



BIL	INSTRUMENTS	CODE	BRAND/ MODEL	PARAMETER	ANALYSIS SERVICES CHARGES (Tarikh dikemaskini: 1 Januari 2025)		
					INTERNAL USER (UMS)	EXTERNAL USER (GOVERNMENT)	EXTERNAL USER (NON-GOVERNMENT)
1	FIELD EMISSION SCANNING ELECTRON MICROSCOPE (FESEM)	FESEMJL01	JEOL JSM-7900F	Per Sample	RM 150.00	RM 300.00	RM 450.00
2	FIELD EMISSION SCANNING ELECTRON MICROSCOPE + EDX	FESEMJL02	JEOL JSM-7900F	Per Sample	RM 200.00	RM 360.00	RM 540.00
3	SPUTTER COATER	SPUTTQR01	QUORUM	Per Sample	RM 20.00	RM 25.00	RM 45.00
4	FOURIER TRANSFORM INFRARED 2D	IR2DPE01	PERKIN ELMER FRONTIER	Per Sample	RM 50.00	RM 80.00	RM 100.00
5	ATOMIC FORCE MICROSCOPE	AFMBR02	BRUKER DIMENSION ICON	Per Sample	RM 200.00	RM 250.00	RM 300.00
6	X-RAY DIFFRACTION (XRD)	XRD06	RIGAKU SMARTLAB	Per Sample	RM 70.00	RM 150.00	RM 220.00
		XRD06	RIGAKU SMARTLAB	Per Sample			
7	INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY (ICP-MS)	ICPMSPE01	PERKIN ELMER NEXION 200	Per Sample	RM 180.00	RM 360.00	RM 600.00
8	GAS CHROMATOGRAPHY - MASS SPECTROMETRY (GC-MS)	GCM 001	AGILENT 5975C	Per Vial	RM 80.00	RM 200.00	RM 300.00
9	HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (SEMI-PREP)	HPLCSH01	SHIMADZU LC6AD	Per Sample	RM 30.00	RM 80.00	RM 150.00
10	TOTAL ORGANIC CARBON (TOC) ANALYZER	TOCEL01	ELEMENTAR VARIO	Per Sample	RM 50.00	RM 80.00	RM 120.00
11	CHNS ANALYZER	CHNSEL01	ELEMENTAR VARIO MACRO TUBE	Per Sample	RM 60.00	RM 120.00	RM 220.00
12	ATOMIC ABSORPTION SPECTROSCOPY (AAS)	AASPE02	PERKIN ELMER PINAACLE 900	Per Element/Per Sample *To calculate [no. of elements] x [no. of samples] x charge	RM 20.00	RM 30.00	RM 40.00
13	BIOREACTOR (3L)	BIORRIN01	INFORS MINIFORS 2	Per Day	RM 50.00	RM 120.00	RM 180.00

14	BIOREACTOR (10L)	BIORRIN02	INFORS MINIFORS 5	Per Day	RM 100.00	RM 300.00	RM 450.00
15	ULTRAVIOLET VISIBLE SPECTROPHOTOMETRY	UVVISAG01	AGILENT CARY 60	Per Cuvette	RM 3.00	RM 5.00	RM 10.00
16	FAT EXTRACTION SYSTEM	FETGH01	GERHARDT	Per Sample	RM 10.00	RM 30.00	RM 40.00
17	PROTEIN ANALYZER	PROTGH01	GERHARDT	Per Run (Max 8 Tubes)	RM 80.00	RM 180.00	RM 270.00
18	FREEZE DRYER	FRZEDLC2	LABCONCO	Per Day (Max 25 Samples)	RM 20.00	RM 30.00	RM 50.00
19	FIBRE ANALYZER	FIBERGH1	GERHARDT	Per Run (Max 9 Tubes)	RM 100.00	RM 150.00	RM 200.00
20	ROTARY EVAPORATOR	EVPREY01	EYELA N1300E	Per Litre (Minimum 1 Litre)	RM 20.00	RM 72.00	RM 108.00
21	CO ₂ INCUBATOR	INCUBES01	ESCO	Per Day	RM 20.00	RM 50.00	RM 80.00
22	LIQUID NITROGEN GENERATOR	LNG 001	IMT	Per Litre (Minimum 1 Litre)	RM 15.00	RM 18.00	RM 20.00
23	GRINDER	GRDERIK01	IKA MF10	Per kg (Min 1kg)	RM 5.00	RM 15.00	RM 20.00
24	HIGH PERFORMANCE THIN LAYER CHROMATOGRAPHY (HPTLC)	HPTLCCG01	CAMAG	Per Sample	RM 80.00	RM 200.00	RM 250.00
25	MICROPLATE READER	MICPTTS01	THERMO SCIENTIFIC	Per Plate	RM 20.00	RM 50.00	RM 80.00
26	MICROWAVE DIGESTER	DGSTPE01	PERKIN ELMER	Per Sample	RM 30.00	RM 50.00	RM 70.00
27	BET ANALYZER	BETMM01	MICROMERIT ICS	Per Sample	RM 80.00	RM 300.00	RM 400.00
28	X-RAY PHOTOELECTRON SPECTROSCOPY (XPS)	XPS 001	ULVAC PHI	Per Sample (Survey Scan)	RM 250.00	RM 350.00	RM 450.00
		XPS 002	ULVAC PHI	Per Sample (Survey Scan + Narrow Scan)	RM 350.00	RM 450.00	RM 550.00

29	CENTRIFUGE	-	EPPENDORF 5804 R	Per Day	RM 22.00	RM 26.40	RM 26.40
30	INCUBATOR	INCUBES02	ESCO ISOTHERM IFA-110-8	Per Day	RM 10.00	RM 12.00	RM 12.00
31	AUTOClave	CLA01	TOMY FLS-1000	Per Run	RM 30.00	RM 36.00	RM 36.00
32	BIOSAFETY CABINET	BSCES02	AIRSTREAM ESCO CLASS II BSC AC2-4S8-NS	Per Day	RM 33.00	RM 39.60	RM 39,60
33	LAMINAR AIR FLOW CABINET	LFCEs01	ESCO AIRSTREAM® LHG-4BG-F8	Per Day	RM 25.00	RM 30.00	RM 30.00
34	FUMEHOOD	FUMEFH03	HAMILTON LABORATORY SOLUTIONS HAMILTON CONCEPT	Per Day	RM 40.00	RM 48.00	RM 48.00
35	FURNACE	FURCA01	CARBOLITE GERO RHF 1500	Per Day	RM 15.00	RM 20.00	RM 20.00
36	OVEN	OVEN01	• ECOCELL LSIS-B2V EC55 • MEMMERT IUN55 • ESCO ISOTHERM OFA-110-8	Per Day	RM 15.00	RM 18.00	RM 18.00
37	PORTABLE MULTI PARAMETER	-	THERMO SCIENTIFIC EUTECH CYBERSCAN PCD 650	Per Sample (PH/TEMP)	RM 8.00	RM 10.00	RM 10.00
38	PORTABLE MULTI PARAMETER	-	THERMO SCIENTIFIC EUTECH CYBERSCAN PCD 650	Per Sample (SALINITY/DO/EC)	RM 12.00	RM 15.00	RM 15.00