Form-1

Imam Mohammad ibn Saud Islamic University
College of Engineering
Mechanical Engineering Department

Name of Supervisor:

Student Names	University IDs

Project Title:

	Course Contents		
Week	**Topics to be Covered**	**Phase**	**Semester**
1-3		**GP-I**	Academic Year: 1445 Semester [2]
4-7			
8-9			
10-11			
13-16		**GP-II**	Academic Year:1445 Semester [3]
17-20			
21-23			
24-25			

Simple Description of Graduation Project: *(Write the project statement briefly)*

Expected Outcomes: *(List down possible outcomes of the project)*

Main characteristics: *(Select all possible properties of the project)*

☐ Applied - Real-life application
☐ Novelty - Potential of publication
☐ Intellectual property - Potential of patenting
☐ Prototyping - Physical model development

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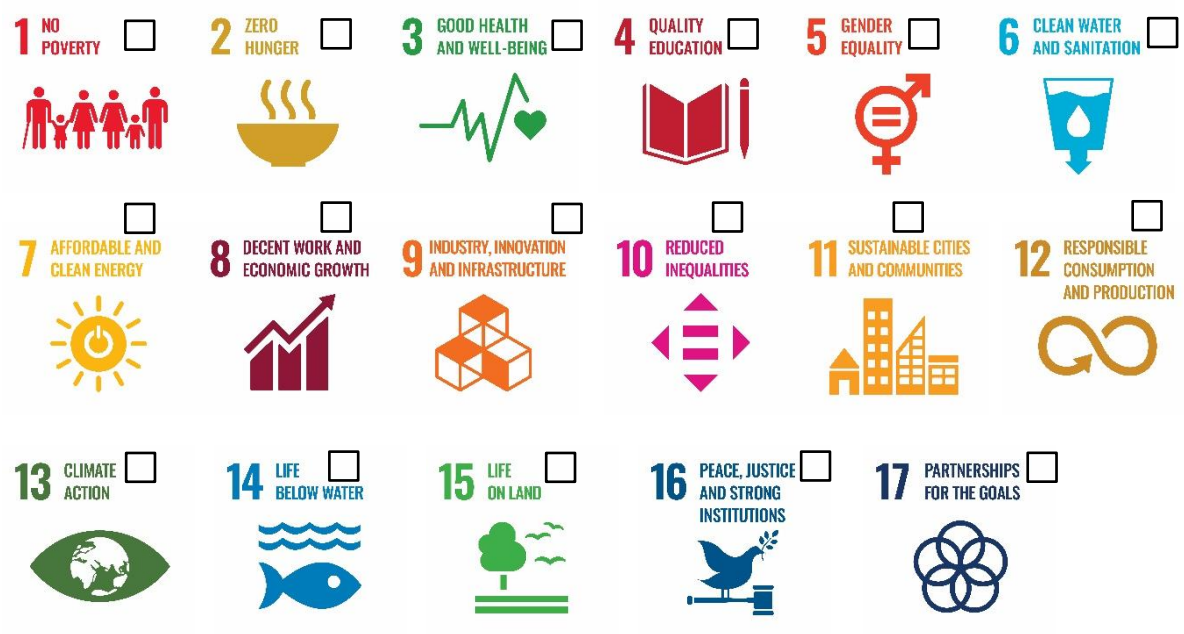
Related to Global and Local Sustainable Development Goals *(Select all possible options)*



Related to National Research Priorities *(Select all possible options)*

☐ Health & Wellness

☐ Sustainable Environment & Affordable Supply of Essential Needs

☐ Energy & Industrial Leadership

☐ Economies of the Future

Conform to NASA Technology Readiness Level (TRL) *(Select all possible options)*

Link to	TRL	Definition	Description
☐	1	Basic principles observed and reported	Scientific research begins, generating foundational knowledge for future applications
☐	2	Technology concept and/or application formulated	Initial ideas are developed; however, they remain speculative without experimental proof
☐	3	Analytical and experimental critical function and/or characteristic proof of concept	Active research leads to proof-of-concept models through laboratory studies and simulations
☐	4	Component and/or breadboard validation in a relevant environment	Components are integrated and tested together in a controlled environment
☐	5	System/component validation in a relevant environment	A breadboard system is tested in conditions that simulate real operational environments
☐	6	System/sub-system model or prototype demonstration in an operational environment	A fully functional prototype is demonstrated in conditions that reflect actual operational scenarios
☐	7	System prototype demonstration in an operational environment	A high-fidelity prototype is tested in the actual operational environment, demonstrating its capabilities
☐	8	Actual system completed and "flight qualified" through test and demonstration	The final product is tested and validated for its intended operational use, ensuring all systems are integrated
☐	9	Actual system flight proven through successful mission operations	The technology has been successfully deployed in missions, demonstrating its reliability and effectiveness

Source: *https://www.un.org/sustainabledevelopment/*
https://www.nasa.gov/