

PDEA's

Mamasaheb Mohol College Paud Road

Pune-38

Innovative Ecosystem

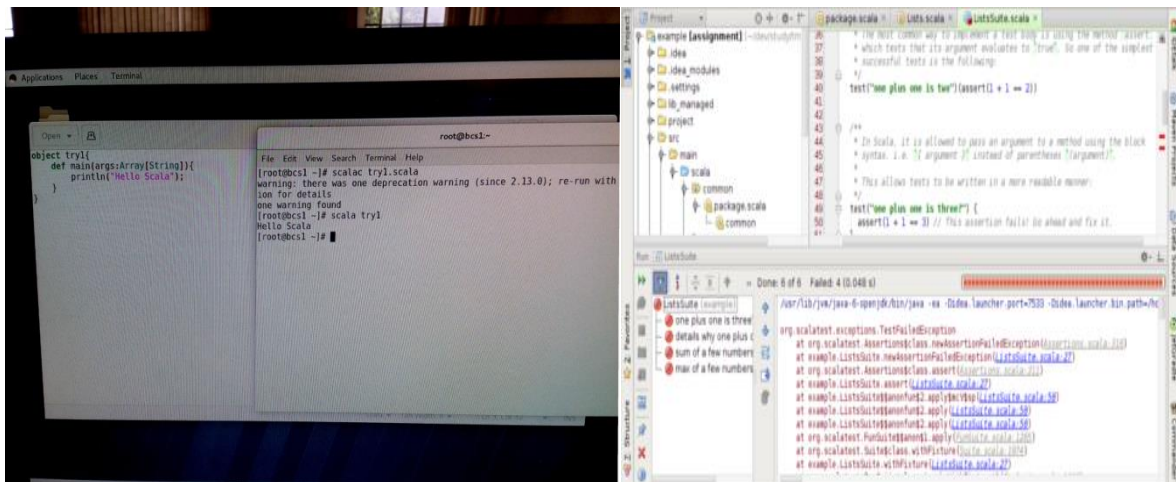
Innovative Ecosystem Facilities

College has established Incubation Centre to enhance and motivate students through different practical's that takes place in various laboratories. These are application based practical through which they inculcate need based innovations in their future.

