Every year, the ministry determined the budgets for all departments based on the ministry's central budget.						compliance
<p><b>Criterion-9:</b> Facilities</p>			✓	The College of Engineering's space and facilities are sufficient to allow all of the College's Departments to properly administer and						compliance





### 2.1.2 Statement of PEOs

The PROs of BSc Programs is published and publicize in the university website. The BSc. Program at the UoA will produce graduates who.

#### • **PEO-1: Professional Presence**

As a result, within a few years, the graduate has established an Internet presence, either through professional organizations, social networking and/or other activities which demonstrate an appreciation and use of modern technological capabilities.

#### • **PEO-2: Workforce Skilled in Integrating Engineering, Design, and modern Technology**

As a result, graduates will identify opportunities to contribute to develop society life from a variety of positions, ranging from design and produce modern devices, conducting the awareness program in minimizing the solid waste, in the safety aspects of our mundane activities, introducing the cost effective products, using the present technology in an environmental friendly way/approach and engage professionally in private and governmental sectors such as consulting firms, contracting companies, marketing and real-estate investments. The graduate may also pursue further education in the form of graduate and professional degrees.

#### • **PEO-3: Leadership in Research, Innovation and Design**

As a result, within a few years of graduation, the graduate will have made significant or meaningful contributions in his or her chosen field, either thorough research publications and/or presentations, the development of a new design or conducting processes, obtaining patents, or other evidence of contributing to the advancement of knowledge, particularly in the fields of product design, fabrication/manufacture, energy and power.

#### • **PEO-4: Ethical Reasoning, Behaviour and Professionalism**

As a result, within a few years of graduation, the graduate will demonstrate adherence to the professional codes of conduct appropriate to his or her field of study and/or practice, as well as exhibit behaviour consistent with accepted standards of fiduciary responsibility, risk/benefit analysis and professional accountability.

#### • **PEO-5: Communication**

As a result, graduates will have outstanding communication skills as evidenced by their professional presentations, and in their productive interactions with co-workers. The graduates may also use their communication skills to foster collaborative effort among co-workers and/or may represent his or her company, institution and/or laboratory to other interested parties.

#### • **PEO-6: Personal Engagement**

As a result, within a few years, the graduate will be working independently and in multidisciplinary teams to effectively and efficiently achieve personal and organizational goals, engage in community or public service, create a product or





construction that fills a social need, and/or participate in educating individuals about an issue of societal concern.

### **2.1.3 PEOs Consistency with the Mission of the Institution**

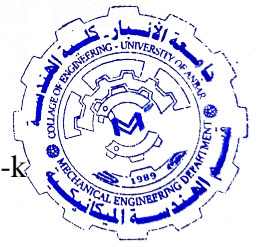
The Mechanical Engineering Program Educational Objectives are consistent with the mission of the university and college. The university mission broadly describes to provide a distinct quality of education, teaching and scientific research via adopting strategies of analytical and critical thinking for rehabilitation of human resources in the levels of knowledge, thinking, and skills in a creative and competitive environment. The college mission to establish the typical Engineering education and scientific research according to the requirements of standard criteria in order to achieve the community satisfaction and carry on continuous improvements. The college goals statement is more specific and includes: “To develop the ability of the staff members in such a way train and qualify them to become leaders in the business and labor market to serve the whole society” and “To qualify engineers who are able to seriously take the entire responsibility in the field, by providing students with the required learning and training courses and widen their knowledge with the fundamental engineering disciplines”. The Mechanical Engineering Department PEOs are aligned well, closely linked to, and consistent with the department’s mission. PEO 1 provides the first step towards a career of achievement and service. The needed background of knowledge and skills are acquired to achieve PEO 1. Students acquire quality education through several avenues, including knowledge, skills and values as reflected in PEO 1. The professional and ethical issues are also preserved in PEO 1. PEOs 2, 3, 4 and 6 ensure the qualities for self-development and professional growth and improvement of the faculty and administrative and technical staff. The Department PEOs are closely linked to, and consistent with, the University of Anbar and College of Engineering missions. The University and College missions are directly served by the first, fifth and seventh (ME) Department PEOs

## **2.2 Criterion 2: Graduate outcomes**

### **2.2.1 Adopted Graduate Outcomes**

Students of the Mechanical Engineering program will attain (by the time of graduation):

- i)** An ability to distinguish, identify, define, formulate, and solve engineering problems by applying principles of engineering, science and mathematics.
- ii)** An ability to produce engineering designs that meet desired needs within certain constraints by applying both analysis and synthesis in the design process.
- iii)** An ability to create and carry out proper measurement and tests with quality assurance, analyze and interpret results, and utilize engineering judgment to make inferences.
- iv)** An ability to skillfully communicate orally with a gathering of people and in writing with various managerial levels.
- v)** An ability to perceive ethical and professional responsibilities in engineering cases and make brilliant judgments taking into account the consequences in worldwide financial, ecological and societal considerations.
- vi)** An ability to perceive the continual necessity for professional knowledge growth and how to find, assess, assemble and apply it properly.
- vii)** An ability to work adequately on teams and to set up objectives, plan activities,



meet due dates, and manage risk and uncertainty. The program started in 2010 with a-k graduate outcomes (ABET graduate outcomes), these were changed in 2018 to the 7 more generalized ones.

