

BORANG PERMOHONAN / REQUEST FORM

1. Sila lengkapkan Borang Permohonan untuk perkhidmatan analisis/ bayaran pukal/ sebut harga.
Please fill in the Request Form for analytical services/bulk payment/quotation.
2. Sila rujuk lampiran untuk senarai harga, terma dan syarat.
Please refer to the attachment for price list, terms and conditions.
3. Borang yang telah lengkap diisi perlu di e-mel ke **pegawai makmal yang bertanggungjawab**.
Please send the complete form to lab officer incharge.
4. Semasa penghantaran sampel, sila bawa Borang Permohonan asal atau Bukti Pembayaran untuk rujukan pegawai.
Please bring the original Request Form or Payment Receipt for Officer's reference.
5. Sampel yang telah siap dianalisis perlu diambil semula atau akan dilupuskan jika tidak dituntut lebih dari 2 minggu. *Samples need to be collected after respective analysis or will be disposed after 2 weeks.*

A. Maklumat Pemohon / Applicant Information			
Nama / Name			
Nombor Matrik / Matric Number			
Alamat Jabatan / Department Address			
Nombor Telefon / Telephone No.		E-mel / Email	
Kategori / Category (Sila Tanda/ Please Tick)	IMEN	<input type="checkbox"/>	Kakitangan UKM / UKM Staff
	Luar UKM / Non-UKM	<input type="checkbox"/>	

B. Maklumat Analisis/ Analysis Information				
<small>Satu jenis Instrumen sahaja / One instrument type only</small>				
No.	Kod Analisis / Analysis Code	Bilangan / No. of Sample	Keterangan Sampel / Sample Details (Method, temperature, etc.)	Kod Promosi / Promotional Code (If applicable)

C. Bayaran Pukal (jika berkaitan)/ Bulk Payment (if applicable)	
Jumlah / Amount (RM)	Catatan / Remarks

D. Pengesahan/ Acknowledgement	
Tandatangan pemohon / Applicant Signature:	Tandatangan Ketua Projek & Cop Rasmi / Project Leader Signature & Official Stamp:
Kod Peruntukan (Pegguna UKM) / Project Code (UKM User):	
Kos Analisis / Analysis Cost:	
Tarikh / Date:	

E. Penerimaan / Acceptance	
Tandatangan Pegawai Makmal / Signature Lab Officer:	
Cop / Stamp:	
Tarikh / Date:	

TERMA DAN SYARAT / TERMS AND CONDITIONS

Perkara	Terma & Syarat
Kod Promosi (jika berkaitan) / Promotional Code (if applicable)	<p>Kod Promosi ini hanya tertakluk kepada promosi semasa sahaja dan hanya sah bagi penghantaran sampel dalam tempoh 1 tahun dari tarikh borang diterima. <i>This Promotion Code is only applicable during a promotion period and the samples need to be submitted within 1 year after the date of application.</i></p> <p>Pengguna boleh melayari laman sesawang rasmi IMEN di https://www.ukm.my/imen untuk maklumat lanjut berkenaan sebarang promosi. <i>Please refer to our official website https://www.ukm.my/imen for further information regarding any promotion.</i></p>
Bayaran balik / Bulk Payment	<p>Pengguna boleh membuat akaun pukal secara pra-pembayaran untuk sebarang perkhidmatan yang ditawarkan. Tempoh aktif akaun pukal adalah dalam masa 2 tahun dari tarikh permohonan. <i>Users can set up a pre-paid bulk account for any services offered. The account is active within 2 years after the date of application.</i></p> <p>Pengguna boleh memanjangkan tempoh aktif akaun dengan menambah bayaran seterusnya. Setelah tamat tempoh aktif, baki tidak akan dipulangkan. <i>Users can extend the account's active period by adding further payment. In the event of account expiry, any remaining amount in the account will not be refunded.</i></p> <p>Semasa penghantaran sampel, sila bawa bersama salinan Borang Permohonan yang telah diluluskan beserta maklumat sampel analisis pada bahagian 8. Maklumat Analisis. <i>During sampel submission, please bring a copy of the approved application form with added information regarding the sampel / analysis at section B. Analysis Information.</i></p>

