

## LABORATORY AND WORKSHOP

### MAJOR EQUIPMENT

#### Department Of Electronics Engineering

Sr. No.	ITEM	Qty
1	FIBRE OPTIC KITS	1
2	SPECTRUM ANALYSER	1
3	REAL TIME DSO	1
4	LASER TRAINER KIT	1
5	CATHODE RAY OSCILLOSCOPE	15
6	DIGITAL STORAGE OSCILLOSCOPE	1
7	PATTERN GENERATOR	2
8	UNIVERSAL TESTBENCH	2
9	COLOUR TV TRAINER	1
10	FUNCTION GENERATOR	10

#### Department Of Automobile Engineering

##### **AUTOMOBILE ENGINEERING LAB**

SR.NO	EQUIPMENT DETAILS
1	CUT SECTION MODEL OF JEEP
2	CUT SECTION MODEL OF CAR
3	MODEL OF STEERING SYSTEM
4	FIVE TYPES OF PISTONS
5	FUEL SUPPLY SYSTEM OF A DIESEL ENGINE
6	THREE TYPES OF CONNECTING RODS
7	DIESEL INJECTION NOZZLE/INJECTOR
8	DYNAMO ASSEMBLY
9	STARTER ASSEMBLY WITH SOLENOID
10	CUTOUT REGULATOR
11	ALTERNATOR 12V
12	CUT SECTION MODEL OF HERO HONDA ENGINE
13	ASHOK LEYLAND 6-CYLINDER DIESEL ENGINE
14	AIR CONDITIONING TRAINER BOARD
15	INDUCTION AND EXHAUST SYSTEM OF A TURBOCHARGED ENGINE (TRAINER BOARD)
16	MPFI SYSTEM (TRAINER BOARD)
17	CRDI SYSTEM (TRAINER BOARD)

18	BATTERY CHARGING RIG
19	DIAPHRAGM CLUTCH MODEL
20	CUT SECTION OF HONDA ACTIVA SCOOTER ENGINE
21	HYDRAULIC POWER STEERING (TRAINER BOARD)
22	TURBOCHARGER (CUT SECTION)
23	TRANSAXLE (CUT SECTION)
24	TRANSFER CASE (CUT SECTION)
25	HONDA ACCORD ATS (CUT SECTION)
26	FUEL PUMP CALIBRATION & PHASING EQUIPMENT

### **AUTO MODELS LAB**

<b>SR.NO</b>	<b>EQUIPMENT DETAILS</b>
1	INSTRUCTION MODEL 2-STROKE PETROL ENGINE
2	INSTRUCTION MODEL 4-STROKE PETROL ENGINE
3	INSTRUCTION MODEL 2-STROKE DIESEL ENGINE
4	INSTRUCTION MODEL 4-STROKE DIESEL ENGINE
5	SECTIONISED GEAR BOX SYNCHROMESH TYPE M299
6	SECTIONISED HYDRAULIC BRAKE SYSTEM M302
7	DIFFERENTIAL MODEL
18	TRACTOR MODEL
19	STEERING MODEL

### **AUTO WORKSHOP**

<b>SR.NO</b>	<b>EQUIPMENT DETAILS</b>
1	TATA INDICA CAR
2	SINGLE CYLINDER 5HP DIESEL ENGINE TEST RIG WITH ROPE BRAKE DYNAMOMETER
3	TWO CYLINDER ELGI AIR COMPRESSOR
4	TWO CYLINDER CI ENGINE
5	FOUR CYLINDER MATADOR CI ENGINE
6	FOUR CYLINDER CI GENERATOR SET
7	INJECTOR TESTER
8	SPRAY PAINTING GUN
9	TURBOCHARGED MARUTI OMNI ENGINE (STUDENTS PROJECT)
10	5-SPEED GEAR BOX (TATA)

## **AUTO BODY SHOP**

<b>SR.NO</b>	<b>EQUIPMENT DETAILS</b>
1	GAS WELDING EQUIPMENT
2	ARC WELDING MACHINE
3	POWER HACK-SAW
4	PILAR DRILLING MACHINE
5	PEDASTAL GRINDER
6	ANGLE GRINDER

## **Computer Engg.**

### **List of Equipment**

#### **Computers**

<b>Lab</b>	<b>Specification</b>	<b>Quantity</b>
Computer Engg. Lab	Computer Model : OptiPlex 5060 OS Version : Microsoft Windows 10 Pro Manufacturer: Intel(R) Core(TM) i5-8500 CPU @ 3.00GHz RAM : 4GB HDD : 1 TB DVD/CD-ROM Drives : PLDS DVD+-RW DU-8A5LH Disk Drives : ST1000DM010-2EP102 Display Adapters : Intel(R) UHD Graphics 630	20
CCA	System Manufacturer Dell Inc. System Model OptiPlex 9010 Processor Intel(R) Core(TM) i5-3470 CPU @ 3.20GHz, 3201 Mhz, 4 Core(s), RAM : 4.00 GB HDD: 500 GB DVD R/W Monitor : 19" LCD USB keyboard, USB optical mouse, Onboard LAN, on board sound card, 6 USB ports	20

Harware &  
Networking Lab

MBD: DQ3510J\_  
Processor: Intel(R) Core(TM)2 Duo  
CPU E8400 @ 3.00GHz, 2997 Mhz, 2  
Core(s),  
RAM : 1.00 GB DDR2  
HDD: 150 GB  
Monitor : 19" LCD  
USB keyboard, USB optical mouse,  
Onboard LAN, on board sound card, 6 USB ports  
MBD: DQ3510J\_  
Processor: Intel(R) Core(TM)2 Duo  
CPU E8400 @ 3.00GHz, 2997 Mhz, 2  
Core(s),  
RAM : 1.00 GB DDR2  
HDD: 150 GB  
Monitor : 19" LCD  
USB keyboard, USB optical mouse,  
Onboard LAN, on board sound card, 6 USB ports

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### **UPS**

- 5KVA online ups 1 nos
- 600 VA 20 nos

### **Printers**

- Canon laser mono (2nos)
- Epson Dot matrix (1no)
- Canon 3 in one (1no)

### **Network switches:**

D-Link 24 port switches (4 nos) CCA+CE lab

## **Department Of Medical Electronics Engineering**

### List of Major Equipment

1. Digital Colorimeter
2. 3 Channel ECG Machine
3. PC based spirometer
4. Optical Microscopes (2 Nos)

## Department Of Mechanical Engineering

<u>Metrology &amp; Quality Control Lab</u>		
Sr.No	List of Equipments	
1	Vernier Calliper	-
2	Micrometer Screw Gauge	
3	Slip Gauges	
4	Sine Bar	
5	Angle Gauge	
6	Dial Gauge with stand	
7	Profile Projector	
8	Toolmaker's Microscope	
9	Model of Gear train	
10	Models of Cam and Follower	
11	Model of Belt drive	
12	Model of Beam Machine	
13	Model of Slider Crank Mechanism	
14	Model of Oldham Coupling	
15	Model of Quick return Mechanism	
16	Model of Hydraulic boom	
17	Model of Elliptical trammel	
18	Model of Band brake	
19	Model of Oscillating follower	

### Metallurgy Lab

Sr.No	List of Equipments
1	Metallurgical Microscope
2	Specimen Polishing Machines
3	Bomb Callorimeter
4	Digital Techometer
5	Domestic Refrigerator
6	Split Air Conditioner
7	Window Air Conditioner
8	Vapor Compression Refrigeration System
9	Hermatically Sealed Compressor