	RIGH UNIVE			Department of Mec Materials Engineeri
	What is the Aq			Aquaponics is a sustair to fertilize plants, while t production. Aquaponics o promising solution for th
 Define the second second	First First Planning: he scope and objective the specific goals and hics system using "sup	outcomes you want to		<image/> <image/>
1. Study aqua	and Learning: aponics principles and te with the essential comp		ow beds, plumbi	ng,
 beds, and f Determine resources. Skill Refin Leverage th Assign spectand interested and int	etailed aquaponics syster fish. the size and scale of the nement and Spe he existing expertise with cific roles and responsibi sts. This specialization wi member's skills in the pr Selection: propriate materials for th actors such as durability, tive Presentatio tively to prepare the con	e system based on available cialization: hin the team. lities to each individual booth thin the team will help of roject. he construction of tank and cost, and compatibility we have been based on available of the team.	ole space and based on expertis ptimize the use of nd grow bed. vith aquatic life.	se of
 combined ex 2. Collaborative research and and report. 3. Aim to finalise presentation 	tively to prepare the con xpertise and contribution rely structure the informa d initial project steps to d ize and polish both the p n on the last day of the fi	ns of all team members. ation, data, and findings of create a cohesive and info resentation and report fo	obtained from yo ormative presen	our
Examples of Coding, Modeling & calculatio	 volume_cubic_meters = volume_gallons * 0.00378541; % Calculate the total weight (w_total) in Newtons w_total = volume_cubic_meters * density_water_kg_per_m3 * 9.81; % Calculate the maximum deflection max_deflection = (5 * w_section * L^4) / (384 * E * I); fprintf('Tark Dimensions: %dx%dx%d meters - Volume: %d gallons\n', b, h, L, fprintf('Total weight of water in the tank: %.2f Newtons\n', w_total); fprintf('Weight of water per unit length (section): %.2f N/m\n', w_section); 	fx ≫ Workspace	<pre>#include #include #include #define E float vol DFRobot_E void setu Seria ec.be } void loog stati if(mi t t t t t t t t t t t t t t t t t t t</pre>	<pre></pre>
	MATLAB code calculations	for Tank deflectio		ater Conductivity Sensor Code in thon

ion for the future of agriculture.







Water Total Dissolved Solids Sensor Code in Python

Wind Turbine blade design