## ENG 244.2

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ENGINERING WORKSHOPE PRACTICE

Automobile: -> An automobile is a seef-propelled vehicle driven by an internal combination engine and is used for transportation of passengers and greds on ground. Example Bus, car, Jeep, track, tractor, scooler, Motor cycle.

The Modern antomobile, in general, is essentially a transportation equipment unit. It consists of a "Frame" supporting the "body" and certain "power developing and transmitting units! which are Further supported by "tyres" and whiles! Mornight "springs and ardres".

An engine supplies the power, which is de livered by the "transmission systems" to thewhells through the Clutch or fluid coupling.

Automobile engineering: -> Automobile or automobile or automobile engineering is a branch of engineering in which we study all about the automobiles and have prouted to propel them.

Mobile or motive: Means one which can move. Lutomobile or automotive Means one which Feself can move.

## PARTS OF AN AUTOMOBILE

Every automobile consists of the following two main parts:

1) Machine Portion

(2) Carriage portion i.e. Body.

Machine Portion: Every automoto; le irrespective of its Country of Manufactur or model Consists of the following Amee basic units:

The Chassis and transmission

(i) The engine

(ii) The electrical equipment.

## Chassis:

This part of the automobile supports fts body; engine and transmission system.

The automotive chaises i'ncludes the fillmy

1 Reframe

(ii) Springs and Shock absorbers.

(iii) Brakes

(iv) Tyres on I wheels.

## Transmission:

This unit transmits the power from the engine to the wheels.
It consists of the following:

1 Clutch

- 1 Genr box
  1 Universal doing.
  1 Final drive
- 5-txles and differential.

The Engine: An engine in an automobile is the source of power. A petrol engine Consists of the following four basic system DFULL SYSTEM: This system mixes petrol with air in the right proportion to gove a mixture which when bound produces pressure. This pressure is the used to move the pistons.

(i) Ignition System! This system of the engine provides regular sparks to set fire to the mixture coming from the fuel system.

III) Lubricating System: This systems Lubricated the moving Parts of the engine so that they can work smoothly.

(IV) Cooling system: This system with the help of water cools the engine and prevents it from getting hot.