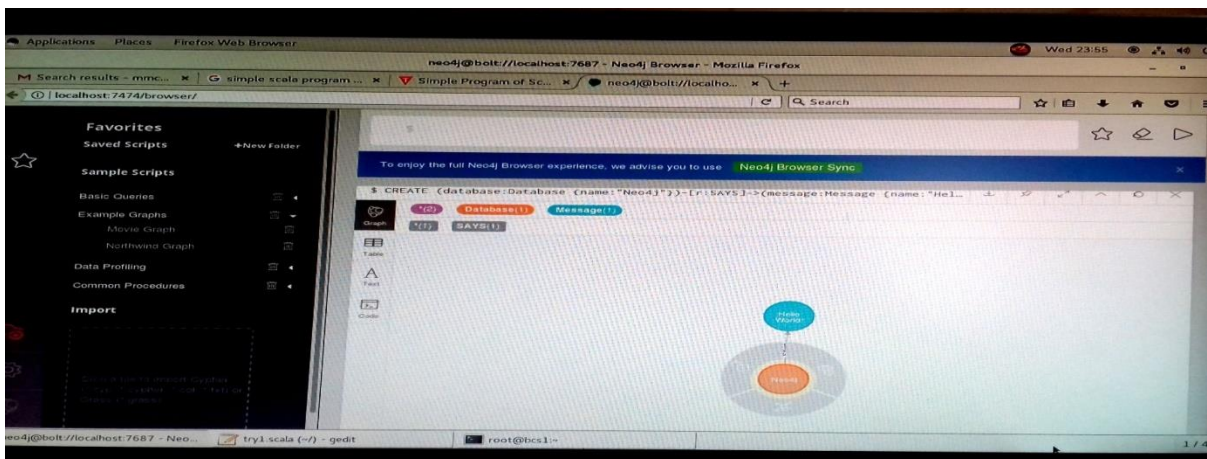
Computer Lab: Software in Computer Lab

Scala Programming on Red hat Operating system

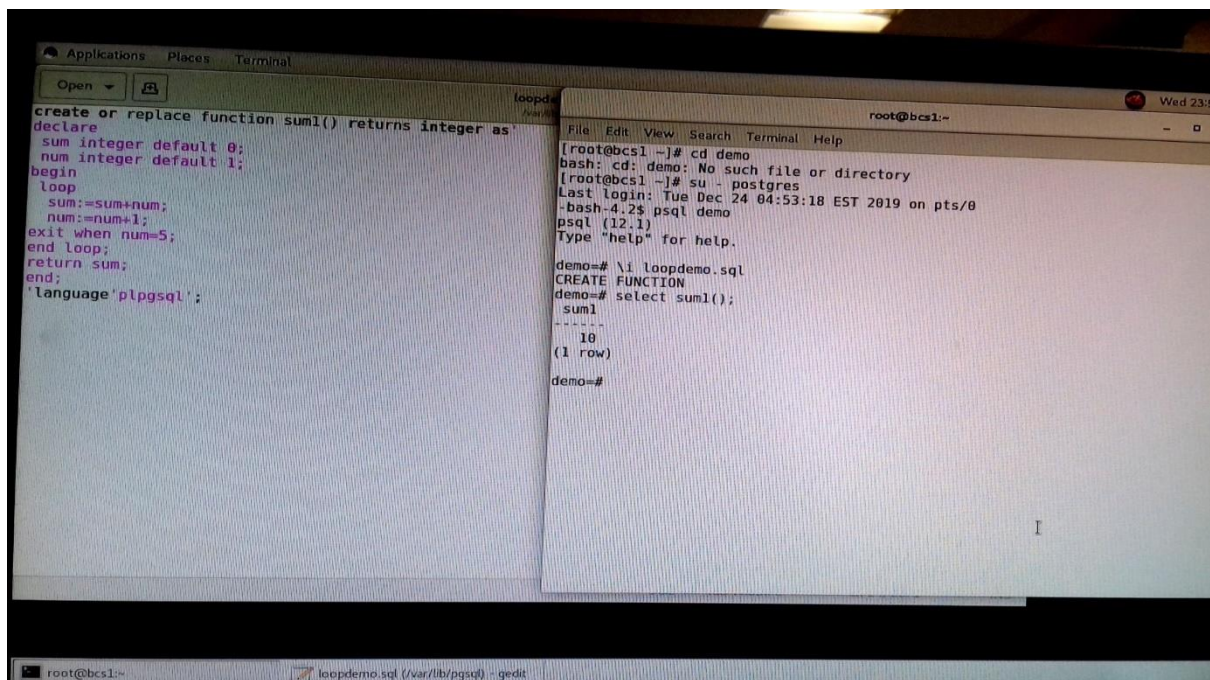
Scala is marketable and functional language. Many companies like Twitter, LinkedIn, Foursquare, etc are using Scala.



