



One Week Training Program
On
“Petroleum Rock-Fluid Characterization and Its Application: Theoretical and Experimental Approach”
Under
Synergistic Training program Utilizing the Scientific & Technological Infrastructure
An initiative of Department of Science & Technology (DST), Govt. Of India
Organized by
Department of Petroleum Engineering, IIT (ISM) Dhanbad, India-826004



One Week Training Program on “Petroleum Rock-Fluid Characterization and Its Application: Theoretical and Experimental Approach” (20th June – 26th June, 2022)

The Department of Science and Technology, Government of India, has given the responsibility to IIT (ISM) Dhanbad to build human resources and its knowledge capacity using open access science and technology infrastructure through the scheme "*Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (STUTI)*". In this regard, the Department of Petroleum Engineering, IIT (ISM) Dhanbad, organized a one-week training program on "*Petroleum Rock-Fluid Characterization and Its Application: Theoretical and Experimental Approach*" from 20th June to 26th June, 2022 at IIT (ISM) Dhanbad.

This training program was coordinated by Prof. Keka Ojha, Department of Petroleum Engineering, IIT (ISM) Dhanbad. This program includes thirty participants (Faculty/Research Scholar) from various universities/colleges in India, with no more than three from the same university/college.

Highlights of the Day-1 (Dated: 20th June, 2022)

The first day of the training program began with a brief introduction to the program's purpose and significance. The introduction energized the participants' interest in science and engineering. The participants were then given a welcome kit that included a bag, a note pad, a power kit (pen, pencil, eraser, sharpener), and a program pamphlet.

Following that, two consecutive lectures were scheduled, with a relatively short tea break in between. The reservoir life cycle and the fluid flow in rocks were the focus of these lectures. The first lecture (from 10:00 AM to 11:15 AM) was based on the reservoir life cycle and was delivered by Prof. Keka Ojha. The second lecture (from 11:30 AM to 12:45 PM) was based on fluid flow in rocks and its applications in reservoir engineering and was delivered by Prof. Chandan Guria.

Next, after the lunch break, a practical demonstration (from 2:00 PM to 5:00 PM) on reservoir engineering was provided by Prof. Keka Ojha and Prof. Archana.

Sagar 01/07/22 *P.V. Kumar* 01/07/22 *Archana* 01/07/22



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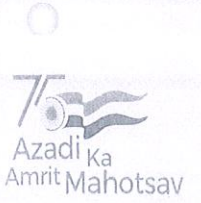
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Highlights of the Day-2 (Dated: 21st June, 2022)

Two lectures were given on the reservoir-rock and reservoir-fluid properties on the second day. The first lecture (from 10:00 AM to 11:15 AM) was based on reservoir-rock properties and was delivered by Prof. Keka Ojha. The second lecture (from 11:30 AM to 12:45 PM) was based on reservoir-fluid properties and was delivered by Prof. Archana.

Next, after the lunch break, a practical session (from 2:00 PM to 5:00 PM) on the LCA laboratory was provided by Prof. Tarun K. Naiya and Prof. Archana.

Highlights of the Day-3 (Dated: 22nd June, 2022)

Similarly, two lectures were conducted on the third day. The first lecture (from 10:00 AM to 11:15 AM) was based on reservoir-fluid properties and was delivered by Prof. Archana. The second lecture (from 11:30 AM to 12:45 PM) was based on rock mechanics and was delivered by Prof. Raj Kkiran.

Following the lunch break, a practical session (from 2:00 PM to 5:00 PM) on the EOR and flow assurance laboratory was provided by Prof. Vikash Mahato.

Highlights of the Day-4 (Dated: 23rd June, 2022)

On the fourth day, two lectures were also delivered. The first lecture (from 10:00 AM to 11:15 AM) was based on formation evaluation and was delivered by Prof. Neetish K. Maurya. The second lecture (from 11:30 AM to 12:45 PM) was based on simulation in the estimation of production and was delivered by Prof. Rajeev Upadhyay.

Next, after the lunch break, a practical session (from 2:00 PM to 5:00 PM) on the product testing laboratory was provided by Prof. Tarun K. Naiya.

Highlights of the Day-5 (Dated: 24th June, 2022)

Similarly, on the fifth day, two lectures were conducted. The first lecture (from 10:00 AM to 11:15 AM) was based on reservoir performance prediction and was delivered by Prof. Keka Ojha. The second lecture (from 11:30 AM to 12:45 PM) was based on the fundamentals of EOR and was delivered by Prof. Ajay Mandal.

Sagar
Raj Kkiran
01/07/22
Keki

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Next, after the lunch break, a practical session (from 2:00 PM to 5:00 PM) on the instrumentation laboratory was provided by Prof. Ajay Mandal and Prof. Tarun K. Naiya.

Highlights of the Day-6 (Dated: 25th June, 2022)

On the sixth day, two lectures were also conducted. The first lecture (from 10:00 AM to 11:15 AM) was based on EOR methods and was delivered by Prof. Ajay Mandal. The second lecture (from 11:30 AM to 12:45 PM) was based on flow assurance and was delivered by Prof. Tarun K. Naiya.

Next, after the lunch break, a practical session (from 2:00 PM to 5:00 PM) on reservoir simulation was provided by Prof. Archana and Prof. Neetish K. Maurya.

Highlights of the Day-7 (Dated: 26th June, 2022)

Similarly, two lectures were given on the seventh day (the last day of the training program). The first lecture (from 10:00 AM to 11:15 AM) was based on flow assurance and was delivered by Prof. Tarun K. Naiya. The second lecture (from 11:30 AM to 12:45 PM) was based on the characterization of crude oil and was delivered by Prof. Vikash Mahato.

Next, after the lunch break, a practical session (from 2:00 PM to 5:00 PM) on the CBM laboratory was provided by Prof. Keka Ojha and Prof. Archana.

Prof. T K Naiya and Prof. Archana of Petroleum Engineering Department were actively involved in organizing the programs throughout the training period.

Following that, the certificate distribution took place, followed by a closing speech. Throughout the training programme, a formal discussion environment was established for the exchange of scientific and technological knowledge.

Prof. Sagar Bal
Coordinator
(DST-STUTI)

Prof. R. K. Gnagwar
Co-Coordinator
(DST-STUTI)

Prof. Keka Ojha
Program Coordinator

