

**ME-463**  
**PETROLEUM ENGINEERING**

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**Quamrul Islam Sir**



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# 1 Lecture 01: Introduction

Date: 03/06/2023

## Booklist

Introduction of Petroleum Geology & Drilling

Published by BUET

## Basics

Latin: **Petra** → Rock or Stone

Latin: **Oleum** → Oil

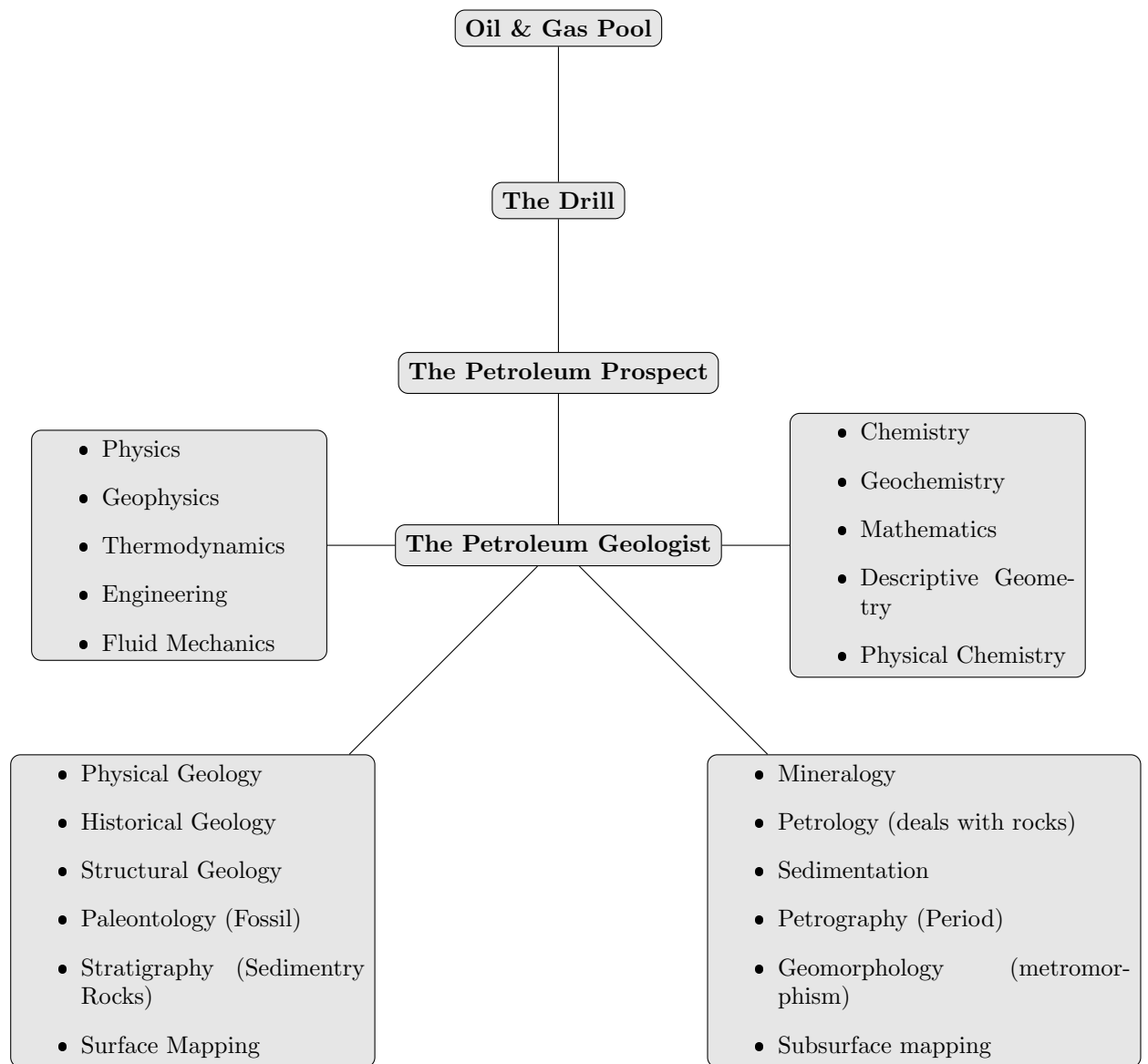
So, Petroleum basically means "Rock Oil"

Petroleum occurs widely in the earth as gas, liquid, semi-solid or solid, or in more than one state in a single place.

