



# Abu Dhabi Polytechnic

## Students' Graduation Project Abstract

<b>Department:</b>	EMET	<b>Semester:</b>	Spring-2022
<b>Project Title:</b>	Smart Energy & Water Meter		
<b>Supervisor:</b>	Eng. Anand Gopalakrishnan		

### Abstract:

In this graduation project report, a smart wireless energy meter will be researched and tested in a house using a prototype the team will implement and design to work in different places in Abu Dhabi. This objective shows how a smart energy meter can be used to measure our daily electricity and water usage and provides live data on our phone that is connected to a live database, which can be accessed any time anywhere. The smart energy meter is gaining considerable attention in recent years and is now creating a future development for the next generation smart meters however more research is to be done, more extensive changes are required especially considering consumer usage. In this project, the team will design according to research smart energy meter fitted to home/facility producing a prototype. The literature review will be done on significant research related to energy meter-based devices and will compare the past and current developments. The design methodology will be done in selecting the most used material and parameters to showcase the prototype. As preliminary calculations, the design will be validated, showing the process of design and scale as it is what has been done. The prototype was validated to continue to the next phase of the project.