

Mechanical Testing Lab and Machine Shop, ACMS

Maintenance charges to be levied to Users

Testing/ Operation	Rates for Inside IITK	Rates for academia outside IITK	Rates for Industry
Mechanical Tests	(Revised Oct 2020)		
a. Room Temperature tension/ torsion/ compression/ (standard ASTM samples ready-to-go) [Only clip-gauge can be provided. Strain-gauges, if-required, must be provided and fixed on the sample, by the users] Bulk Hardness – Rockwell, Brinell, Vicker (includes 5 indents)	Rs 200 per sample (min Rs. 200 per hour) (No charge for 1 sample)	Rs 400 per sample (min Rs. 400 per hour)	Rs 1000 per sample (min Rs. 1000 per hour)
b. Simple tests with furnace (from RT to 500C)	Additional charge of Rs. 200 per hour	Additional charge of Rs. 400 per hour	Additional charge of Rs. 2000
c. Simple tests with furnace (from 500C to higher temperature)	Additional charge of Rs. 400 per hour	Additional charge of Rs. 800 per hour	Additional charge of Rs. 4000
d. Fatigue Tests (10 Hz or higher)	<ul style="list-style-type: none"> • Rs 7500 for S-N curve (with first 5 samples) • Rs. 2000 for each additional sample 	<ul style="list-style-type: none"> • Rs 15000 for S-N curve (with 5 samples) • Rs. 4000 for each additional sample 	<ul style="list-style-type: none"> • Rs 75,000 for S-N curve (with 5 samples) • Rs. 20,000 for each additional sample

e. J_{1C}/K_{1C} (opening crack + testing)	Rs 400 + Rs 100	Rs 800 + Rs 200	Rs 5000 + Rs. 1000
f. J_{1C}/K_{1C} (cyclic loading)	Rs 400 per sample + Rs. 250 per hour of cyclic loading	Rs 800 per sample + Rs. 500 per hour of cyclic loading	Rs 4000 per sample + Rs. 2500 per hour of cyclic loading
g. Tests with DIC	<ul style="list-style-type: none"> • Additional charge of Rs. 1000 per slot (upto 5 samples) 	<ul style="list-style-type: none"> • Not Available 	<ul style="list-style-type: none"> • Not Available
h. Creep Tests	<ul style="list-style-type: none"> • Rs. 1200 per sample (upto 48 hours) • Rs. 600 for each additional day (24hr) or part thereof 	<ul style="list-style-type: none"> • Rs. 2400 per sample (upto 48 hours) • Rs. 1200 for each additional day (24hr) or part thereof 	<ul style="list-style-type: none"> • Rs. 12000 per sample (upto 48 hours) • Rs. 600 for each additional day (24hr) or part thereof
i. SSRT Tests	<ul style="list-style-type: none"> • Rs. 1200 per sample (upto 48 hours) Rs. 600 for each additional day (24hr) or part thereof 	<ul style="list-style-type: none"> • Rs. 2400 per sample (upto 48 hours) Rs. 1200 for each additional day (24hr) or part thereof 	<ul style="list-style-type: none"> • Rs. 12000 per sample (upto 48 hours) Rs. 600 for each additional day (24hr) or part thereof
j. Charpy Test	<ul style="list-style-type: none"> • Rs. 100 per sample at RT and cryo 	<ul style="list-style-type: none"> • Rs. 200 per sample at RT and cryo 	<ul style="list-style-type: none"> • Rs. 1000 per sample at RT and cryo

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Sample Prep	(Revised Oct 2020)		
a. Lathe and related operations for sample preparation for Mechanical testing Lab	Rs. 100 per sample/ hour (no charges for one sample/ one hour)	Not Available	Not Available
b. Other sample preparation technique i. Wire-saw ii. Vibromet iii. EDM	Rs. 100 per hour (no charges for < 1hr)	Rs 500 per sample	Rs. 2000 per sample



Prof. Kallol Mondal



Prof. Shashank Shekhar



Prof. Pritam Chakraborty



Prof. Niraj Sinha



Prof. Sudhanshu S. Singh (Convener)