

LIST OF LABS / WORKSHOPS
DAE-AUTO & FARM TECHNOLOGY

S.NO.	NAME OF LAB/WORKSHOP	Quantity
1.	ADVANCE ENGINE LAB (PETROL, DIESEL, MOTORCYCLE)	1 NO
2.	AUTOMOTIVE ELECTRICITY & ELECTRONICS DIAGNOSTIC & TESTING LAB	1 NO
3.	AUTO CAD LAB (COMPUTER LAB)	1 NO
4.	ELECTRIC VEHICLE LAB	1 NO
5.	DENTING & PAINTING, AUTOMOTIVE DETAILING LAB & SERVICE STATION	1 NO
6.	SUSPENSION, STEERING & BRAKES LAB	1 NO
7.	FARM MACHINERY ,IMPLEMENT CALIBRATION & DEMONSTRATION LAB	1 NO
8.	FIELD AREA FOR TUNNEL FARMING / PRESSURIZED IRRIGATION DRIP IRRIGATION SPRINKLE IRRIGATION AND AGRICULTURAL PRACTICE	1 Hectare

LIST OF BASIC HAND TOOLS
(For DAE class of 50 students)

S.NO	Name of Tool	Quantity
1.	Flat Screw driver (4", 6", 8", 12")	10 each
2.	offset Screw driver (4", 6", 8", 12")	05 each
3.	Philips Screw driver (4", 6", 8", 12")	10 each
4.	Impact Screw driver set	10 set
5.	Hammers (Ball peen, Straight peen, cross peen) sledge, Brass or lead, plastic tipped, rubber mallet.	2 each
6.	Special screw drivers (stubby, scratch awl, Socket head driver, clip screw driver.	5 each
7.	Pliers(needle nose, High leverage cutter, vise grip, diagonal cutting, Battery Plier, tin snip ,snap ring, rib joint, slip joint, crimper)	5 each
8.	Adjustable Wrench (6", 12")	5 each
9.	Pipe Wrench(8",10",12")	5 each
10.	Strap wrenches(universal, Big range/Adjustable fuel filter and oil filter)	5 each
11.	Open end spanner set (8-32 mm)	10 set
12.	Ring Spanner set (off set) 8-32mm	10 set
13.	Box end spanner set (8-32 mm)	10 set
14.	Special wrenches (sludge wrench, ratchet wrench, flex combination, half moon).	5 each
15.	Spark plug spanner.	10 No's
16.	Torque Wrench (flex bar, dial indicator, snap or click, digital)	2 each
17.	Allen Key set (1.5- 10 mm)	10 set
18.	Socket setcomplete (8-32 mm with all accessories).	10 set
19.	Wheel spanner cross type	5 No's
20.	Pullers (Gears, Bearings, Pulleys, Steering, slide hammer)	2 each
21.	Oil Seal extractors and installers	5 No's
22.	Oil cane (pressure type).	10 No's
23.	Tube bender , Tube cutter and Flaring tools set	10 set
24.	Valve Spring Compressor	5 No's
25.	Piston Ring Compressor	10 No's
26.	Piston Ring Expander	10 No's
27.	Grease Gun (400cc capacity)	10 No's
28.	Pop Rivet Plier	5 No's
29.	Scraper (blade width 2",4",6")	15 No's each
30.	Scissor (10")	5 No's
31.	Centre Punch	10 No's
32.	Punches (Hollow punch set)	10 set
33.	Adjustable Hand Hacksaw frame (300 mm)	10 No's
34.	Bench vice (4", 6")	05 No's each

35.	Anvil (40 kg)	02 No's
36.	Surface Plate	1 No's
37.	Magnetic pickup tool(prob pick up tool set)	10 set
38.	Magnifying glass	10 No's
39.	Die & tap set (2,4,6,8,10mm)	05 set each
40.	Hand brushes (wire type)	10 No's
41.	Pry bars set (20", 25", 30")	2 set
42.	File (Flat, round, triangle, square)10"	05 No's each
43.	Chisels (Flat, cross-cut, round nose)	10 No's each
44.	Calipers (Internal & external)2mm-100mm	10 set
45.	V-Blocks	1 No's
46.	S.S.T tools (for carburetor)	2 set
47.	Stud extractor set	5 set
48.	Lettering Punch set	02 No's
49.	Numbers punch set	02 No's
50.	Pneumatic Screw Gun	03 No's
51.	Electric Wrench	02 No's