Alat/Instrument	Kod/ Code	Analisis/Analysis	Kos/Cost		
			IMEN	UKM	Non-UKM
Semiconductor Lab (Anezah)					
Macro-PL	IMN-PLRT	Room temperature emission	RM50/sample	RM150/sample	RM200/sample
	IMN-PLLT	Low temperature emission	RM100/sample	RM200/sample	RM300/sample
Lab-on-chip (Hayati)					
Plasma treatment	IMN-PT01	Argon/oxygen	RM50/sample	RM100/sample	RM150/sample
IV/CV 4 point probe system	IMN-4PP01	IV/CV measurement	RM50/sample	RM100/sample	RM150/sample
Impedance analyzer	IMN-IA	Plug-in impedance analyzer	RM70/sample	RM100/sample	RM150/sample
MEMS/NEMS Lab (Faizal)					
FESEM SIGMA	IMN-FESEM	Field emission electron scanning microscope	RM120/sample	RM180/sample	RM250/sample
EBL SYSTEM	IMN-EBL	Electron beam lithography	RM180/hour	RM250/hour	RM300/hour
Shaker LDS V406	IMN-SHK	Shaker	RM120/sample	RM150/sample	RM200/sample
XeF ₂ dry etching system	IMN-XEF2	Etches Si, a-Si, Mo, Ta	RM270/hour	RM320/hour	RM350/hour
Laser displacement meter	IMN-DISP	MEMS structure displacement	RM100/sample	RM150/sample	RM200/sample
EBL spin coater CY-SP4	IMN-SC01	Spin coat EBL resist	RM70/sample	RM100/sample	RM150/sample
Plasma sputtering coater	IMN-SPUT01	Aluminium	RM150/sample	RM200/sample	RM250/sample
LCR Meter 6020	IMN-LCR01	Impedance/capacitance/ inductance	RM70/sample	RM100/sample	RM150/sample
MINES lab (Shafii)					
Altera Terasic DE1	IMN-ALT	SoC Development Board (2015)	RM150/day	RM300/day	RM600/day
LeCroy Wavestation 2012	IMN-FG	Function Generator (2014)	RM50/day	RM100/day	RM200/day
Textronix oscilloscope	IMN-OSC	Oscilloscope	RM120/day	RM240/day	RM500/day
Nanophotonic Lab (Hayati)					
Surface Plasmon Resonance	IMN-SPR1	Measures molecular interactions	RM100/sample	RM120/sample	RM150/sample
	IMN-SPR2	Using SPR+gold slide	RM800/sample	RM820/sample	RM850/sample
Digital Viscometer	IMN-VISCO	9 ml/sample	RM100/sample	RM120/sample	RM150/sample
CNC Machine	IMN-CNC	Please provide design	RM100/sample additional hour – RM50	RM120/sample additional hour – RM60	RM150/sample additional hour – RM70
Thin Film Lab (Faizal)					
E-beam/Thermal Evaporator	IMN-EBEAM	Al, Ag, Cu	RM150/process	RM250/process	RM350/process
Atomic Force Microscopy	IMN-AFM	Surface topography	RM70/sample	RM160/sample	RM260/sample
Hall Effect	IMN-HALL	Conductivity	RM60/sample	RM100/sample	RM150/sample
Picoammeter/tapping solenoid (Isc/Voc)	IMN-TAP	Applying force on thin film and measure generated current/voltage	RM50/sample	RM100/sample	RM250/sample
OHFEL Lab (Dr Siti Nurfadhliana)					
UV-Vis Spectrophotometer	IMN-UV	Absorbance/ Transmittance/ Reflectance (Solid/Liquid)	RM25/sample	RM50/sample	RM100/sample

Solar simulator Newport Oriel	IMN- SIMSOL	Natural sunlight simulator	RM70/sample	RM150/sample	RM250/sample
Spectrometer Scientific Grade	IMN- Spect	Raman measurement at 785 nm	RM70/sample	RM150/sample	RM300/sample
Luminescence Spectrometer	IMN-LS	Excitation/Emission	RM25/sample	RM50/sample	RM100/sample
Potentiostat	IMN-EIS	Electrochemical impedance spectroscopy (EIS)	RM70/sample	RM150/sample	RM300/sample
	IMN-EC	IV/ CV electrochemical	RM35/sample	RM70/sample	RM140/sample
MIPAC Lab (Saiful)					
Instron 5564	IMN- TENSILE	Tensile test (subjected to parameter analysis)	RM40/ analysis	RM50/ analysis	RM100/ analysis
Nanoindenter	IMN- INDENT	Nanoindentation (subjected to parameter analysis)	RM40/indent	RM50/indent	RM100/indent
IFM (2D Analysis)	IMN- IFM2D	Infinite focus measurement (subjected to parameter analysis)	RM50/ analysis	RM75/ analysis	RM150/ analysis
IFM (3D Analysis)	IMN- IFM3D	Infinite focus measurement (subjected to parameter analysis)	RM75/ analysis	RM150/ analysis	RM300/ analysis
Digital Microscope	IMN- OM01	Microscopy observation	RM30/ analysis	RM50/ analysis	RM100/ analysis
C-electronics Lab (Saiful)					
Four point probe station	IMN- 4PP02	Measure IV	RM50/sample	RM100/sample	RM150/sample
Cryogenic Probe Station	IMN- 4PPLT	Measure IV	RM100/sample	RM150/sample	RM300/sample
Tabletop Centrifuge	IMN- TC01	4000rpm isolation / separation Process	RM40/hour	RM50/hour	RM100/hour
Horizontal Tube Furnace	IMN- FURN01	Annealing Process	RM100/hour	RM150/hour	RM200/hour
Chemical Vapor Deposition Tube Furnace	IMN- CVD01	Synthesis Graphene (Gas Ar & H ₂)	RM150/ process	RM200/ process	RM300/ process
Chemical Vapor Deposition Tube Furnace	IMN- CVD02	Synthesis Graphene (Gas CH ₄ & Ar H ₂)	RM150/ process	RM200/ process	RM300/ process
Chemical Vapor Deposition Tube Furnace	IMN- CVD03	Synthesis GaO (Gas N ₂ & O ₂)	RM150/ process	RM200/ process	RM300/ process
Chemical Vapor Deposition Tube Furnace	IMN- CVD04	Synthesis MOS ₂ (Gas Ar 90% H ₂ 10%)	RM150/ process	RM200/ process	RM300/ process
Artificial Kidney Lab (Shafii)					
FDM 3D Printing	IMN- 3DP01	minimum RM10	RM0.6/gram	RM1.0/gram	RM2.0/gram
MSLA 3D Printing	IMN- 3DP02	minimum RM10	RM1.0/gram	RM2.0/gram	RM4.0/gram
Microfluidic Lab (Dr Siti Nurfadhlina)					
Fluorescence Microscope	IMN-FM	Molecules analysis	RM120/sample	RM150/sample	RM180/sample
Fluorescence Microscope	IMN-FM2	Molecules analysis	RM150/sample	RM170/sample	RM200/sample

