

RESEARCH LABORATORIES & CENTRALIZED INSTRUMENTATION FACILITIES
Department of Production Engineering, NIT Tiruchirappalli

S.No.	Name of the Equipment	Name of the Laboratory	Short description of the Equipment (Model, Make Important Details)	Faculty In charge Contact Details
1.	Laser Materials Processing Workstation	LaSET	Make: Optilase	Dr. M. Duraiselvam 0431-2503509
2.	Laser Micromachining Workstation	LaSET	Make: Aimil Ltd	Dr. M. Duraiselvam 0431-2503509
3.	Universal Tribometer	LaSET	Make: R. tech Instrument	Dr. M. Duraiselvam 0431-2503509
4.	Roller on Roller Wear Tester	Surface Engineering and Tribology Lab	Make: DUCOM Model: TR-25	Dr. M. Duraiselvam 0431-2503509
5.	Corrosion Wear Monitor	Surface Engineering and Tribology Lab	Make: DUCOM Model:TR-20	Dr. M. Duraiselvam 0431-2503509
6.	Wear and Friction Monitor	Surface Engineering and Tribology Lab	Make: Nanotech Systems Model:TR-20H-PHM-40-CHM 500	Dr. M. Duraiselvam 0431-2503509
7.	Scratch Tester	LaSET	Make: DUCOM Model:TR-101	Dr. M. Duraiselvam 0431-2503509
8.	Metallurgical Microscope	LaSET	Make: Olympus Model: Foundryplus	Dr. M. Duraiselvam 0431-2503509
9.	Surface Roughness Tester	LaSET	Make: Mitutoyo Model:SJ-201P	Dr. M. Duraiselvam 0431-2503509
10.	Stereo Microscope	LaSET	Make: Olympus	Dr. M. Duraiselvam 0431-2503509

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11.	Precision weighing balance	Surface Engineering and Tribology Lab	Make: Essae Model:AF-R220E	Dr. M. Duraiselvam 0431-2503509
12.	Double disc polishing	Surface Engineering and Tribology Lab	Make: Chennai Metco	Dr. M. Duraiselvam 0431-2503509
13.	Belt grinder	Surface Engineering and Tribology Lab	Make: Chennai Metco	Dr. M. Duraiselvam 0431-2503509
14.	Hydraulic specimen mounting press	Surface Engineering and Tribology Lab	Make: Chennai Metco	Dr. M. Duraiselvam 0431-2503509
15.	Abrasive cutter double disc	Surface Engineering and Tribology Lab	Make: Chennai Metco	Dr. M. Duraiselvam 0431-2503509
16.	Infrared Thermal Camera	LaSET	Aimil Ltd Make: Fluke Model:Ti959HZ	Dr. M. Duraiselvam 0431-2503509
17.	Automatic Polishing Machine	Advanced Welding Lab	2007	Dr.P.Sathiya 0431-2503510
18.	Hydraulic Mounting Press	Advanced Welding Lab	2007	Dr.P.Sathiya 0431-2503510
19.	Heat Treating Furnace	Advanced Welding Lab	2014	Dr.P.Sathiya 0431-2503510
20.	Macroscope	Advanced Welding Lab	2018	Dr.P.Sathiya 0431-2503510
21.	Optical Microscope	Advanced Welding Lab	2013	Dr.P.Sathiya 0431-2503510

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22.	Vickers Microhardness Tester	Advanced Welding Lab	2016	Dr.P.Sathiya 0431-2503510
23.	Electrochemical Workstation	Advanced Welding Lab	2015	Dr.P.Sathiya 0431-2503510
24.	Abrasive Cutting Machine	Advanced Welding Lab	2017	Dr.P.Sathiya 0431-2503510
25.	Belt Grinder	Advanced Welding Lab	2017	Dr.P.Sathiya 0431-2503510
26.	Impression Creep Testing Machine	Advanced Welding Lab	2016	Dr.P.Sathiya 0431-2503510
27.	Flexsim simulation software	Simulation laboratory	Flexsim 2017 used for modeling and simulation of manufacturing system	Dr.S.Prasanna Venkatesan 0431-2503514
28.	3D Printer	Rapid Manufacturing Laboratory	FDM based 3D Printer Model: uPrint SE Plus Make: Stratasys, USA	Dr S Vinodh 9952709119 0431-2503520