### 2.2.2 Relating GOs to PEOs

The achievement of the Graduate Outcomes ensures that our graduates are well equipped to achieve the Program Educational Objectives in actual practice following graduation. The linkage between the individual Program Educational Objective (PEOs) and the Graduate Outcomes (GOs) in addition to ABET SOs are shown below in Fig. 1 and Table 2.2

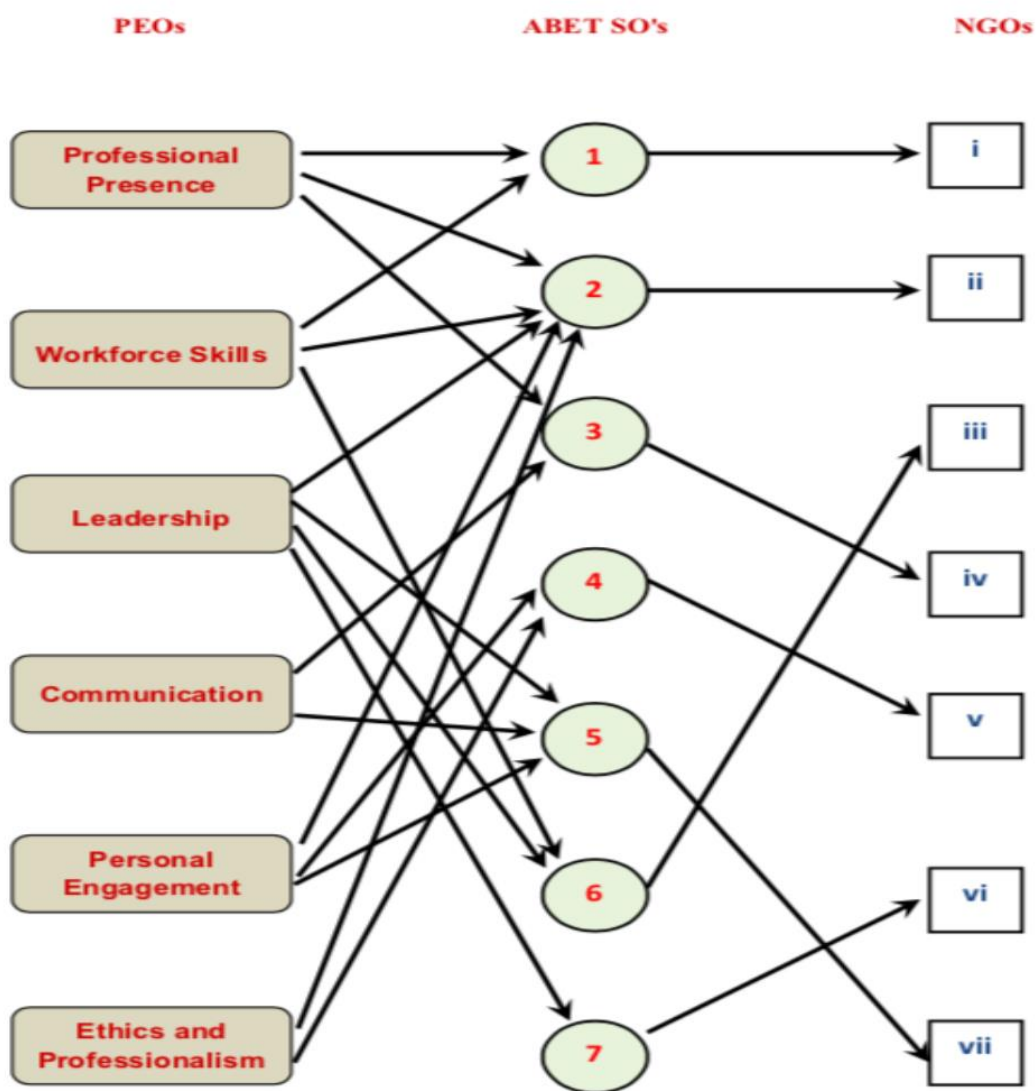


Fig. 2.1: The Relation between College PEO's, NGO's and ABET SO's