## Definition

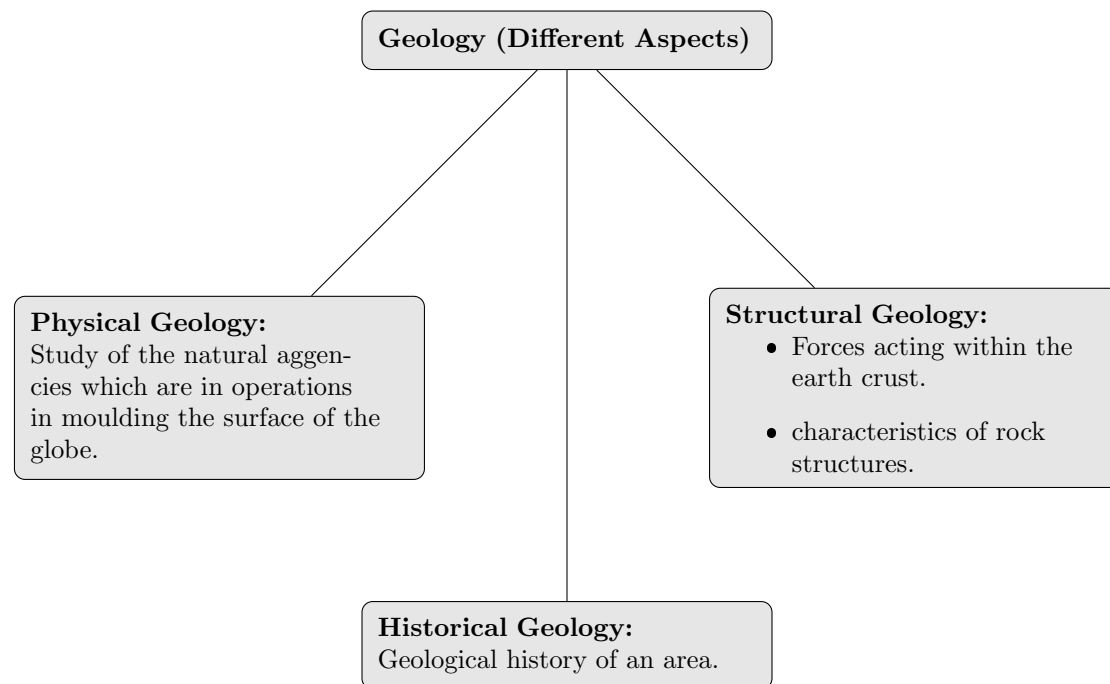
Chemically, any petroleum is an extremely complex mixture of hydrocarbon (hydrogen and carbon) compounds with minor amounts of nitrogen, oxygen, and sulfur as impurities. The weight percentage of petroleum is as follows:

Elements	Amount
Carbon	85%-90%
Hydrogen	10%-15%
Sulfur	0.2%-5%
$N_2$	0.1%-2%
$O_2$	0.6%-2%



## Petroleum Geology

Geology is the science that deals with the history and structure of the earth and its life forms. It is used to predict where oil accumulation might occur. Geology is based on observation and the knowledge derived from many other sources.



### **Petroleum Geologist (activities)**

- Observes the rock and rock formations.
- Reconstructs the geological history of an area
- Determines whether the formations contains petroleum in the reservoirs.

## **2   Lecture 2: Topic**

**Date:** DD/MM/YYYY

Content of the lecture goes here.