

## NQF\_consistency\_report

### Mapping between Student Learning Outcomes and NQF Learning

NQF Learning Domains	Learning Outcomes	NQF Learning Outcomes
Knowledge	In-depth knowledge and comprehension of processes, materials, techniques, practices, conventions and/or terminology of Construction Management.	In depth and specialized body of knowledge
	Knowledge and comprehension of research methodology and inquiry techniques	Critical knowledge and understanding of processes, materials, techniques, practices, conventions and/or terminology relevant to a certain discipline, profession, or field of work
Skills	An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics	Critical knowledge and understanding of processes, materials, techniques, practices, conventions and/or terminology relevant to a certain discipline, profession, or field of work
	An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors	Solve problems in complex and advanced contexts, in a discipline profession or field of work
	An ability to communicate effectively with a range of audiences	Communicate in various forms to disseminate knowledge, skills, research results, and innovations related to a discipline or field of work to specialist and non-specialist audiences
	An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions	Use processes, techniques, tools, instruments and/or materials that are advanced and specialized to deal with complex and advanced practical activities
	An ability to acquire and apply new knowledge as needed, using appropriate learning strategies	Assess, critically review, and reflect on the main concepts, principles, and theories and provide creative solutions in complex and advanced contexts, to current issues and problems, in a discipline, profession or field of work

	An ability to conduct sound research in Construction Project Management by utilizing appropriate research methods	Carry out advanced research or professional project using specialized techniques of research and enquiry in a discipline, profession, or field of work
<b>Values</b>	An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts	Represent integrity and professional and academic values when dealing with various issues
	An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives	Initiate professional planning for learning and/or work, and professional development , monitor learning and performance, and take part in academic and or professional strategic decisions with high autonomy

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NQF Learning Domains and Learning Outcomes	Teaching Strategies	Assessment Methods
<b>Knowledge</b>		
In depth knowledge and understanding in the application of mathematical and scientific principles, and concept in civil engineering discipline.	Lectures, Class discussion, Visual presentation, Tutorial (video + practical), Group discussion	Home assignments and Quizzes, mid-terms exam and final exam,.
Advanced engineering knowledge and understanding in their areas of specialization, as well as specific research or inquiry techniques in civil engineering		
<b>Skills</b>		
Apply advanced mathematics and engineering knowledge in identifying, formulating and solving civil engineering problems with consideration to provide solutions that meets specific needs with consideration to public health, safety, and welfare, as well as global, cultural, social, environmental and economic factors.	Lectures/teaching students, Class discussion, Tutorial (video + practical), Group discussion, Research Project	Home assignments and Quizzes. Summative assessment methods: mid-terms exam and final exam, project and presentation
Conduct advanced research or professional projects using specialized research and enquiry methodologies in civil engineering, profession, or field of work		
Modeling of advanced civil engineering projects using modern tools and analyze and interpret the results		
Perform complex and advanced practical tasks and procedures in specialized areas related to civil engineering		
Communicate in various forms to disseminate knowledge, skills, research findings, and innovations related to		

civil engineering		
Values		
Apply ethical principles and commit to professional ethics, responsibilities, and norms of engineering practice.	Discussions with students on professional and ethical guidelines, Motivation and Expanding students' keen interest, Tutorial based on standard and professional guidelines	Designated questions in Midterm and Final Exams based on standard and professional guidelines, Reports, Group Assignments, Group discussions, Presentations
Assess own learning and performance autonomously and engage in independent life-long learning..		
Plan and manage civil engineering projects with high responsibility and autonomy, and function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings		

**Check List to Review Program Learning Outcomes:**

1. Does it describe what students should know, able to do, and value (demonstrate, or produce)?	Yes	--
2. Does it use action verbs?	Yes	--
3. Is it distinct and specific?	Yes	--
4. Is it expressed in terms of the overall program and not individual courses?	Yes	--
5. Does it map to curriculum, and educational practices?	Yes	--
6. Is collaboratively authored and collectively accepted?	Yes	--
7. Is it student centered?	Yes	--
8. Does it specify appropriate conditions for performance?	Yes	--
9. Is it written in terms of observable, behavioral outcomes?	Yes	--
10. Does it measure a range of educational outcomes?	Yes	--
11. Is it designed so that it can be assessed by various methods of assessment?	Yes	--
12. Does it include professional organization standards (if any)?	Yes	--
13. Can it be assessed quantitatively and/or qualitatively?	Yes	--
14. Is it aligned with the institutional learning outcomes?	Yes	--
15. Is it aligned with NQF KSA and the degree level descriptors?	Yes	--

**Graduate Attributes:**

- Graduates should have comprehensive knowledge and understanding of their subject area, providing creative solutions, the ability to engage with different traditions of thought, and the ability to apply their knowledge in practice including in multi-disciplinary or multi-professional contexts.
- Graduates should solve problems effectively, apply critical, independent learning, creative and evidence-based thinking to conceive innovative responses to future challenges and provide leadership when appropriate in group situations.
- Graduate should have sound ethical and moral judgments in dealing with sensitive and complex issues
- Graduates should convey ideas and information effectively to a range of audiences for a variety of purposes and contribute in a positive and collaborative manner to achieving common goals.
- Graduates should engage in professional behavior with Islamic values and beliefs, and reflect high levels of loyalty, responsibility, and commitment to service to society
- Graduates should have the potential to be entrepreneurial and take leadership roles in their chosen occupations or careers and communities.