

# “Role of Mechanical Engineer in Oil & Gas industry”

By

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A talk on the topic “**Role of Mechanical Engineer in Oil & Gas industry**” was delivered by **Mr.** on 22 February 2020 as a Departmental Forum Activity.

Initially, In the talk he asked the students about their current knowledge in oil&gas industries.he explained the current situation of these industries in India including the MAHA RATNA companies present in India.



### **Students and faculties During the talk**

He spoke about the forms of crude oil present around and also the natural gases produced along with that. Then he explained about the available locations of naturally formed crude oil resources and refineries in India. Location of these oil resources are found by exploration through ships and the transportation of these resources from one place to another takes place eventually.

The ships are also classified on different basis like the length of sea lumps and according to that the ships are given permission to explore around different places for the search of crude oil & natural gases. He also gave explanation about how safety measures are taken during the transportation of these resources in the ships.

He further spoke about the refineries which are present in India among which Jamnagar he mentioned is huge structure out of that. He also encouraged students to visit these refineries which will provide them a great knowledge about industrial culture works and ethics. He gave further description about the quality of fuels

and their purity level test measurements. He gave explanation about the location of MRPL&OMPL land coverage in Mangalore. This land almost covers about 3000 acres of area available. As moving to the industry field he spoke about planning a refinery/industry which requires different certificates and licences from various Pollution Control boards of state and Central Governments such as KSPCB & CPCB. He explained about the role of different engineers during designing phase of the plant for the layout purpose.

He explained how the refinery should meet the Standards which are established by ASME and other Foreign bodies and certificates for the standards has to be Obtained.



### **Safety Gears provided in Industries**

He majorly focused the safety measures and Precautions which are Taken for the proper reservation of these resources. The working Environment doesn't allow the mistakes in handling of working process as it can be very hazardous for the people around there. He also explained about safety Gears and Equipments which are provided to the employees who work close to these resources. The usage of any type of flammable substances is strictly prohibited which will violate the safety measures in industries.





## Compressor in Industries

He Explained the Major role of Mechanical engineers in these Industries is the maintenance of static and dynamic mechanical parts which are in use for the working process in these Industries.he spoke about various maintenance of Dynamic mechanical parts like compressors and pumps which is the main domain for mechanical engineers to maintain for its proper working.the working permissions has to be obtained before any further steps which is very crucial as viewed from safety point of view.He explained about the other working domains for mechanical engineers which includes 3D modelling and control room operations.





**Dr. R K rao receiving the memento from prof K V Suresh**

Concluding the talk he motivated the students to get into these sector for the better Future.