



# One Day Workshop Report

## One Day Workshop on Automotive Engine Overhauling

### Objectives:

To make the students aware from the fundamentals and working of Automobile Vehicle with the help of Practical Visualization which are really very useful in Daily Life.

### Expert:

**Mr. Rameshbhai M. Patel**  
Owner and Technician,  
Renuka Auto Center, Unjha.

### Workshop co-ordinator:

**Prof. Nanji N. Chaudhary**  
Mechanical Engg. Department,  
SRPEC.

### Summary:

Expert introduced the students about Working of all parts of motorcycle with practical visualization.

### Topics :

- Principle and Working of Two Stroke Engine, Four Stroke Engine, Single Cylinder and Multi Cylinder Engine and firing order
- Gearbox and Transmission System, Brakes, clutches, drive and other components of Two Wheeler
- Small Scale Maintenance and Practice
- Engine Overhauling
- Practical Demonstration of all components of two wheelers



### DETAIL OF WORKSHOP

Workshop was started at 08:45 AM. The lecture was started by the introduction about Automobiles, types of Engine and types of Internal Combustion engines. In First Session Expert explained working of four stroke engine, engine head, piston, cylinder, valve and cam shaft mechanism, Engine starting system, carburetor, air- fuel ratio, combustion chamber etc. by practical visualization. In second session after lunch expert explained about clutch mechanism, brake mechanism, gearbox, lubrication system, lighting system, chain drive, suspension system etc. with the help of Practical Visualization. All components of motor cycle are disassembled by expert and students ,explained by expert and assembled by expert and students.

Feed back from Participants	Excellent	Very good	Good	Inadequate
1. Relevancy of Topics	100%	0%	0%	0%
2. Overall Quality of Contents	96.97%	3.03%	0%	0%
3. Value Addition	96.97%	3.03%	0%	0%
4. Communication by Faculty	96.97%	3.03%	0%	0%

### Workshop Participant :

Workshop was organized for students of 6<sup>th</sup> semester Mechanical Engineering and other interested students from inside and outside of the institute. There were 36 student participants and 2 faculty member of Mechanical Engineering Department were present in the workshop .