LIST OF MEASURING TOOLS/EQUIPEMENTS

(For DAE class of 50 students)

S.NO	Name of Tool	Quantity
1.	Steel Foot rule.	10 No's
2.	Steel tape (50 ")	10 No's
3.	Spring Scale (5 kg)	10 No's
4.	Venire Caliper. (250mm , Least count 0.05)	10 No's
5.	Micrometer (inside) 0-25mm, 0-50mm, 0-75mm, 0-100mm	2 No's Each
6.	Micrometer (outside) 0-25mm, 0-50mm, 0-75mm, 0-100mm	2 No's Each
7.	Dial Gauge (Leas count 0.001" 0.01-10mm))	02 No's
8.	Depth gauge	02 No's
9.	Feeler gauge	05No's
10.	Thread pitch gauge	02 No's
11.	Wire gauge	02 No's
12.	Belt tension gauge	05No's
13.	Telescoping gauge	05No's
14.	Tire Pressure gauge	05No's
15.	Angle measuring gauge (combination set)	01 No's
16.	Thermometer	10 No's
17.	Tri Square	05 No's

LIST OF WORKSHOP MACHINERY / EQUIPMENTS

(For DAE class of 50 students)

S.NO	Name of Machinery /Equipments	Quantity
1.	Chain Pulley Block hoist (3-5 ton)	2No's
2.	Hydraulic Car Lift (Post Lift, Seizer Lift, Hydraulic lift)	1 No each
3.	Crane (hydraulic, pneumatic).	1 No each
4.	Spark Plug Cleaner & Tester Machine	1 No
5.	Automotive Tire changer	1 No
6.	Electronic Injector Testing Machine	1 No
7.	Heavy Duty Digital Tire inflator	1 No
8.	Tube vulcanizer	1 No
9.	Tire vulcanizer	1 No
10.	Tire tread depth measuring gauge	2 No
11.	Pneumatic Impact wrenches	5 No
12.	Pneumatic Impact sockets	5 No
13.	Waste Oil Receptacle with neck & funnel	1No's
14.	Hydraulic press with adopter (5 ton)	1 No
15.	Mechanical Arbor press (3 ton)	1 No
16.	Portable Electric Drill Machine	1 No
17.	Bench Electric Drill Machine	1 No each
18.	Buffer & Grinder (Bench & Portable) (6")	1 No each
19.	Radiator Pressure Cap tester	1 No
20.	Hydraulic Jack (3-5 ton)	3 No each
21.	Mechanical Jack (3 ton)	3 No's
22.	Service Creeper trolleys with Led lights	5 No's
23.	Creeper stool type	5 No's
24.	Air Compressor (150- 200L, 5-8 hp)	1 No
25.	Engine oil dispenser	1 No
26.	Storage bin (Metallic make)	10 No's
27.	Tool trolley	10 No's
28.	Work bench	10 No's
29.	Lockers	10 No's
30.	Cabinets	10 No's
31.	Shelf rack	10 No's
32.	Gear box repairing stand	2 No's
33.	Platform truck	2 No's
34.	Oval shape Hydrometer	10 No's
35.	Battery Post terminal cleaner	5 No's
36.	Automotive Stethoscope	5 No's
37.	Soldering gun	5 No's
38.	Battery Charger (1 -50A)	1 No
39.	Battery tester	2 No's

40.	Gas welding Plant	1 No
41.	Arc welding Plant	1 No
42.	Cleaning tank	2 No's
43.	Cylinder boring machine	1 No
44.	Valve grinding & facing machine	1 No
45.	Mini compressor with tire inflator	2 No's
46.	Ramp	2 No's
47.	Differential repair stands	2 No's
48.	Parts tray	10 No's
49.	V-blocks set	1 No's
50.	SST Board	5 No's
51.	Torch light	2 No's
52.	Test lamp	5 No's
53.	Circuit tester	5 No's
54.	Compressed air blow gun	3 No's
55.	Safety Stands	03 Set
56.	Head Light aimer (Mechanical, Optical)	01