Neo4j Graph - Database system



Postgresql Database software



```
create or replace function sum1() returns integer as
declare
sum integer default 0;
num integer default 1;
begin
loop
sum:=sum+num;
num:=num+1;
exit when num=5;
end loop;
return sum;
end;
'language plpgsql';

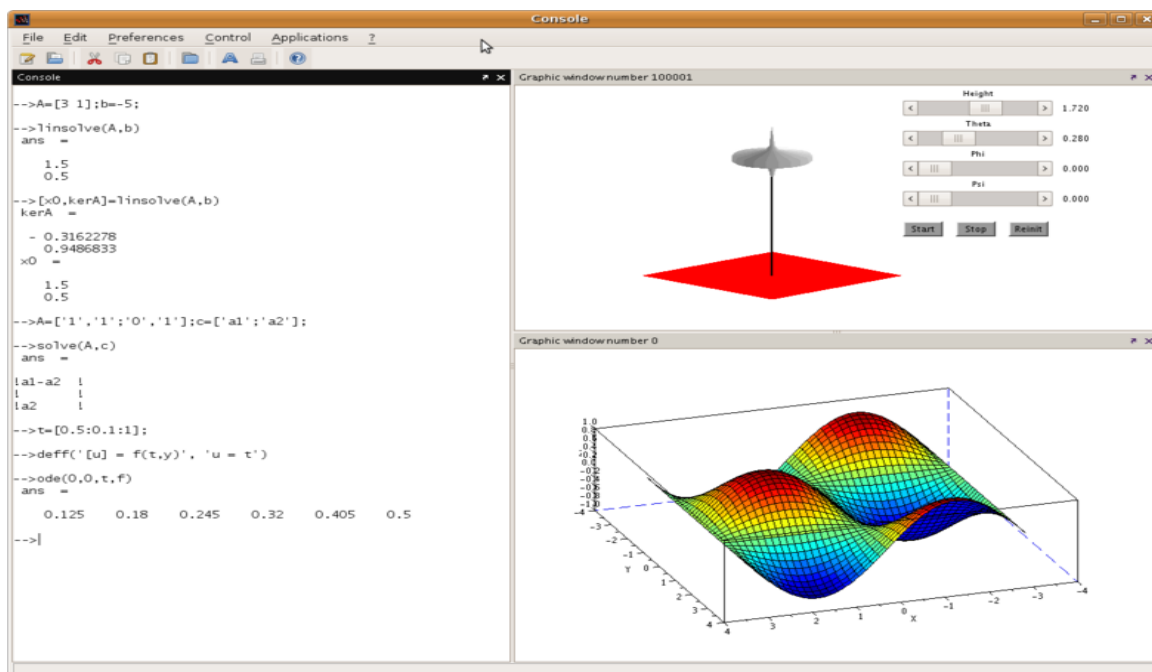
[root@bcs1 ~]# cd demo
bash: cd: demo: No such file or directory
[root@bcs1 ~]# su - postgres
Last login: Tue Dec 24 04:53:18 EST 2019 on pts/0
-bash-4.2$ psql demo
psql (12.1)
Type "help" for help.

demo=# \i loopdemo.sql
CREATE FUNCTION
demo=# select sum1();
sum1
-----
10
(1 row)

demo=#
```

Sailab software

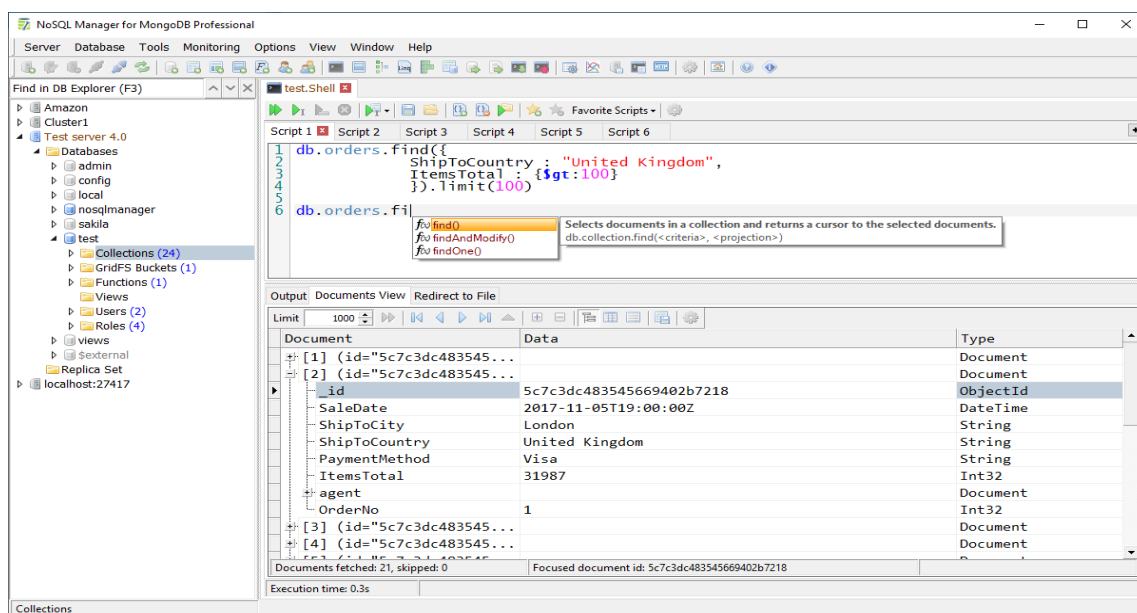
Scilab is free and open source software for numerical computation providing a powerful computing environment for engineering and scientific **applications**



