FIPI PDEU ANNUAL REPORT 2020-21



Enlightening the youth to proceed towards sustainable energy development with Principle, integrity and experience.

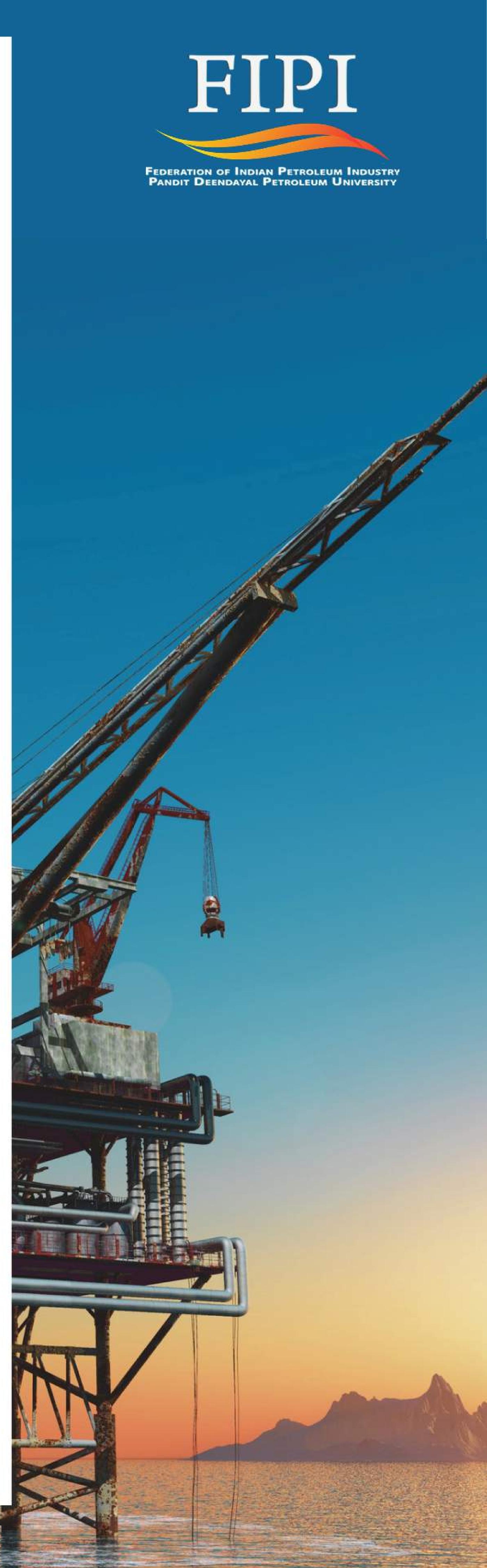
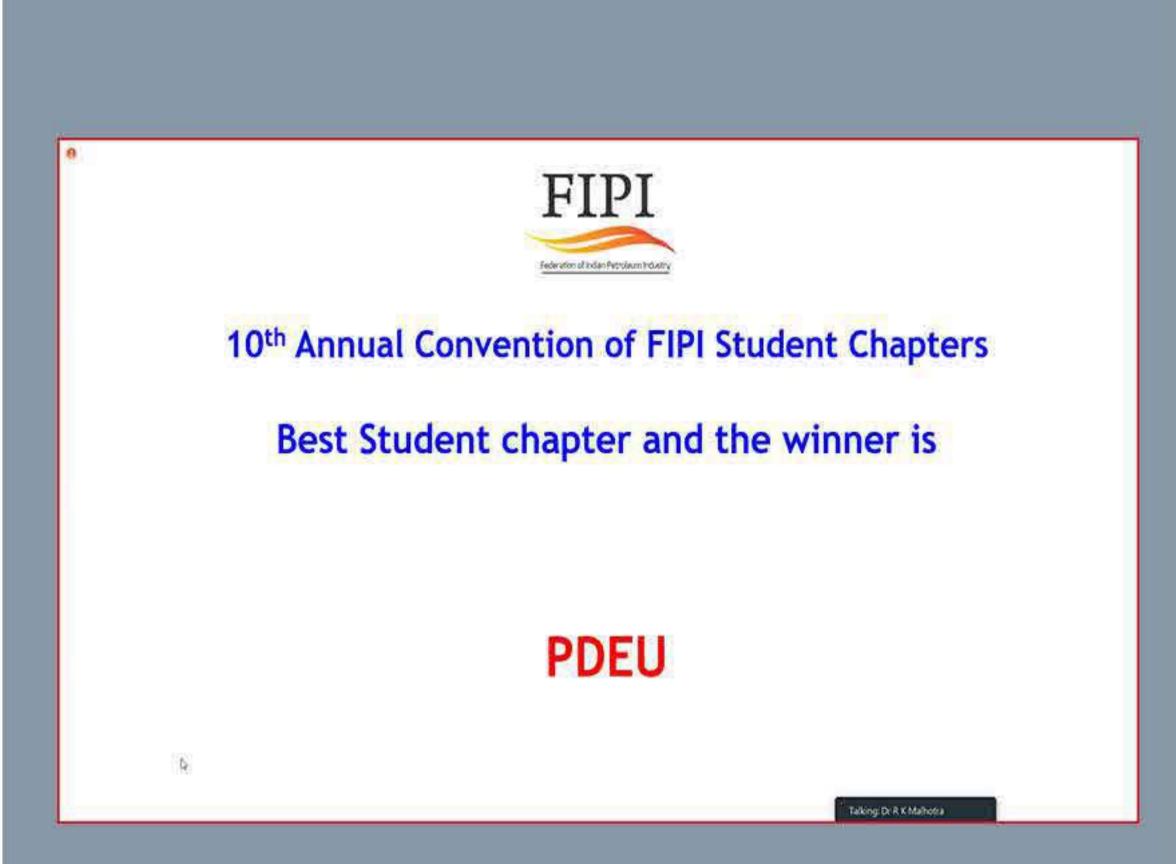
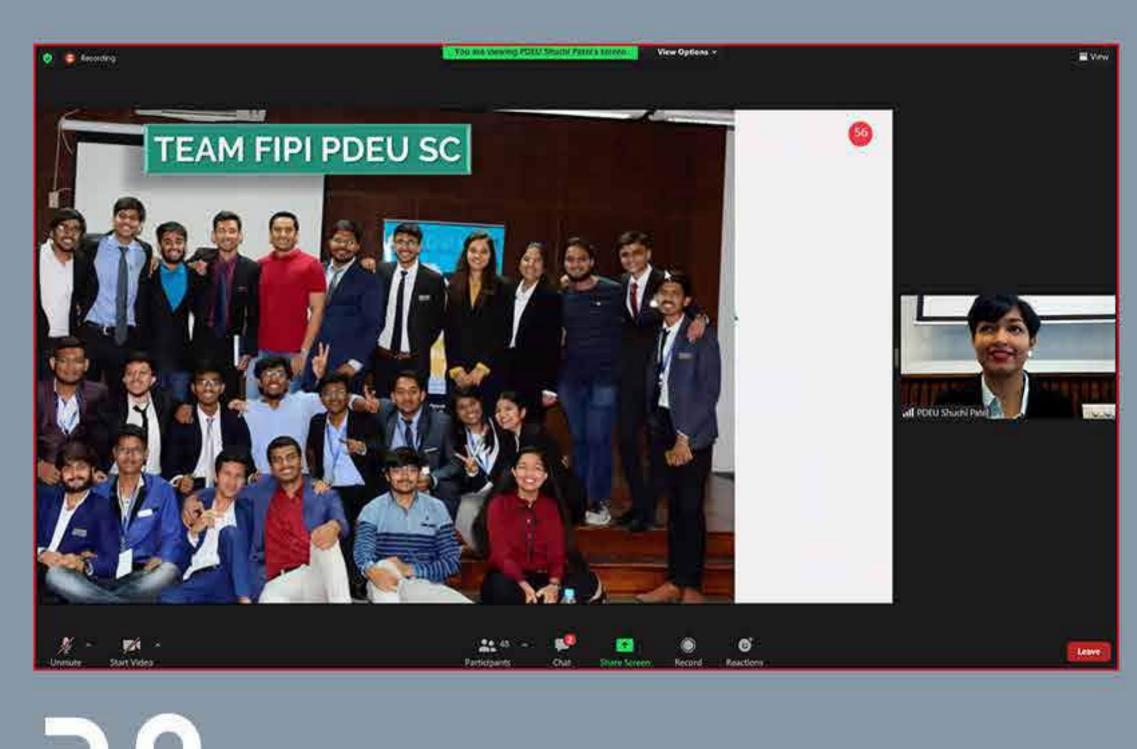


