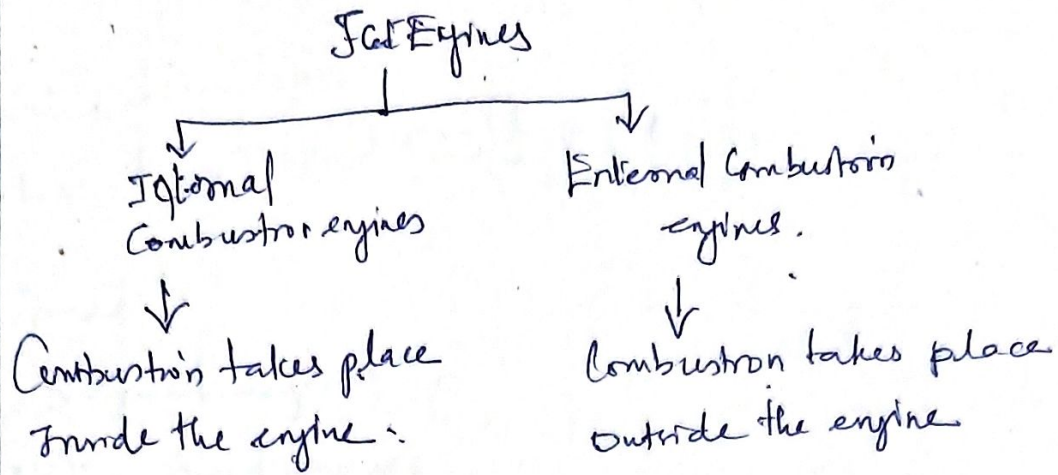


Unit II Internal Combustion engines



IC Engines are classified as

- 1) No of strokes
 - (i) Two stroke engines
 - (ii) Four stroke engines
- 2) Thermodynamic Cycle
 - (i) Otto cycle
 - (ii) Diesel Cycle
 - (iii) Dual Combustion Cycle
- 3) Fuel used
 - (i) petrol or gasoline
 - (ii) Diesel engines
 - (iii) Gas engines
- 4) Cylinder design
 - (i) Vertical engines
 - (ii) Horizontal Engines
 - (iii) V type engines
 - (iv) Inline engines
 - (v) Opposed engines.
- 5) Ignition methods
 - (i) Compression Ignition
 - (ii) Spark Ignition engines

Cooling Systems

- (i) Air Cooling Systems (ii) Water Cooling System

Valve Locations

- (i) L-head (ii) T-head (iii) I-head (iv) F-head

Speed

- (i) Low Speed engines
(ii) Medium Speed engines
(iii) High Speed engines

Applications

(i) Stationary engine

(ii) Mobile engines

(iii) Portable engines.

↓
Standby power plant engines.

→ sub stations,
Agriculture pump set
Laboratories.
Automobiles
Ships and boats
Aeroplane engines
Train engines.

According to the Cycles

(i) Four Stroke Cycle Engines

Diesel and petrol

(ii) Two Stroke Cycle engines

Diesel and petrol engines