High speed camera	IMN-HSC	Equipment	RM150/sample	RM170/sample	RM200/sample
RF Plasma Surface Treatment	IMN-PT02	Surface treatment/ cleaning/surface modification in oxygen plasma	RM20/hour	RM40/hour	RM80/hour
Microenergy Lab (Izzah)					
Portable Surface Plasmon Resonance	IMN-SPR3	Measures molecular interactions	RM100/sample	RM120/sample	RM150/sample
	IMN-SPR4	Using SPR+gold slide	RM200/sample	RM270/sample	RM350/sample
Yixist Visible Spectrometer	IMN-Vis	Absorbance/ Transmittance/ Reflectance (thin film)	RM25/sample	RM45/sample	RM65/sample
Centrifuge	IMN-TC02	Separation of liquid material	RM20/hour	RM30/hour	RM40/hour
Spin Coater	IMN-SC02	Polymer and carbon-based material	RM15/hour	RM20/hour	RM25/hour
Cleanroom Lab (Anezah)					
SEM (JEOL)	IMN-SEM	Scanning electron microscope	RM50/sample	RM100/sample	RM150/sample
Thin Film Mapping	IMN-MAP	SiO ₂ and Si ₃ N ₄	RM30/sample	RM60/sample	RM90/sample
Microscope (Olympus)	IMN-OM02	With depth analyzer	RM50/hour	RM100/hour	RM150/hour
PECVD	IMN-PECVD	SiO ₂ and Si ₃ N ₄	RM100/hour	RM150/hour	RM200/hour
DC/RF magnetron sputter	IMN-SPUT02	Mo, Ta, ZnO, Si, SiO ₂ , Al, Cu, Ti	RM100/hour	RM150/hour	RM200/hour
Gold sputter coater	IMN-SPUT03	Au (minimum 50nm)	RM100/jam	RM150/jam	RM200/jam
Oxidation furnace	IMN-FURN02	SiO ₂ wet oxidation (all in) Anneal (all in)	RM150/hour	RM200/hour	RM250/hour
RIE	IMN-RIE	Etch Si, SiO ₂ and Si ₃ N ₄	RM100/hour	RM150/hour	RM200/hour
Karl-Suss MJB Mask Aligner	IMN-KARL	UV exposure	RM50/hour	RM75/hour	RM100/hour
Midas Single Side Mask Aligner	IMN-MIDAS	UV exposure	RM50/hour	RM75/hour	RM100/hour
Spin Coater	IMN-SC03	SU8, PDMS	RM15/sample	RM20/sample	RM25/sample
Programmable Spin Coater	IMN-SC04	Photoresist	RM15/sample	RM20/sample	RM25/sample
LCR meter	IMN-LCR02	Impedance/capacitance/ inductance	RM50/sample	RM100/sample	RM150/sample
Keithley semiconductor analyzer	IMN-4PP03	Semiconductor characterization/IV/CV	RM50/hour	RM100/hour	RM150/hour
Corona discharge	IMN-CORO	Corona treatment	RM20/sample	RM40/sample	RM80/sample
Cleaning (wet bench)	IMN-CLEAN	DI water, IPA, methanol, acetone, ethanol, ultrasonic bath	RM20/hour	RM60/hour	RM100/hour
Wet etching process (wet bench)	IMN-ETCH	Acids and bases	RM20/hour	RM60/hour	RM100/hour
Diamond cutter	IMN-WAFER	Wafer plus cutting	RM20/wafer	RM40/wafer	RM80/wafer