MongoDB

MongoDB is a high-performance, open source, schema-free document-oriented data store that's easy to deploy, manage and use. It's network accessible, written in C++. Database software is a software program or utility used for creating, editing and maintaining database files and records. This type of software allows users to store data in the form of structured fields, tables and columns, which can then be retrieved directly and/or through programmatic access.

MongoDB Programming



Students performs practical in a computer lab

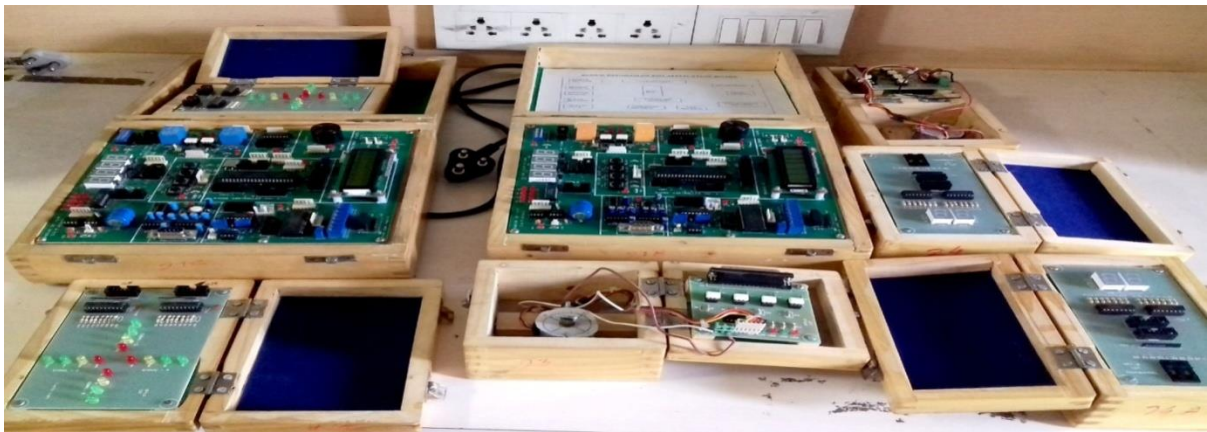


Electronics Lab Instruments and kit

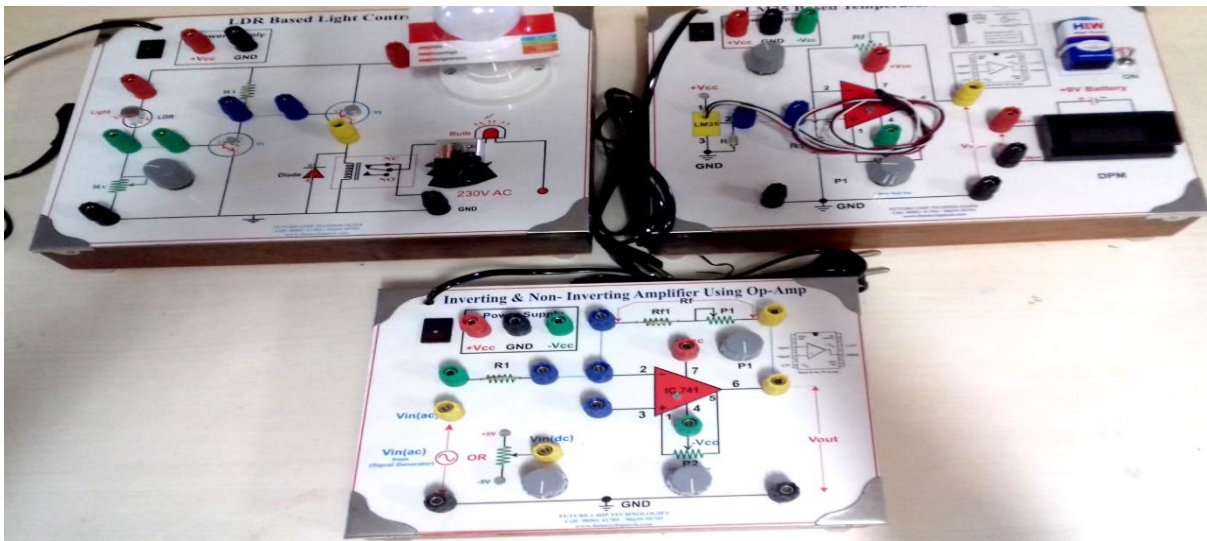
Measuring Instruments and testing



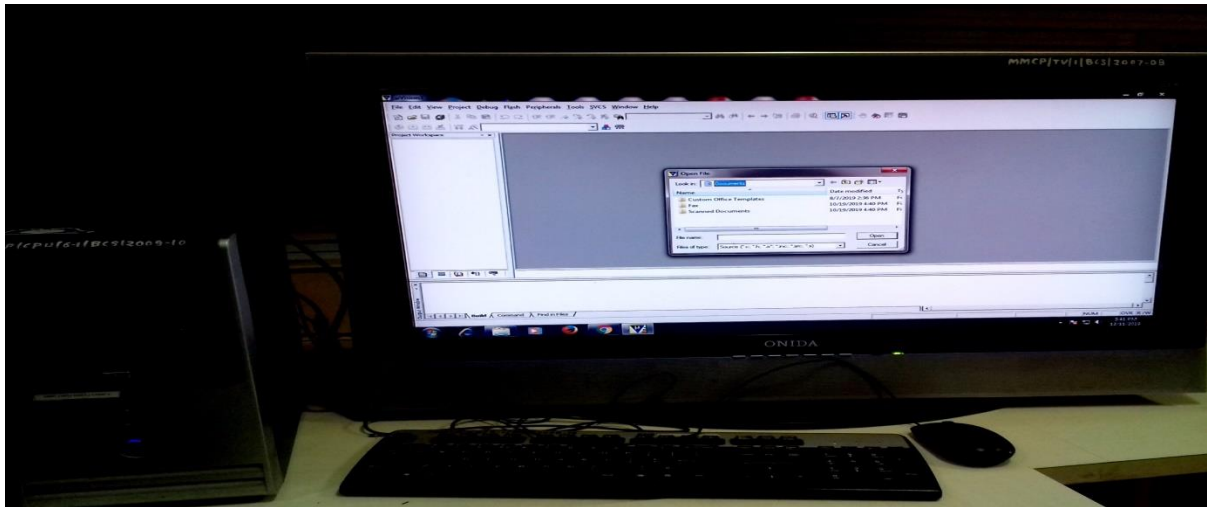
Embedded system Development Kit



Light Control System



Embedded System Integrated Development Environment (IDE)



