

**Faculty of Mechanical Engineering**  
**M.E. Automobile Engineering**  
**(R 2021) Semester – I**

<b>Course Code: AM4111      Course Title: Engine and Chassis Component Laboratory</b>		
<b>Sl. No.</b>	<b>Description of Equipment</b>	<b>Required Numbers (For batch of 25 students)</b>
1	1000CC Engine / Passenger Car Engine	1
2	Six-cylinder Engine/ Truck Engine	1
3	V8 Engine / Equivalent	1
4	CRDI Engine (Car /SUV)	1
5	MPFI Engine (Car /SUV)	1
6	Single plate, Diaphragm Clutch	1
7	Constant mesh, Sliding mesh gear box	1
8	Transfer case	1
9	Live Rear axle	1
10	Live and Dead Front axle.	1

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<b>Course Code: AM4112 Course Title: Automotive Electrical and Electronics Laboratory</b>		
<b>Sl. No.</b>	<b>Description of Equipment</b>	<b>Required Numbers (For batch of 25 students)</b>
1	Lead acid battery, Portable battery tester, Multi meter, Hydrometer, High discharge tester	1
2	Starter motor and alternator test bench and tools	1
3	Ignition system test setup	1
4	Entire Automotive electrical system Kit	1
5	Microprocessor Programming Kits and Accessories	6
6	Displacement Measurement Using LVDT kit	1
7	Vibration Measurement using Accelerometer kit	1
8	Temperature Measurement using Thermocouple kit	1
9	Motor Speed Measurement using Magnetic pick-up kit	1
10	Microcontroller kit, Stepper and DC motor	1
11	Power supply, Bread board, IC, LED, Wires, Resistors, Capacitor, LED and LCD display and other components.	6
12	ADC and DAC kit	1
13	OBD Scan Tool Kit	1
14	Oscilloscope	1