Type of Service	Charges for GNDU campus and constituent colleges/regional centres		Charges for other academic institutes/ industries/R & D Labs		
NMR Spectrometer	Including NMR	Excluding NMR	Educational	Industries	R & D Labs
Bruker Avance HD	tube, solvent	tube, solvent	institutions		
III 500 MHz	(i)	(ii)	(iii)	(iv)	
1H, 13C, DEPT	Rs. 100 per	Rs.40 per	Rs 400 per spectrum.	Rs 400 per spectrum.	Rs 400 per spectrum.
experiment, 15N, 31P	Spectrum	Spectrum	Rs. 700 per sample	Rs. 800 per sample	Rs. 700 per sample
and all other nuclei			for 1H, 13C, DEPT.	for 1H, 13C, DEPT.	for 1H, 13C, DEPT.
(With all available			Rs 400 for each	Rs 400 for each	Rs 400 for each
solvents)			additional spectrum	additional spectrum	additional spectrum
D ₂ O Exchange	Rs. 100 per		Rs. 200 per	Rs. 400 per	Rs. 300 per
	Spectrum		Spectrum	Spectrum	Spectrum
2-D COSY, NOESY,	Rs. 300 per	Rs. 100 per	Rs. 1000 per	Rs. 2000 per	Rs. 1500 per
ROESY, TOCSY,	Spectrum or Rs. 100	Spectrum	Spectrum	Spectrum	Spectrum
HMBC, HMQC	per hour of				
including 1D expts	instrument time				
required	whichever is more				
NMR Spectrometer					
JEOL 400 MHz					
1H, 13C, DEPT	Rs. 50 per Spectrum	Rs. 20 per	Rs 300 per spectrum.	Rs 300 per spectrum.	Rs 300 per spectrum.
experiment, 15N, 31P		Spectrum	Rs. 600 per sample	Rs. 700 per sample	Rs. 600 per sample
and all other nuclei			for 1H, 13C, DEPT.	for 1H, 13C, DEPT.	for 1H, 13C, DEPT.
(With all available			Rs 300 for each	Rs 300 for each	Rs 300 for each
solvents)			additional spectrum	additional spectrum	additional spectrum
D ₂ O Exchange	Rs. 50 per Spectrum		Rs. 150 per Spectrum	Rs. 250 per Spectrum	Rs. 200 per Spectrum
2-D COSY, NOESY, ROESY, TOXCY, HMBC, HMQC	Rs. 200 per Spectrum or Rs. 200 per hour of instrument time	Rs. 50 per Spectrum	Rs. 800 per Spectrum	Rs. 1500 per Spectrum	Rs. 1200 per Spectrum

including 1D expts required	whichever is more				
Type of Service	Charges for GNDU campus and constituent colleges/regional centres		Charges for other academic institutes/ industries/R & D Labs		
HIGH RESOLUTION LCMS/MS		Educational institutions	Industries	R & D Labs	
Direct Injection MS	Rs. 200		Rs. 1000	Rs. 2500	1500
LCMS	Rs. 500 (LC protocol should be given)		Rs. 1500	Rs. 4000	2500
UHPLC	Rs. 100		Rs. 500 per sample	Rs. 1500 per sample	1000
Ion Chromatography	200 per sample (either cation or anion column)		1000 per sample (either cation or anion column)	2000 per sample (either cation or anion column)	1500 per sample (either cation or anion column)
CHN Analysis					
C, H, N & S	Rs. 50 pc	er sample	Rs. 600 per sample	Rs. 3000 per sample	Rs. 1500 per sample
ATOMIC ABSORPTIO	N SPECTROMETE	R			
As, Ba, Cd, Cr, Hg, K, Mg Ni, Pb, Mn, Fe, Cu, Na, K, Zn, Co	Rs. 100 per Element per Sample. For As, Hg, K, Na and Mg: Rs 200 for each element		Rs. 200 per Element per Sample. For As, Hg, K, Na and Mg: Rs 400 for each element	Rs. 1000 per Element per Sample (including sample preparation)	Rs. 800 per Element per Sample (including sample preparation)
pH, alkalinity, hardness, Ca, Mg (titrometric), NO ₃ , PO ₄ , K, organic carbon, Na, turbidity, DO, BOD and COD		-	-	Rs 500 per each test per sample	
POWDER XRD					

Powder XRD	Rs. 30 per Spectrum or Rs. 30 per hour	Rs.350 per Spectrum	Rs.1500 per	Rs.1000 per	
	of instrument time whichever is more		Spectrum	Spectrum	
Type of Service	Charges for GNDU campus and constituent colleges/regional centres	Charges for other academic institutes/ industries/R & D Labs			
ELECTRON MICROSCOPE		Educational institutions	Industries	R & D Labs	
(i) FESEM	100	800	2000	1500	
(ii) FESEM + EDX	150	1000	2500	2000	
(iii)FESEM + EDX + elemental mapping	200	1500	3000	2500	
TEM (normal)	400	2500	4000	2500	
HRTEM	500	3000	4500	3000	
SAED (extra)	100	500 per pattern	500 per pattern	500 per pattern	
Confocal (per hour)	100	1000	4000	2000	
Raman	30	500	1500	1200	
Flow cytometer (per	100	1000	2000	1500	
hour)					
ITC	50	500	1000	800	
Amino acid analyzer	500	1000	2000	1500	
Particle size analyzer	50 per sample	500 per sample	750	600	
Zeta sizer	75 per sample	600	850	700	
HPLC	50 per sample	250 per sample	1000 per sample	800 per sample	
Rheometer	50 per sample	250 per sample	500 per sample	400 per sample	
Spray drier	100 per sample or per hour	500 per sample	1000 per sample	800 per sample	
Ellipsometer	30	500 per sample	1000 per sample	800 per sample	
Cytogenetic	500 per sample	1500 per sample	4500 per sample	4000 per sample	
workstation					
AFM	100	500	1000	800	
UV-NIR	40	200	500	400	
Dynamic Light	50	200	500	400	
Scattering					

Vibrating stimulating	100	500	1000	800
magnetometer				

1. Mode of Payment

- (i) For samples outside the GNDU campus: Payment can be made in the form of DD drawn in favour of Registrar, Guru Nanak Dev University, payable at Amritsar.
- (ii) For in-campus samples; Payment will be received in cash in the office of Emerging Life Sciences and a receipt will be given.
- (iii) GST = 18% extra for outside samples.
- 2. For the NMR users under category (ii) (Annexure-I): time slot will be allotted every week and the machine will be operated by the group member/s who are trained for operating NMR spectrometer.
- 3. For getting good HRMS, either provide pure solid/liquid compound or provide correct information for concentration. If providing solution of the compound, concentration should be at least 50 μM.
- 4. Results will be available within One week of submitting the sample.
- 5. Time slot for each machine depends upon the availability of the machine.