**LIST OF INSTRUMENTS/EQUIPEMENTS &
AUTOMOTIVE DIAGNOSTIC TOOLS**
(For DAE class of 50 students)

S.NO	Name of Machinery /Equipments	Quantity
1.	Digital tachometer and dwell tester	2 No's
2.	Compression Gauge (for petrol engine)	5 No's
3.	Compression Gauge (for diesel engine)	5 No's
4.	Vacuum Gauge	5 No's
5.	Cylinder Leakage Tester	5 No's
6.	Ignition Timing Gun(for petrol engine)	5 No's
7.	Ignition Timing Gun(for Diesel engine)	1No's
8.	Digital Multimeter	20No's
9.	Digital Clamp meter (AC/DC up to- 400A)	5 No's
10.	Analogue Multimeter	5 No's
11.	Oscilloscope	1 No
12.	Growler Tester	1 No's
13.	PC Based Automotive Diagnostic Scanner (VIM)with Lap top &multimedia	2No's
14.	Battery Health Tester	01 No
15.	Digital Meters	50 No's
16.	Automotive Peco scope (Oscilloscope)	01 No

17.	Dynamometer (Hydraulic type)	1 No
18.	Exhaust Gas Analyzer (5-Gases)	2No's
19.	Computerized Wheel balancer machine(with all accessories)	1 No
20.	Computerized Wheel alignment apparatus 3D (with all accessories)	1 No
21.	Universal Injector Cleaner kit	2No's
22.	Bench Mounted Injector Tester	1 No
23.	Universal diesel fuel Injection pump Phasing & Calibration machine.	1 No
24.	Dynamometer for testing engine power	1 No
25.	Self Starter test bench	1 No
26.	Roller Tube Brake Tester	1 No
27.	EV's repair tool kit	2 No

LIST OF AUTO BODY REPAIR TOOLS & EQUIPMENT
(For DAE class of 50 students)

S.NO	Name of Tools /Equipment	Quantity
1.	<u>Hammers</u> (Heavy Duty roughing, combination or pick, light dinging, combination dinging, heavy dinging, dinging hammer with short curved pick, offset dinging, Shrinking hammer, dinging hammer with long curved pick, Magnetic trim hammer nylon mallet.	2No's each type
2.	<u>Dollies</u> (High crown dollyblock, Low crown, heavy duty roughing, shrinking, rail type, All-purpose Heel dolly block.	2No's each type
3.	<u>Spoons</u> (Double-end lower back panel, Double-end door and side apron spoon, Heavy-duty drivinbg spoon, Double-end heavy duty driving and fender-beading tool, Highcrown surfacing spoon, Low crown surfacing spoon, Edging tool.	2No's each type
4.	<u>Pick Tools</u> (Short curved pick, Long curved pick, chisel bit pick, Deep throated pick, curved finishing punch, Hooked finishing punch, piercing punch.	2No's each type
5.	<u>File's Holder</u> (Adjustable file holder)	10 No's each type
6.	Files (Long Blocking file, short blocking file, Special contour files, Bumping or Slapping file, Grater file Blades)	10 No's each type
7.	Door hinge wrenches	2No's
8.	<u>Reamer</u> (hand operated)	10 No's
9.	Soldering Gun	10 No's
10.	Burr cutter	10 No's
11.	Buffing pad	10 No's
12.	Reveal molding	10 No's
13.	Door and window handle clip remover	2No's
14.	Vacuum lifter (wind sheild)	5No's
15.	Wind sheild lacing tools	5No's
16.	Blind nut installation tools	10 No's

17.	Heavy duty blind rivet window regulator installation tool	2No's
18.	Universal crease puller	2No's
19.	pneumatic panel edge roll tool	5No's
20.	Grease gun	5No's
21.	Flange tool	10 No's
22.	Bumper Bracket tool	10 No's
23.	Body pull rod	10 No's
24.	Paint spraying equipment	05No's
25.	Jigs for car frame straightening	1 No for recommended car
26.	Jigs for car straightening jacks	1 No for recommended car
27.	Safety Guard For working on machine	30 No's
28.	Axle Stand (Safety Stands)	10 No's
29.	Fire Blanket	05 No's
30.	Face shield	05 No's
31.	Tee Handle (8,10,12,14,16)	02 Each

LIST OF AUTO CAD LAB
(For DAE class of 50 students)

S.NO	Name of Machinery /Equipments	Quantity
1.	Laptop (mini 8GB RAM 256GB SSD)/Computer system complete with all accessories as per TEVTA MIS notification	50-set
2.	Computer Table	50-set
3.	Computer Chair	50No.
4.	Multimedia Projector	1-set
5.	AutoCAD 2025	50-set
6.	Microsoft Windows 10	50-set
7.	Printer	1 No.
8.	Scanner	1 No.
9.	Air Conditioner 3 TON	1NO.
10.	Computer Server with all accessories	1 Set
11.	Internet Facility	1

