



HOPE Foundation's  
**Finolex Academy of Management & Technology,**  
**Ratnagiri**  
**Department of Chemical Engineering**

**Expert Lecture**  
**On**  
**Opportunities and Challenges in Oil and Gas Industries**

The Department of Chemical Engineering organized an Expert Lecture on Alumni Guest Lecture on 'Opportunities and Challenges in Oil and Gas Industries' for SE, TE and BE students on 10<sup>th</sup> April 2021. The expert speaker was **Dr. Santosh Walke, Assistant Professor, Department of Mechanical and Industrial Engineering, National University of Science and Technology, Muscat, Oman.** Dr. Walke talked about the proven oil reserves across the globe and also discussed the process of crude oil extraction in details. He also talked about the career opportunities in Oil and Gas Industries. He also threw light on challenges faced by this sector.

The lecture was arranged by Prof. A. K. Bandsode and coordinated by Prof. S. S. Kadlag and Prof. S. B. Bobde. All faculty members attended the lecture.



**Dr. Santosh Walke delivering his lecture.**

Meet - jsk-vww-egm - Google Chrome  
meet.google.com/jsk-vww-egm?authuser=0

REC Dr Santosh Madhav Walke is presenting

## THE SEVEN STEPS OF OIL AND NATURAL GAS EXTRACTION

STEP 1: PREPARING THE RIG SITE  
STEP 2: DRILLING  
STEP 3: CEMENTING AND TESTING  
STEP 4: WELL COMPLETION  
STEP 5: FRACKING  
STEP 6: PRODUCTION AND FRACKING FLUID RECYCLING

Meeting details

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### Crude oil Requirements in India

India imports 82% of its oil needs and aims to bring that down to 67% by 2022 by replacing it with local exploration, renewable energy and indigenous ethanol fuel.

#### Basins and Categories

##### Sedimentary Basins of India

There are 26 sedimentary basins in India, covering a total area of 3.4 million square kilometer. The area is spread across on land, shallow water up to 400 meter water depth and deep-water.

These basins are divided into three categories based on maturity of hydrocarbon resources as under:

- **Category-I** Basins, which have **reserves** and already producing.
- **Category-II** Basins, which have **contingent resources** pending commercial production
- **Category-III** Basins, which have **prospective resources** awaiting discovery

Based on conventional resource potential, 7 basins are grouped under Category-I covering 30% of total basinal area and holding 85% of the total unrisks conventional hydrocarbon in-place of 41.8 billion ton oil and oil-equivalent gas. These 7 basins are namely Krishna-Godavari (KG), Mumbai Offshore, Assam Shelf, Rajasthan, Cauvery, Assam-Arakan Fold Belt and Cambay.

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