


**SERVICE CHARGE FOR FACILITIES AVAILABLE
 INSTITUTE OF RESEARCH MANAGEMENT & SERVICES**

NO	FACILITIES	TEST/SERVICES	Price (RM) without GST	
			EXTERNAL USER	
1	Nuclear Magnetic Resonance (NMR 600MHz)	- 1H & 13 C - 2D Analysis	Package A	Per Sample
			600.00 (Limit 12 hours)	100.00 (Limit 1hour)
2	Sample Preparation	- Carbon/gold Coating	60.00 /sample	
		- Chemical treatment/ CPD	100.00 /sample	
3	GCMS	- Compositional Test (Scan & SIM Mode using RTX-5 column)	100.00/sample	
4	Confocal Laser Microscope	- Fluorescent Imaging	100.00/hour	
		- Life cell imaging (time lapse)	200.00/hour/sample	
5	Field Emission Scanning Electron Microscope (FESEM)	- Imaging (Microstructure/ Nanostructure)	High/ Low Vacuum	ESEM/WetStem
			360.00/sample	500.00/sample
			Package FESEM + EDX	
			460.00/sample	NA
			FESEM : max 5 images , EDX (max 3 spectrum /mapping / linescan)	
6	Energy Dispersive X-ray (EDX)	- Compositional	Elemental / Mapping	
			200.00 /sample (max 3 spectrum /mapping /linescan)	
7	Surface Area Analyzer (BET)	- Surface Area - Pore Volume - Pore Size Distribution	Mesopore MS ISO/IEC 17025	Micropore
			300.00/sample	500.00/sample
8	Differential Scanning Calorimeter (DSC)	- Heat Flow Analysis	300.00/sample	
		- Specific heat capacity (Cp)	400.00/sample	
9	Simultaneous Thermal Analyzer (STA)	- Weight Loss - Melting Curves	300.00/sample	
10	Dynamic Mechanical Analyzer (DMA)	- Tensile / Tension analysis - Single / dual cantilevel	200.00/sample	
11	DNA Sequencer	- DNA Sequencing	Package A	Per Hours
			Buy 10 hours (Free 1 hour)	200/hour
12	Real Time PCR	- Quantitative PCR Application	Package A	Per Run
			Buy 5 runs (Free 1 run)	60.00/run
13	Particle Image Velocimetry (PIV)	- Vector & Velocity (2D & 3D analysis)	From 100.00/slot (limit 4 hours)	

14	LCMS-QTOF	- Qualitative - Mass analyzer (MS & MS-MS)	Package A	Per Hour	C18 Column	
			500.00 (6 hours)	100.00/hour	100.00/day	
15	UHPLC	- Qualitative	50.00/hour			
16	Ellipsometer	- Change in polarization - Optical constant - Film thickness	50.00/sample (max 5 spot per sample)			
17	Rheometer	- Viscosity - Viscoelastic	100.00/sample			
18	Tensiometer	- Surface and interfacial tension - Powder wettability	100.00/sample			
19	-80°C Freezer	- Storage samples	Per Box		Per Compartment	
			Small HxWxL: 5x17x17 cm	Medium HxWxL: 10x17 x17 cm	Large HxWxL: 15x17 x17 cm	Extra Large HxWxL: 25x60 x60 cm
			60.00 per month	80.00 per month	120.00 per month	400.00 per month
20	Portable autoclave	-Sterilizing materials	Package A		Per hour	
			Buy 10 hours (Free 1 hour)		Rm10/hour	

*Outsider please consults IPPP Science Officer at 603-7967 4619 or email lab_infra@um.edu.my for further details on charging rate

*All prices are subject to 0% GST rate starting 01 Jun 2018

Updated : 06/01/2021- syida