Table B.6.2: Additional Facilities created in the laboratories

Sr. No.	Facility Name	Details	Reason(s) for creating facility
01	CNC Laboratory (Establishment year 2018-2019)	1. CNC Lathe 2. CNC Milling 3. Six Arm Robot	To provide complete picture of Automation and working of robot in Automation in Production and Computers Integrated Manufacturing System. Part Programming
02	Advance engine setup (Establishment year 2019-2020)	Combination of common rail direct injection and a turbocharger with variable turbine geometry Lightweight aluminum construction Output of 140 KW/190 HP and a maximum torque of 400 NM at 1,750- 2.500 RPM Highly smooth gear shifts for optimal power development Gears reduce the number of revolution at high speed, thereby reducing the fuel consumption and engine noise, while increasing sportiness	A technical training initiative aimed at imparting quality practical skills for budding engineers
03	Automobile lab (Establishment year 2020-2021)	1. sectional working model of petrol and diesel engines 2. Gas turbine 3. Ram jet Engine 4. Cut section of single cylinder 4 stroke Diesel engine 5. Sectional working Model of 2 stroke Petrol Engine. 6. Sectional working model of 4 stroke, 3 cylinder Petrol Engine 7. Ignition System of a Maruti car Engine 8. Model of Carburetor - 4 different type	This model helps the student to understand the working of automobile parts very easily. It is specially made dissectible for demonstration purposes.
04	3 D PRINTER (Establishment year 2020-2021)	1. TEVO-Tarantula I3 Aluminium Extrusion 3D Printer Kit printer 2. rolls filament 8 GB SD card LCD as gift. 2. Phrozen Sonic Mini 4K Resin 3D Printer (Industry supported lab by PYE Technologies India)	1. 3D PRINTER is a machine allowing the creation of a physical object from a three-dimensional digital model, typically by laying down many thin layers of a material in succession.

			2.Tevo Tarantula -Prusa i3 3D printer features automatic bed leveling (optional) and bigger bed (optional). The auto-leveling version uses a proximity sensor to detect the aluminum print bed where the normal version of the printer uses a micro-switch to detect the end of travel for the Z-Axis movement (vertical limits)
05	Research Lab	ANSYS Software	Establishing a research lab in mechanical engineering benefits students, faculty, industries, and society at large. It fosters innovation, skill development, interdisciplinary collaboration, and the application of knowledge to real-world challenges.