LIST OF AUTOMOTIVE MODELS
(For DAE class of 50 students)

S.NO	Name of Machinery /Equipments	Quantity
1.	Model of 4-stroke Petrol Engine	1 NO
2.	Model of 2-stroke Petrol Engine	1 NO
3.	Model of 4-stroke Diesel Engine	1 NO
4.	Small Chassis Model with Plexiglas EFI Petrol engine	1 NO

5.	Small Chassis Model with Plexiglas hybrid vehicle	1 NO
6.	Electric Vehicle Model	1 NO
7.	Engine Repair Model	1 NO
8.	Steam Turbine Model (Impeller & Reaction Type)	1 NO
9.	Gas Turbine Model	1 NO
10.	Fire Tube Boiler Model	1 NO
11.	Rotary Air Compressor	1 NO
12.	Petrol engine complete cut-away model	1 NO
13.	Diesel engine complete cut-away model	1 NO
14.	EFI Engine Simulator	1 NO
15.	EFI cut-away parts.	1 NO
16.	Vehicle computer controlled on board diagnose simulator	1 NO
17.	ECT transaxle Gear box Sectional model	1 NO
18.	Manual transaxle Gear box Sectional model	1 NO
19.	4x4W transmission system Cristal model	1 NO
20.	Clutch assembly cut-away model	1 NO
21.	Free wheel hub model	1 NO
22.	Propeller shaft model	1 NO
23.	VVT-I Engine sectional model	1 NO
24.	V-Tech Engine sectional model	1 NO
25.	Wankle Engine model	1 NO
26.	Differential model (Non Slip)	1 NO
27.	Valve train model (V.V.T.I)	1 NO
28.	Cylinder head sectional model	1 NO
29.	Ignition System Model (Distributor less)	1 NO
30.	Starter motor assembly cut-away model	1 NO
31.	Alternator assembly cut-away model	1 NO
32.	Lead acid battery cut-away model	1 NO
33.	Electricity Master Board with all accessories	1 NO
34.	Electromagnetism Master Board with all accessories	1 NO
35.	Relay Cut-out Master Board	1 NO
36.	Vehicle Lighting system trainer	1 NO
37.	Vehicle all electrical/electronic accessories trainer	1 NO
38.	Instruments Panel Gauges Model	1 NO
39.	Power Steering Model	1 NO
40.	Tire construction model	1 NO
41.	Complete strut type suspension system model	1 NO
42.	Wheel balance simulator model	1 NO
43.	Shock absorber cut-away model	1 NO
44.	Rack & pinion type power steering cut-away model	1 NO
45.	Anti-lock Brake system simulator	1 NO
46.	Diesel Engine Instruction Model with Turbo Charges	1 NO
47.	Distributor type diesel fuel injection pump sectional model	1 NO
48.	Inline type diesel fuel injection pump sectional model	1 NO
49.	Driving Education charts	1 NO

50.	Driving trainer	1 NO
51.	Power window trainer	1 NO
52.	Power door lock trainer	1 NO
53.	Logic circuit & logic actual IC's	1 NO
54.	Air Bag Simulator (SRS)	1 NO
55.	Electronic master Kit	1 NO
56.	Pneumatic Air Brake Simulator	1 NO
57.	Traffic Safety Cones	24 NO
58.	Model of Excavator	1 No.
59.	Model of Combine Harvester	1 No
60.	Model of Dozer	1 No
61.	Model of Motor Grader	1 No
62.	Model of Thresher	1 No
63.	Model of Hay Baler	1 No
64.	Model of Potato Digger	1 No
65.	Model of Cotton Stripper	1 No
66.	Model of Planter	1 No
67.	Model of Seed Drill	1 NO
68.	Model of Combined Harvester	1 NO
69.	Drone Spraying Model	1 NO
70.	Solar Irrigation Model	1 NO

LIST OF SAFETY & PROTECTION EQUIPEMENTS

(For DAE class of 50 students)

S.NO	Name of Machinery /Equipments	Quantity
1.	Fire Extinguishers (DCP 6-8kg, CO2 8kg)	3 No each
2.	Safety goggles	10 No's
3.	First Aid Box	10 No's
4.	Apron/ Proper uniform	55 No's
5.	Dust Mask	55 No's
6.	Safety shoes	55 No's
7.	Ear Muff	10 No's
8.	Safety Gloves set(Leather, rubber & Cotton)	55 No's
9.	Sand Storage buckets for fire fighting	10 No's
10.	Water Storage buckets for fire fighting	10 No's

