



Nanomaterials Chemistry Research Lab




معمل أبحاث كيمياء المواد النانوية




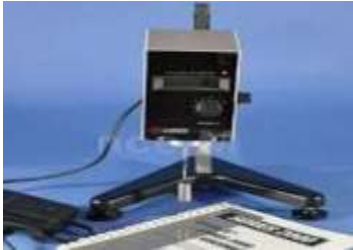
مدير المعمل : د. هناء أبوالمجد

Image	No.	Equipment
	1	<p>1. UV-spectrometer</p> <ul style="list-style-type: none"> • Model : JASCO V-630 • Manufacturing year: 2010 • Usages: Determination of the concentration of specific components of complex solutions
	1	<p>2. UV-lamp</p> <ul style="list-style-type: none"> • Model : UVP UVGL-55 • Manufacturing year: 2019 • Usages: Curing tool for polymer during the photopolymerization. It is also used for surface sanitation, sterilization in lab and inspection.

	<p>1</p>	<p>3. Biodiesel production Unit (reactor)</p> <ul style="list-style-type: none"> • Model : Local • Manufacturing year: 2019 • Usages: Preparation of the biodiesel from the cooking oil waste. It produces 60 liter of biodiesel per run. It can be also used as a reactor for production of any other material in a large scale.
	<p>1</p>	<p>4. Single Cylinder diesel Generator</p> <ul style="list-style-type: none"> • Model : APT-SDE-6500E • Manufacturing year: 2018 • Usages: Test the performance of a fuel
	<p>1</p>	<p>5. Overhead Electrical mechanical stirrer</p> <ul style="list-style-type: none"> • Model : OS20-S • Manufacturing year: 2015 • Usages: Stirring the reaction contents under various speed

	<p>1</p>	<p>6. Electrical analog homogenizer</p> <ul style="list-style-type: none"> • Model : HG-15A set • Manufacturing year: 2015 • Usages: Mixing the mixture components with high speed
	<p>1</p>	<p>7. Benchtop pH – meter</p> <ul style="list-style-type: none"> • Model : HI2211 • Manufacturing year: 2011 • Usages: Measuring the pH, temp, and the conductivity of a solution
	<p>1</p>	<p>8. Rotary Vacuum Evaporator</p> <ul style="list-style-type: none"> • Model: Buchi RE-111 • • Manufacture Year: 2006 • Usages: Distilling and purifying solvents of volumes from 50ml to 3L

	<p>2</p>	<p>9. Laboratory glassware dryers</p> <ul style="list-style-type: none"> • Manufacture Year: 1882 • Usages: Drying the laboratory glassware
	<p>1</p>	<p>10. Melting point measuring instrument</p> <ul style="list-style-type: none"> • Model : Baird & Tatlock • Manufacture Year: 1882 • Usages: Detecting the melting point of solid materials.
	<p>1</p>	<p>11. Universal Centrifuge</p> <ul style="list-style-type: none"> • Model : Harmonic series 78105N, A-2405 • Manufacture Year: 2010 • Usages: Separate the mixture components

	<p>1</p>	<p>12. Oven muffle</p> <ul style="list-style-type: none"> • Model : Local manufacture • Manufacture Year: 2019 • Usages: burning the materials to obtain pure oxides (as an example)
	<p>1</p>	<p>13. Vacuum oven</p> <ul style="list-style-type: none"> • Model : Local manufacture • Manufacture Year: 2006 • Usages: Drying the samples under vacuum
	<p>1</p>	<p>14. Ball Miller</p> <ul style="list-style-type: none"> • Model : Local manufacture • Manufacture Year: 2019 • Usages: Grinding and crushing any solid materials; glass, cement, sand, agricultural wastes
	<p>4</p>	<p>15. Ball Miller</p> <ul style="list-style-type: none"> • Model : Cannon LV2000 • Manufacture Year: 1990 • Usages: Measuring the viscosity of any fluid or viscous material.

	<p>1 16. Fume hood cabinet</p> <ul style="list-style-type: none"> • Model : Local manufacture • Manufacture Year: 2018 • Usages: Performing any experiments inside it to avoid any fume distribution.
	<p>1 17. Temperature & Humidity Control Cabinet</p> <ul style="list-style-type: none"> • Model : Local manufacture • Manufacture Year: 2018 • Usages: Saving the chemicals at certain (or zero) humidity, and at certain temperature. Additional information: Acrylic body desiccator dry cabinet with built-in Hygrometer/ Thermometer offer convenient dust and moisture-free storage. Providing low humidity environment using desiccant or inert gas.

	<p>1</p>	<p>18. Ultrasonic cleaning unit</p> <ul style="list-style-type: none"> • Model : Elmasonic S40H • Manufacture Year: 2016 • Usages: In cleaning, or solciting materials at different temperatures.
	<p>1</p>	<p>19. Digital balance</p> <ul style="list-style-type: none"> • Model : Kern- ABS 220-4N • Manufacture Year: 2016 • Usages: Weighting samples.
	<p>1</p>	<p>20. Water bath Shaker</p> <ul style="list-style-type: none"> • Model : SHWB -30 • Manufacture Year: 2016 • Usages: 30 Liters shaking water bath for samples mixing.