



Centre of Excellence in Advanced Manufacturing Technology
IIT Kharagpur

Instructions for slot bookings:

1. Please see the “**Rate Chart**” (available in Page 2 & 3) of this document.
2. Fill the **questionnaire** available in the [website](#) (click on the link to find the questionnaire). After clicking, you will be prompted to Gmail’s Sign In page. Please login with your Gmail account to continue.
You can also locate the questionnaire at (<http://www.coeamt.com/infrastructure.php>).
At the end of the questionnaire, please upload the **necessary drawing(s) describing your job** details, if needed.
3. You will receive an email from the CoE with a **confirmation / regret** with respect to your job’s specifications. If it is confirmed by the CoE, the same email will contain the payment details, required number of slots (hours of operation), and a suitable date. This email will also have a link for filling the payment details.

NOTE:

- Please follow the instructions as mentioned above.
- CoE will not accept any cash transactions.
- In case of your unavailability in the slot assigned for your job, kindly drop an email to CoE (coeamt@gmail.com), at least 4 days before, for re-scheduling the same.
- The CoE will operate and provide the facility solely based on the drawing(s) submitted by the customer with the questionnaire. Once a job is confirmed by the CoE and a slot is assigned, the customer should not change / bring a different job with unknown dimensions.

Rate chart for using the facilities of CoE AMT

Sl. No.	Name of the equipment	Job ID	Add-ons	Charges (per slot) 1 Slot = 1 Hr duration				Remarks
				Cat A	Cat B	Cat C	Cat D	
				IIT KGP	Academic intuitions (other than IIT-KGP)	Research Labs, MSME & Start-ups	Large Industry	
1.	CNC Wire-cut EDM	INL01A	Without CAM programming	700	840	1400	1680	Preparation of tensile sample as per ASTM E-8
		INL01B	CAM program for other geometries and NC code generation	900	1080	1800	2160	User needs to provide the drawing of the geometry
2.	CNC Turning Centre	ROM01A	Without CAM programming	1000	1200	2000	2400	Standard operations such as (a) Plain turning and (b) Taper turning are available. Tool material available: Carbide tool. Maximum job dimension: 30 mm diameter, 150 mm length.
		ROM01B	With CAM programming	1200	1440	2400	2880	For complicated operations. Tool material available: Carbide tool. Maximum job dimension: 30 mm diameter, 150 mm length.
3.	UTM	INL02A	Tensile testing	1000	1200	2000	2400	For flat sample: Samples are prepared as per ASTM E-8 standard For Pin-Loaded tension test specimen, please take confirmation of the exact dimension through email For round and threaded head specimen, please take confirmation of the exact dimension through email
		INL02B	Tensile testing with video extensometer	1500	1800	3000	3600	For flat sample: Samples are prepared as per ASTM E-8 standard For Pin-Loaded tension test specimen, please take confirmation of the exact dimension through email For round and threaded head specimen, please take confirmation of the exact dimension through email
		INL02C	Tensile testing with hot chamber	2000	2400	4000	4800	For Pin-Loaded tension test specimen, please take confirmation of the exact dimension through email For round and threaded head specimen, please take confirmation of the exact dimension through email
		INL02D	Tensile testing with hot chamber and video extensometer	2500	3000	5000	6000	For Pin-Loaded tension test specimen, please take confirmation of the exact dimension through email For round and threaded head specimen, please take confirmation of the exact dimension through email
		INL02E	Low cycle fatigue test	1000	1200	2000	2400	For round and threaded head specimen, please take confirmation of the exact dimension through email
		INL02F	Low cycle fatigue test with video extensometer	1500	1800	3000	3600	For round and threaded head specimen, please take confirmation of the exact dimension through email
		INL02G	Low cycle fatigue test with hot chamber	2000	2400	4000	4800	For round and threaded head specimen, please take confirmation of the exact dimension through email
		INL02H	Low cycle fatigue test with hot chamber and video extensometer	2500	3000	5000	6000	For round and threaded head specimen, please take the confirmation of the exact dimension through email

4.	Robotic FSW	ROM02A	Without programming	1500	1800	3000	3600	Welding of similar materials such as aluminium to aluminium, magnesium to magnesium. Standard tool available: HSK tool,	
		ROM02B	With programming	2000	2400	4000	4800		
		ROM02C	With force measurement using 6D sensor	2000	2400	4000	4800		4600
		ROM02D		2500	3000	5000	6000		5600
5.	Sample Cutting	INL03		700	840	1400	1680	Abrasive wheel cutter: 4"	
6.	Hot Mounting	INL04A	Without conductive powder	400	480	800	960		
		INL04B	With conductive powder	450	540	900	1080		
7.	Sample Grinding & Polishing	INL05A	Without any consumable other than use in the machine	1200	1440	2400	2880	Six samples can be mounted on the machine at a time.	
		INL05B	Use of etchants (one-time preparation and handling)	1700	2040	3400	4080	For aluminium samples: Keller's reagent. For steel:	
8..	Stereo zoom Microscope	INL06		1000	1200	2000	2400		
9.	Metallurgical Microscope	INL07		1000	1200	2000	2400		
10.	Electrochemical Station	INL08		1000	1200	2000	2400	With NaCl medium/ Other medium	
11.	XRD	NTE01		600	720	1200	1440		
12	FE-SEM	NTE02		1500	1800	3000	3600		
13	5 MP Blue light scanner	-	-	-	-	-	-	Machine is installed. Rates will be available soon.	
14	Robotic 3D laser scanning structural Vibration test station	-	-	-	-	-	-	Machine is in the process of installation. Rates will be available soon.	
15	CT Scan System with a large scanning are	-	-	-	-	-	-	Facility coming soon.	
16	CNC 5-axis Machining Centre	-	-	-	-	-	-	Machine arrived, installation is pending. Rates will be updated soon.	
17	Robot assisted welding facilities (TIG, MIG, SPOT and Laser welding & cladding)	-	-	-	-	-	-	Facility coming soon.	

For professional meetings and Video conference facility:

Sl. No.	Name of the equipment	Job ID	Add-ons	09.00AM to 01.00PM	2.00PM to 6.00PM	6.00PM to 8.00PM	
A.	Board room Facility	BR01A	Without VC system	6000	6000	7000	(Note: (a) No laptop / PC will be provided by CoE for the meeting, (b) No provision for snacks and tea by CoE)
		BR01B	With VC system	7000	7000	8000	