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NMR USER APPLICATION

NN	/IR	Chemistry user		UM User	Outside user
Type o	of user	Registered user	Non-registered user	Non-registered user	Non-registered user
AVANCE I	II 400 MHz	Form B	Form A	Form C	Form C
ECX 40	00 MHz	Form B	Form A	Form C	Form C
AVANCE I	II 600 MHz	Form B	Form A	Form C	Form C
ECX 500	Liquid		Form A	Form C	Form C
MHz	Solid		Form D	Form D	Form E

FT-NMR SPECTROSCOPY SERVICES PAYMENT RATE

NN	/IR	Chemist	try user			UM U	Jser	0	utside use	•		
Type o	of user	Registered user	Non-regist	ered user		Non-registered user		jistered user Non-registered use		ıser		
AVANCE II ECX 40		RM 2,000.00 for 1 year, 25 hours per month RM 3,500.00 for 2 years, 25 hours per month RM 5,500.00 for 3 years, 25 hours per month	Refer to Table A ¹			Refer to Table A ¹						C ¹
AVANCE II	II 600 MHz	RM 2,500.00 for 1 year or 300 hours or whichever comes first RM 4,500.00 for 2 years or 600 hours or whichever comes first RM 7,000.00 for 3 years or 900 hours or whichever comes first	Refer to	Table B ¹	Refer to Table B ¹		Ref	er to Table	D ¹			
ECX 500	Liquid	-	Refer to	Table A ¹		Refer to	Table A ¹	Ref	er to Table	C ¹		
MHz	Solid	-	First one hour	RM 150		First one hour	RM 200	First one hour	RM 250 ^a	RM 300 ^b		
			Subsequent hour	RM 80/hour		Subsequent hour	RM 100/hour	Subsequent hour	RM 100/hour ^a	RM 150/hour ^b		

¹ Based on duration of experiment per sample basis, ^a University & government agency, ^b Industry



Table A: non-registered University of Malaya user for 400 MHz

Experiments Duration	1D ¹ H/ ¹⁹ F/ ³¹ P (R M)	1D ¹³ C/ ¹¹⁹ Sn (RM)	2D-FG (H-H COSY, H-C HMQC, H-C HMBC, HSQC) (RM)	2D-Noesy (RM)
≤ 10 min	20.00		-	-
≤ 30 min	40.00	50.00	70.00	-
30 min < x ≤ 1hour	*60.00	70.00	90.00	120.00
> 1 hour	*120.00/hour	60.00/hour	80.00/hour	90.00/hour
Overnight	-	400.00/8 hours	500.00/8 hours	600.00/8 hours

: ¹H observation, e.g., 1D NOE, pre saturation : ³¹P Observation *Experiment

Sample preparation								
	RM 70.00 per sample							
Solvent usage	Solvent usage CDCl ₃ CD ₃ OD D ₂ O DMSO(d ₆) Acetone (d ₆)							
Price	:	RM 50.00	RM 60.00	RM 55.00	RM 70.00	RM 70.00		



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Table C: non-registered external user for 400 MHz

Experiments Duration	1D ¹ H/ ¹⁹ F/ ³¹ P (RM)		1D ¹³ C/ ¹¹⁹ Sn (RM)		2D-FG (H-H COSY, H-C HMQC, H-C HMBC, HSQC) (RM)		2D-Noesy (RM)	
	Government	Private	Government	Private	Government	Private	Government	Private
≤ 10 min	60.00	75.00	-	-	-	-	-	-
≤ 30 min	80.00	100.00	80.00	100.00	120.00	150.00	-	-
30 min < x ≤ 1hour	*120.00	150.00	120.00	150.00	150.00	190.00	200.00	250.00
> 1 hour	*150.00	190.00	80.00/ hour	100/hour	100.00/hour	125.00/hour	120/hour	150.00/hour
Overnight	-	-	600.00/ 8 hours	750.00/ 8 hours	700.00/ 8 hours	875.00/ 8 hours	800.00/ 8 hours	1000.00/ 8 hours

: ¹H observation, e.g., 1D NOE, pre saturation : ³¹P Observation *Experiment

Sample preparation								
	RM 70.00 per sample							
Solvent usage	Solvent usage CDCl ₃ CD ₃ OD D ₂ O DMSO(d ₆) Acetone (d ₆)							
Price								



