

Capital Equipment currently available in the UAEU Chemistry Dept.:

Instrument	Specification
NMR	Varian Mercury 200 MHz NMR • With VNMR 6.1C software Varian 400 MHz NMR • solid probe. Bench top proton NMR
GC-MS	Finnigan TRACE MS EI 250 • Trace MS • Model EI250
Atomic absorption	Unicam Solaar 969 • TJA solutions Software • Two units
Magnetic Susceptibility balance	Sherwood Scientific MSB-AUTO • Xv in 4 ranges from 0 to +/- 1.999 x 10⁻⁷, x 10⁻⁶, x10⁻⁵, x10⁻⁴ c.g.s. units • Two units available
Centrifuge	Sorvall RC-28 S • refrigerated • superspeed • Two units available
Low pressure Liquid chromatograph	Knauer LC • Two units available
Surface area analyzer	Quanta chrome AUTOSORB • 1-MP/LP Quanta chrome AUTOSORB • NOVA 1000
Infrared spectrometers	Nexus Thermo Nicolet 470 FT-IR • Nicolet E.S.P with OMINIC software and CONTINUμM Thermo Nicolet microscope Nexus Thermo Nicolet 670 FT-IR • Nicolet E.S.P with OMINIC software Shimadzu FTIR-8101 • He-Ne 633 nm < 0.5 mW class II LAZER product with DR-8001 Shimadzu
UV-VIS-NIR	Shimadzu UV-3600
Flame photometer	Jenway PEP 7 Three units available
Calorimeters	Parr 2901 EE • Plain jacket oxygen pump calorimeter • Ten units available
Coulometer	Scribner 279A

	- Digital coulometer - Ten units available
UV / Visible spectrophotometers	Varian Cary 50 - UV-Vis spectrophotometer with Varian software - Four units available Shimadzu UV-2101PC - UV-Vis scanning double beam spectrophotometer, with thermostated cell Spectronic 20 D+ - Digital UV-Vis single beam spectrophotometer - Sixteen units available Agilent 8453 - UV-Vis single beam spectrophotometer with diode array detector and pc - Two units available Shimadzu UV-VIS - Digital UV-Vis single beam spectrophotometer - Eight units available Varian Cary ECLIPSE - Fluorescence spectrophotometer with varian software - Two units available
Stopped flow spectrophotometer	BIO-LOGIC MOS-250 microprocessor - Fast reactions spectrophotometer - rapid mixing system SFM-400(BIO-LOGIC)
Gas Chromatograph	Varian 3800 GC - FID and ECD detectors - varian software Philips PYE Unicam PU 4500 - Gas chromatograph SRI 310C Educational gas chromatograph
HPLC	Agilent 1100 HPLC - HPLC chromatograph - auto sampler - fluorescence and UV diode array detector
HPLC-MS	Agilent 1100 HPLC variable wavelength detector and ion trap MS detector
HPLC-MS	Water ZQ MM-1 HPLC chromatograph with dual wavelength detector and single quad MS detector
GPC	Agilent 1100 HPLC variable wavelength and refractive index detectors Varian PL-GPC 50 Light scattering
Ion Chromatography	Dionex , ICS-2000
Polarimeter	Kruss P 3001 Automatic digital polarimeter, Germany

	Two units available
Circular dichroism	Jasco 815 spectropolarimeter
UV-VIS-NIR	Shimadzu, model 3600
Capillary Electrophoresis	Agilent J-1600
TGA-DSC	Shimadzu
CHNS Analyzer	LECO, TRUSPEC, Micro
Deep Freezers	Thermo ULT 1786-6-V45 Claimas, CVF 300/80
Dryer-Freez	Letstar, Cryodos, Cryoos-50 Two units available
Ultra centrifuge	Sorvall, RC-285
Bioanalyzer	Agilent, 2100 Bioanalyzer G29386
Multilable reader	Emphor / PerkinElmer, 2030, victortm