Students create small application using measuring instruments



Innovation of Students

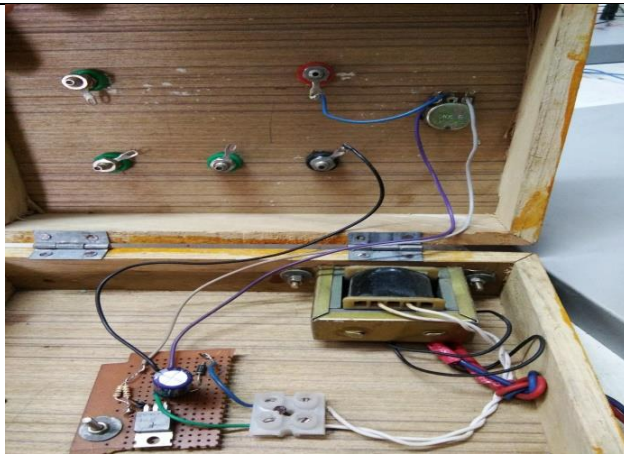


Students Design simple washing machine model



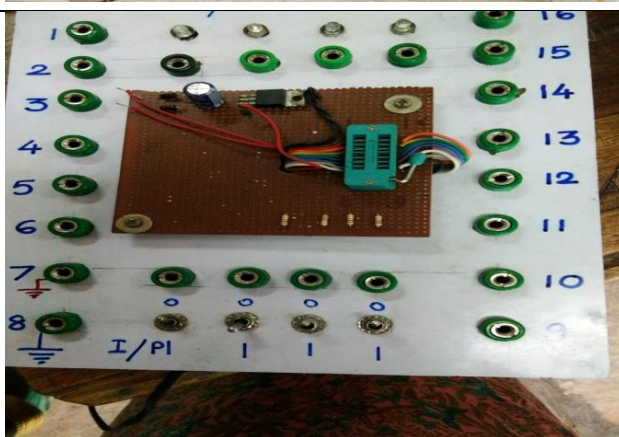
Electric car design by students

Electrical Lab and Electrical Kit



Kirchhoff's Law Trainer kit

- 1) Kirchhoff's current law
- 2) Voltage law
- 3) Testing
- 4) Verification



Digital Trainer kit

- 1) Used for testing of digital IC's
- 2) Verification of truth table



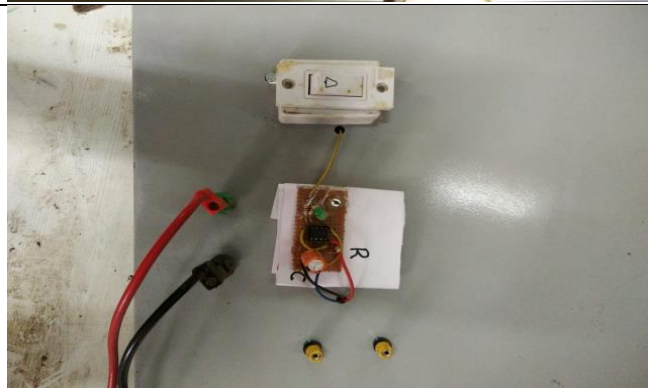
Different Mobile spare part showcase



Traffic Signal circuit

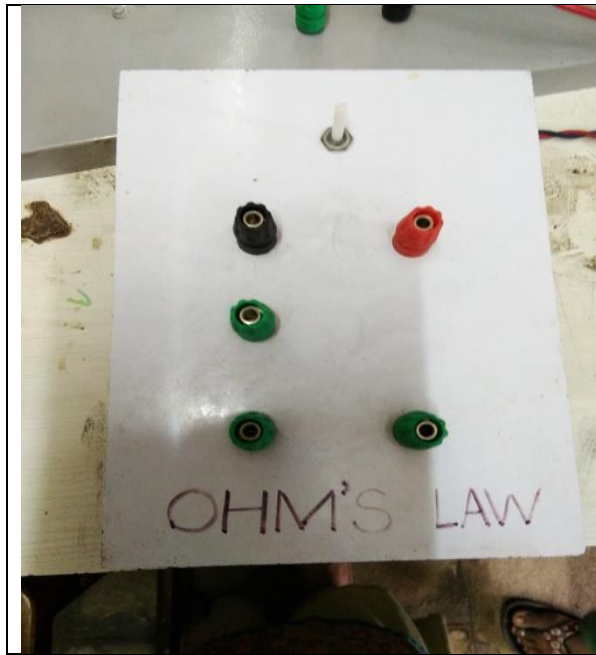


Secret code Lock
1)Use for security purpose of any electrical load just like computers



One short circuit metastable multi vibrator

Timer circuit for load like motor, computer and TV



Ohm's Law Trainer kit
Used for verification of ohm's law in laboratory.

Automobile Technology and Machinery



Two-wheeler Hero Honda splendor
For practical purpose



Rear axle with differential cut section
model for study purpose.