Table B: non-registered University of Malaya user for 600 MHz

Experiments Duration	1D ¹ H/ ¹⁹ F/ ³¹ P (R M)	1D ¹³ C/ ¹¹⁹ Sn (RM)	2D-FG (H-H COSY, H-C HMQC, H-C HMBC, HSQC) (RM)	2D-Noesy (RM)
≤ 10 min	35.00		-	-
≤ 30 min	52.00	65.00	90.00	-
30 min < x ≤ 1hour	*78.00	90.00	117.00	150.00
> 1 hour	*120.00	78.00/hour	104.00/hour	115.00/hour
Overnight	-	520.00/8 hours	650.00/8 hours	750.00/8 hours

: ¹H observation, e.g., 1D NOE, pre saturation : ³¹P Observation *Experiment

Sample preparation RM 70.00 per sample							
Solvent usage	Solvent usage CDCl ₃ CD ₃ OD D ₂ O DMSO(d ₆) Acetone (d ₆)						
Price : RM 50.00 RM 60.00 RM 55.00 RM 70.00 RM 70.00							



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Table D: non-registered external user for 600 MHz

Experiments Duration	1D ¹ H/ ¹⁹ F/ ³¹ P (RM)		1D ¹³ C/ ¹¹⁹ Sn (RM)		2D-FG (H-H COSY, H-C HMQC, H-C HMBC,HSQC) (RM)		2D-Noesy (RM)	
	Government	Private	Government	Private	Government	Private	Government	Private
≤ 10 min	80.00	100.00	-	-	-	-	-	-
≤ 30 min	100.00	125.00	110.00	140.00	150.00	188.00	-	-
30 min < x ≤ 1hour	*160.00	*200.00	150.00	190.00	210.00	263.00	280.00	350.00
> 1 hour	*200.00	*250.00	110.00/ hour	140/hour	140.00/hour	175.00/hour	170/hour	213.00/hour
Overnight	-	-	720.00/ 8 hours	900.00/ 8 hours	1100.00/ 8 hours	1375.00/ 8 hours	1300.00 / 8 hours	1625.00/ 8 hours

: ¹H observation, e.g., 1D NOE, pre saturation : ³¹P Observation *Experiment

Sample preparation						
RM 70.00 per sample						
Solvent usage CDCl ₃ CD ₃ OD D ₂ O DMSO(d ₆) Acetone (d ₆)						
Price	:	RM 50.00	RM 60.00	RM 55.00	RM 70.00	RM 70.00





TERMS AND CONDITIONS

Registration	Training	Booking & Canceling	Operating
 Registration for FT-NMR can be done throughout the year. Research Assistant is required to create ummail account For NMR 600 MHz application, if the 300 hours allocation usage time is used up already, user must renew their application. Either 400 MHz and 600 MHz, if there are balance upon term expired, the balance cannot be carry forward to the next registration. 	5. Users are allowed to operate the machine without supervision after attending the training session and get the thumbprint from the respective Science Officer except for 600 MHz	 Slot reservation can be made by online on the weekly basis and one week in advance, To book, please login to ibs.um.edu.my Slot cancellation can be done more than 72 hours from the time of booking. If the cancellation is done less than 72 hours, a penalty will be given. E.g. 2 hours booking slot on January was cancelled less than 72 hours, as the penalty, the total usage for February will be deducted to 23 hours. No replacement slot will be given if there is an occurrence of power failure, faulty machine or maintenance of the machine For 600 MHz, user are required to fill in google format https://forms.gle/vob9JR9NtPaJSsKH6 and submit the sample to AVANCE III lab together with 1H spectra; and FT-NMR 600 MHz sample submission form 	 11. Please write down your name in the logbook after using the machine. 12. Paper for printing is not provided. Kindly bring your own paper. 13. Running outsiders' sample is strictly prohibited. If you are caught of doing so, your registration will be terminated immediately. 14. For non-registered user the expected period of completion of the analysis work is 1 - 2 weeks after the receipt of the completed form and sample subjected to the availability of slot and the availability of the equipment.