



Centre of Excellence in Advanced Manufacturing Technology  
IIT Kharagpur

*Instructions for slot bookings:*

1. Please see the **Rate Chart** (available in the next page).
2. Fill the questionnaire available in the website. At the end of this form, please upload the necessary drawing describing your job details.
3. You will receive an email from the CoE with 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:**

- Instructions are to be followed strictly as mentioned above. CoE will not accept any cash transactions.
- No job(s) will be entertained, apart from the slot provided to you. In case you are unable to make yourself available in the slot provided, drop an email to CoE at least 4 days before, for re-scheduling the same.
- The CoE will operate and provide the facility solely based on the drawing given by the customer. Once confirmed by the CoE with a slot, the user cannot change / bring a different job with unknown dimensions. In that case, the CoE will defer operating on the same.

## 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	
				Institute (Internal)	Institute (External)	Research labs	Industry Professionals	
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	Robot assisted welding facilities (TIG, MIG, SPOT and Laser welding & cladding)	-		-	-	-	-	Machines ae getting installed. The rates will be updated soon.
13	CT Scan System with a large scanning are	-		-	-	-	-	Machines ae getting installed. The rates will be updated soon.
14	FE-SEM	-		-	-	-	-	Machines ae getting installed. The rates will be updated soon.
15	CNC 5-axis Machining Centre	-		-	-	-	-	Machines ae getting installed. The rates will be updated soon.
16	Robotic 3D laser scanning structural Vibration test station	-		-	-	-	-	Machines ae getting installed. The rates will be updated soon.
17	5 MP Blue light scanner	-		-	-	-	-	Machines ae getting installed. The rates will be updated 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	5500	(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	6500	