Hydraulic brake system

This system is use in four-wheeler for brake system

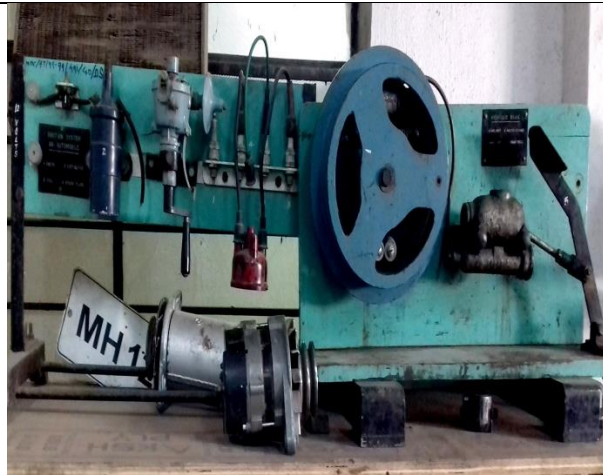


LPG Kit (Fuel supply system)

- 1) Auto rikshwa
- 2) In Four-wheeler LPG kit used instead of petrol supply.



Differential working Model Diesel injector testing machine Spark plug cleaner



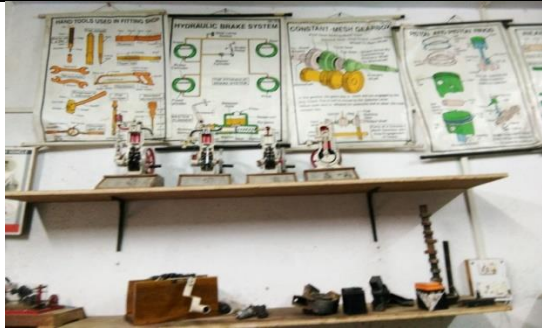
**Hydraulic Brake working model
Fuel injection pump cut section model.**



Dismantled Scooter engine Part



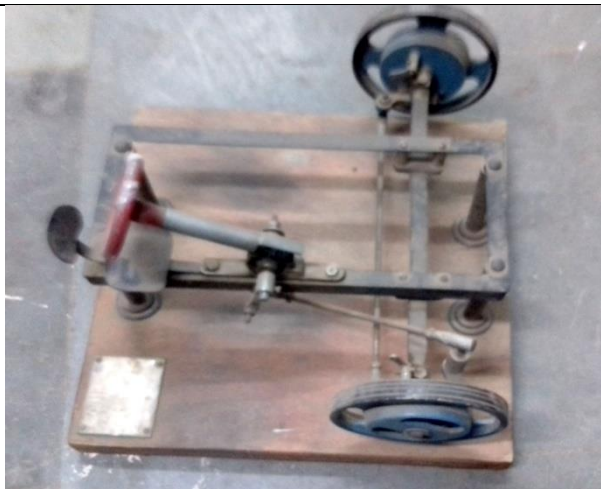
**Compressor
For filling air in wheel tube
For cleaning Engine part like
carburetor
Air pressure for painting,**



- 1) Two stroke petrol engine working model.
- 2) Four stroke petrol engine working model.
- 3) Two stroke diesel engine working model.
- 4) Four stroke diesel engine working model.



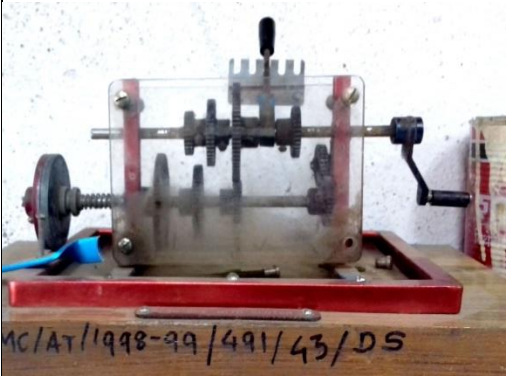
Arc Welding Machine
For making joints



Steering System
For turning vehicle right or left



Piston with cranke shaft
Working model of piston connecting rod cranke and cylinder block.

	Gear Box Working model of sliding mesh gear box.
	Growler machine This machine is for testing Armature of starting motor or generator.
	Fuel injection pump Cut section working model of diesel fuel injection pump for study purpose



Battery charger machine
Use for charging vehicle batteries



Vulcanizer Machine
Use for making hot patch for tube



Car washer
Use for washing car