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Notes

INTERNAL COMBUSTION ENGINE &  
GAS TURBINES Module - I  
INTRODUCTION Heat engine: A  
heat engine is a device

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which transforms the chemical energy of a fuel into thermal energy and uses this energy to produce mechanical work. It is classified into two types-

- (a) External combustion engine
- (b) Internal

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combustion engine External  
combustion engine:

Internal combustion Engines  
notes PPT - Blogger

In an internal combustion  
engine, the combustion of  
the fuel takes place within

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a combustion chamber in the presence of a suitable oxidiser (air, most often).

The resultant rise in temperature and pressure from the combustion causes the movement of a specific part of the engine, the

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piston for example.

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from various students and

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student easily grasp the concept and become able to solve the IES and Gate problems.

Solved Problems: Internal  
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An internal combustion

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engine is a heat engine where the combustion of a fuel occurs with an oxidizer in a combustion chamber that is an integral part of the working fluid flow circuit. In an internal combustion engine, the expansion of the

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high-temperature and high-pressure gases produced by combustion applies direct force to some component of the engine. The force is applied typically to pistons, turbine blades, rotor or a nozzle. This

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force moves the component  
over a distance,  
transforming ch

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In 1794 Thomas Mead patented  
a gas engine. Also in 1794

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Robert Street patented an internal combustion engine, which was also the first to use the liquid fuel (petroleum) and built an engine around that time. In 1798, John Stevens designed the first American internal

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combustion engine.

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This course studies the  
fundamentals of how the  
design and operation of  
internal combustion engines

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affect their performance, efficiency, fuel requirements, and environmental impact. Topics include fluid flow, thermodynamics, combustion, heat transfer and friction phenomena, and fuel

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application of the G-  
equation flamelet theory is  
given by the simulation of  
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direct-injection (SG-SIDI)

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The combustion of fuel in  
the presence of air takes

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place inside the cylinder and the products of the combustion directly act on the piston to develop power. (Ex)Petrol engines, Diesel engines, Gas engines

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Internal combustion engines are those in which power is produced by burning fuel inside a combustion chamber or a cylinder containing a piston which goes up and

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down in a reciprocating motion resulting from the combustion. 2. Extending down from the piston is a connecting rod which links the piston to the crankshaft. The connecting rod and crankshaft convert

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the reciprocating motion of  
the piston into a rotating  
motion.

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- An internal combustion engine (ICE) is a heat engine where the combustion

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of a fuel occurs with an oxidizer (usually air) in a combustion chamber that is an integral part of the working fluid flow circuit.

- An IC engine is fed with fossil fuels like natural gas or petroleum products

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such as gasoline, diesel fuel or fuel oil. 3.

NOTICE - U.S. Customs and Border Protection  
Solved Problems: 1. A trial carried out in a four stroke single cylinder gas engine

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gave the following results.  
Cylinder dia=300 mm, Engine  
stroke=500mm, Clearance  
volume=6750cc, Explosions  
per minute=100 P max KN/m<sup>2</sup>  
= 765 Net work load on the  
brake=190kg Brake dia=1.5m  
Rope dia=2 5mm, Speed of the

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engine=240rpm, Gas used=30 m<sup>3</sup> /kg hr , Calorific value of gas=2 0515 KJ/ m<sup>3</sup>.

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