

مواصفات الجهاز المطلوب لمختبر قسم هندسة الطاقة المتجددة

No.	Item name	No. of items
1	<p>Wind power trainer</p> <ul style="list-style-type: none"> •Speed controlled (adjustable speed) fan. •Variable speed generator. •Integrated anemometer or wind speed sensor. •Horizontal axis turbine with ability to change blades orientation with respect to wind direction (pitch angle control). •Interchangeable rotor blades for horizontal axis turbine (6-10 blades). •Interchangeable rotor blades for horizontal axis turbine with different shapes is preferable (6-10 blades for each shape). •Yaw control with yaw angle sensor is preferable. •Resistive load. •Measurement instruments (wind speed meter, voltage meter, current meter, power meter, rpm meter). •Different vertical axis turbines like Darreius, Musgrove and Savonius turbines. 	1