LIST OF ENGINES/TRANSAXLES/VEHICLES

(For DAE class of 50 students)

S.NO	Name of Machinery /Equipments	Quantity
1.	Petrol engine(4-cylinder VVT-I &i-VTech) (Used & in Good working condition with stand)	5 NO'S
2.	Petrol engine (Multi cylinder with carburetor) (Used & in Good working condition with stand)	1 NO'S
3.	Manual transaxle(Synchromesh type)	5 NO'S
4.	ECT Automatic planetary gear transaxle	5 NO'S
5.	ECT Automatic CVT gear transaxle	5 NO'S
6.	Generator (China make 7KVA)	2 No's
7.	Petrol engine (70-80 cc) (Used & in Good working condition with stand)	2 NO'S
8.	Petrol engine (100cc, 125cc) (Used & in Good working condition with stand)	3 NO'S
9.	Diesel engine (multi cylinder with EFI) (Used & in Good working condition with stand)	5 NO'S
10.	Car equipped with manual transmission (Used in Good working condition model not old than 10 years)	1 NO
11.	Car l equipped with automatic transmission (Used in Good working condition model not old than 10 years)	1 NO
12.	Hybrid car with automatic transmission	1 NO
13.	Electric car with automatic transmission	1 NO
14.	Motorcycle (minimum 70cc) (Used in Good working condition model not old than 5 years)	1 NO
15.	Motorcycle (minimum 125cc) (Used in Good working condition model not old than 5 years)	1 NO
16.	ELECTRIC MOTORCYCLE	1 NO

List of Tools & Equipment/ Machinery for Farm Machinery

Sr. No.	Nomenclature of Equipment / Tools	1.1.1.1.1.1.1.1 Quantity
1.	Tractor min 50 Hp and min 80 Hp	1 No Each
2.	Tractor 4wd min 85 Hp	1 No.
3.	Excavator (optional)	1 No.
4.	Self-propelled vibrating Road compactor (optional)	1 No.
5.	Motor grader (Optional)	1 No.
6.	Bulldozer (Optional)	1 No.
7.	Power shovel (optional)	1 No.
8.	Combine harvester (optional)	1 No.
9.	Sugar cane planter (optional)	1 No.

10.	Sugar cane harvester (Optional)	1 No.
11.	M.B plough	1 No
12.	Disc plough	1 No
13.	Sub soiler	1 No
14.	Chisel plough	1 No
15.	Tine Cultivator 11 tines	1 No
16.	Rotavator min 48 Blade	1 No
17.	Multi crop thresher	1 No.
18.	Soil Augur Sampler	10 No.
19.	Soil texture tester	01 No.
20.	Oven for soil moisture testing	01 No.
21.	Drone Sprayer	01 No.
22.	Water Testing Kit	01 No.
23.	Disc harrow	1 No
24.	Boom sprayer machine	1 No
25.	Knap Sack Spray Machine	5 No's
26.	Seed drill & Planter	1 No each
27.	Potato digger	1 No
28.	Wheat thresher	1 No
29.	Rigger	1 No
30.	Border disc	1 No
31.	Centrifugal pumps of tube well	1 No
32.	Wheat Reaper	1 No
33.	Farm tripping trolley Hydraulic	1 No
34.	Peter engine 16-18 Hp	1 No
35.	Lawn Mover	1 No
36.	Land leveler	1 No.
37.	Planker	1 No.
38.	Front bucket	1 No.
39.	Fertilize Broad caster	1 No.
40.	Kurpa, Kassi, Kasola,	50 Each
41.	Wheel barrow	2 No.
42.	Post hole digger	1 No.
43.	Portable mechanical reaper	2 No.
44.	Potato digger	1 No.
45.	Fork lift truck 3 ton	1 No.
46.	Mold board plough	1 No.
47.	Front blade	1 No.
48.	Rear blade	1 No.
49.	Lase land leveler	1 No.
50.	Adjustable pintle hook	1 No.
51.	Jib Crane	1 No.
52.	Walk in tunnel min 20' x 60'	1 No.
53.	Trickle irrigation unit ½ Cusec	1 No.
54.	Water Sprinkler min 8 unit set	1 No.

55.	Straw Chopper	1 No.
56.	Hay Bailer	1 No.
57.	Bar Harrow	1 No.