



BIL	INSTRUMENTS	CODE	BRAND/ MODEL	PARAMETER	ANALYSIS SERVICES CHARGES (Tarikh dikemaskini: 30 Jun 2025)		
					INTERNAL USER (UMS)	EXTERNAL USER (GOVERNMENT)	EXTERNAL USER (NON-GOVERNMENT)
1	FIELD EMISSION SCANNING ELECTRON MICROSCOPE (FESEM)	FES 001	JEOL JSM-7900F	Per Sample	RM 150.00	RM 300.00	RM 450.00
2	FIELD EMISSION SCANNING ELECTRON MICROSCOPE + EDX	FES 001	JEOL JSM-7900F	Per Sample	RM 200.00	RM 360.00	RM 540.00
3	SPUTTER COATER	SPU 002	QUORUM	Per Sample	RM 20.00	RM 25.00	RM 45.00
4	FOURIER TRANSFORM INFRARED 2D	FTI 001	PERKIN ELMER FRONTIER	Per Sample	RM 50.00	RM 80.00	RM 100.00
5	ATOMIC FORCE MICROSCOPE	AFM 001	BRUKER DIMENSION ICON	Per Sample	RM 200.00	RM 250.00	RM 300.00
6	X-RAY DIFFRACTION (XRD)	XRD 001	RIGAKU SMARTLAB	Per Sample	RM 70.00	RM 150.00	RM 220.00
		XRD 002	RIGAKU SMARTLAB	Per Sample			
7	INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY (ICP-MS)	ICP 001	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)	HPLC 001	SHIMADZU LC6AD	Per Sample	RM 30.00	RM 80.00	RM 150.00
10	TOTAL ORGANIC CARBON (TOC) ANALYZER	TOC 001	ELEMENTAR VARIO	Per Sample	RM 50.00	RM 80.00	RM 120.00
11	CHNS ANALYZER	CHN 001	ELEMENTAR VARIO MACRO TUBE	Per Sample	RM 60.00	RM 120.00	RM 220.00
12	ATOMIC ABSORPTION SPECTROSCOPY (AAS)	AAS 001	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	FRAGMENT ANALYZER	FRA 001	ADVANCED ANALYTICAL	Per Sample	RM 25.00	RM 150.00	RM 250.00
14	BIOREACTOR (3L)	BIO 001	INFORS MINIFORS 2	Per Day	RM 50.00	RM 120.00	RM 180.00

15	BIOREACTOR (10L)	BIO 002	INFORS MINIFORS 5	Per Day	RM 100.00	RM 300.00	RM 450.00
16	ULTRAVIOLET VISIBLE SPECTROPHOTOMETRY	VIS 001	AGILENT CARY 60	Per Cuvette	RM 3.00	RM 5.00	RM 10.00
17	FAT EXTRACTION SYSTEM	FAT 001	GERHARDT	Per Sample	RM 10.00	RM 30.00	RM 40.00
18	PROTEIN ANALYZER	PRO 001	GERHARDT	Per Run (Max 8 Tubes)	RM 80.00	RM 180.00	RM 270.00
19	FREEZE DRYER	FRE 001	LABCONCO	Per Day (Max 25 Samples)	RM 20.00	RM 30.00	RM 50.00
20	FIBRE ANALYZER	FIB 001	GERHARDT	Per Run (Max 9 Tubes)	RM 100.00	RM 150.00	RM 200.00
21	ROTARY EVAPORATOR	ROT 001	EYELA N1300E	Per Litre (Minimum 1 Litre)	RM 20.00	RM 72.00	RM 108.00
22	CO INCUBATOR	CO2 001	ESCO	Per Day	RM 20.00	RM 50.00	RM 80.00
23	LIQUID NITROGEN GENERATOR	LNG 001	IMT	Per Litre (Minimum 1 Litre)	RM 15.00	RM 18.00	RM 20.00
24	GRINDER	GRI 001	IKA MF10	Per kg (Min 1kg)	RM 5.00	RM 15.00	RM 20.00
25	HIGH PERFORMANCE THIN LAYER CHROMATOGRAPHY (HPTLC)	HPT 001	CAMAG	Per Sample	RM 80.00	RM 200.00	RM 250.00
26	MICROPLATE READER	MIC 001	THERMO SCIENTIFIC	Per Plate	RM 20.00	RM 50.00	RM 80.00
27	MICROWAVE DIGESTER	DIG 001	PERKIN ELMER	Per Sample	RM 30.00	RM 50.00	RM 70.00
28	BET ANALYZER	BET 001	MICROMERIT ICS	Per Sample	RM 80.00	RM 300.00	RM 400.00
29	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

30	CENTRIFUGE		EPPENDORF 5804 R	Per Day	RM 22.00	RM 26.40	RM 26.40
31	INCUBATOR		ESCO ISOTHERM IFA-110-8	Per Day	RM 10.00	RM 12.00	RM 12.00
32	AUTOClave	CLA 01	TOMY FLS-1000	Per Run	RM 30.00	RM 36.00	RM 36.00
33	BIOSAFETY CABINET	BSCES 02		Per Day	RM 33.00	RM 39.60	RM 39,60
34	LAMINAR AIR FLOW CABINET	LFCEs 01	ESCO AIRSTREAM® LHG-4BG-F8	Per Day	RM 25.00	RM 30.00	RM 30.00
35	FUMEHOOD	FUMEFH 03	HAMILTON LABORATORY SOLUTIONS HAMILTON CONCEPT	Per Day	RM 40.00	RM 48.00	RM 48.00
36	FURNACE	FURCA 01	CARBOLITE GERO RHF 1500	Per Day	RM 15.00	RM 20.00	RM 20.00
37	OVEN	OVEN 01	• ECOCELL LSIS-B2V EC55 • MEMMERT IUN55 • ESCO ISOTHERM OFA-110-8	Per Day	RM 15.00	RM 18.00	RM 18.00
38	PORTABLE MULTI PARAMETER		THERMO SCIENTIFIC EUTECH CYBERSCAN PCD 650	Per Sample (PH/TEMP)	RM 8.00	RM 10.00	RM 10.00
39	PORTABLE MULTI PARAMETER		THERMO SCIENTIFIC EUTECH CYBERSCAN PCD 650	Per Sample (SALINITY/DO/EC)	RM 12.00	RM 15.00	RM 15.00