

**Equipment list of Faculty of Chemistry and Petrochemical Engineering  
Department of Chemistry**

<b>Row</b>	<b>Equipment</b>	<b>Field of application</b>	<b>Laboratory name</b>
1	Incubator	Providing and holding temperature (0-50) °C	Chemical Analysis
2	pHmeter	pH determination of solutions	Chemical Analysis
3	Electrolyze instrument	Electrical analysis of solutions	Chemical Analysis
4	Electric furnace	Providing temperature (0-1000 ) °C	Chemical Analysis
5	Analytical balance	Weighing to the nearest 0.1mg	Chemical Analysis
6	Hot water bath	Providing temperature (30-100) °C	Chemical Analysis
7	Ion meter	Measurement of cations and anions	Chemical Analysis
8	Mechanical homogenizer	Homogenizing high viscous solutions	Chemical Analysis
9	Flame Atomic Absorption Spectrometer	Determination of trace elements (mg/l)	Chemical Analysis
10	Instrument for brake fluid performance	Performance test of brake fluid	Chemical Analysis
11	Instrument for Corrosion in glassware	Corrosion test for engine coolants in glassware	Chemical Analysis
12	Freezing point instrument	Engine coolants freezing point determination	Chemical Analysis
13	Gas chromatograph/ FID	Analysis of hydrocarbon compounds	Chemical Analysis
14	Low temperature bath	Providing low temperature, minimum -40°C	Chemical Analysis
15	Karl fischer	Determination of water Content	Chemical Analysis
16	Low temperature bath	Providing low temperature (-25-0) °C	Chemical Analysis
17	Paraffin bath	Providing temperature (25-50) °C	Chemical Analysis
18	Sieve shaker	Particle size determination by sieve	Chemical Analysis
19	Balance	Weighing to the nearest 0.1g	Chemical Analysis
20	Conductometer	Electric conductivity measurement of solutions (0.1-19.99) µs/cm	Chemical Analysis
21	Color washing instrument	Determination of Paint and coating resistance to wash	Paint, Resin and Adhesive
22	Cupping tester	Determination of Paint and coating	Paint, Resin and

		resistance to cupping	Adhesive
23	Salt spray	Determination of Paint and coating resistance to corrosion	Paint, Resin and Adhesive
24	Mandrel bend tester	Determination of Paint and coating resistance to bending (4-13) mm	Paint, Resin and Adhesive
25	Brookfield viscometer	Viscosity determination	Paint, Resin and Adhesive
26	Krebs viscometer	Viscosity determination, (42-143) KU	Paint, Resin and Adhesive
27	Fordcup viscometer	Viscosity determination	Paint, Resin and Adhesive
28	Glossmeter	Determination of Paint and coating gloss at 20°, 60°, 45°, 75°, 85 °	Paint, Resin and Adhesive
29	Digital thickness gauge	Determination of Paint and coating film thickness	Paint, Resin and Adhesive
30	Reflectometer	Determination of Paint and coating light reflection (0-45)°	Paint, Resin and Adhesive
31	Impact test equipment	Determination of Paint and coating resistance to impact 1 kg	Paint, Resin and Adhesive
32	Centrifuge	Separation of phases (1000-14000) rpm	Paint, Resin and Adhesive
33	Potentiometer	Potentiometric titrations	Detergent, Cosmetic and Hygiene
34	UV-Vis Spectrophotometer	Absorption measurement (195-750) nm	Detergent, Cosmetic and Hygiene
35	Kjeldahl	Nitrogen determination	Detergent, Cosmetic and Hygiene
36	Performance instrument for detergent powders	Performance test for detergent powders	Detergent, Cosmetic and Hygiene
37	Tensiometer	Measurement of surface tension (1-100) mN/m	Detergent, Cosmetic and Hygiene
38	Lovibond colorimeter	Colorimetry	Detergent, Cosmetic and Hygiene
३९	Moisture analyzer	Moisture measurement of powders and pastes	Detergent, Cosmetic and Hygiene