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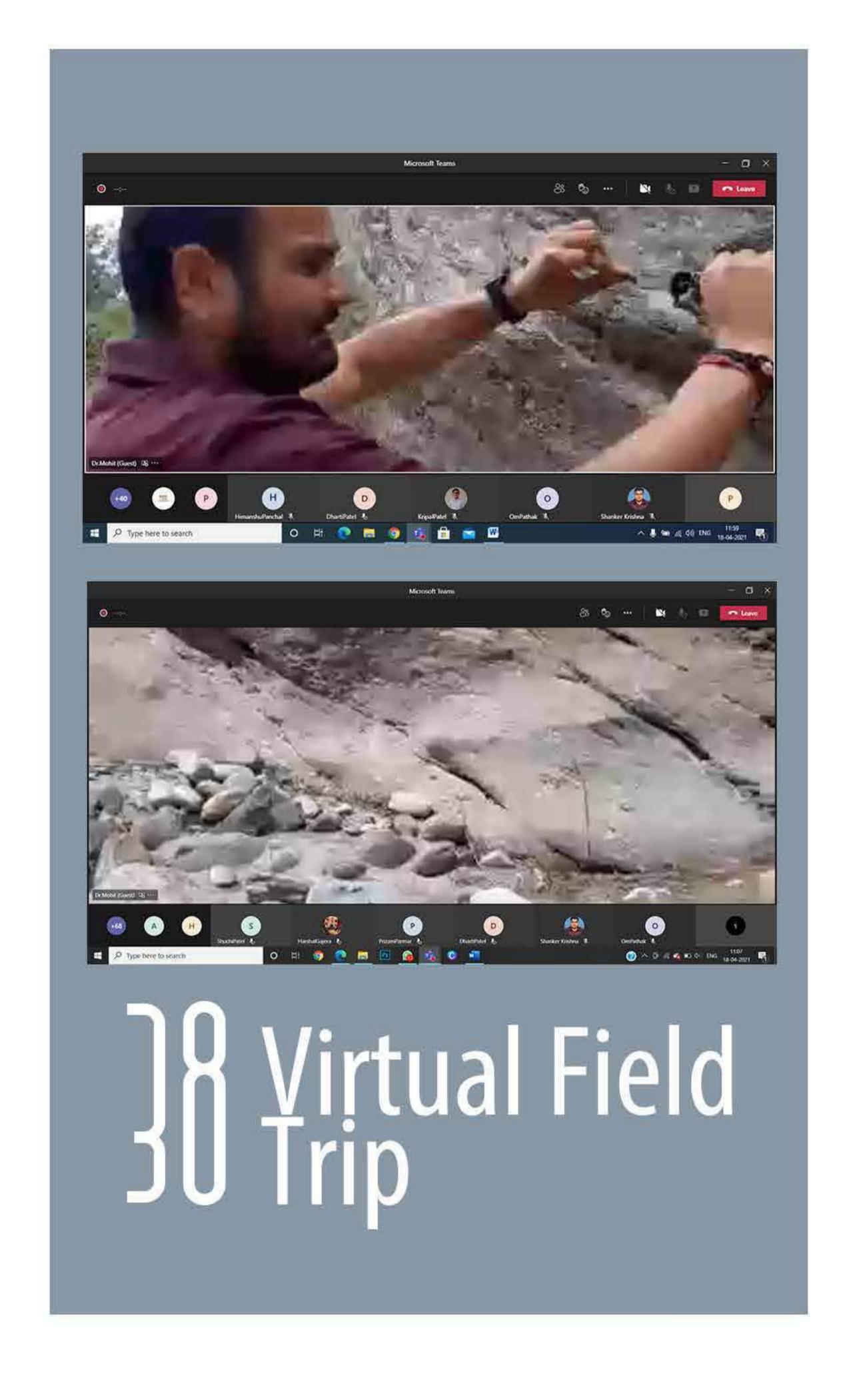
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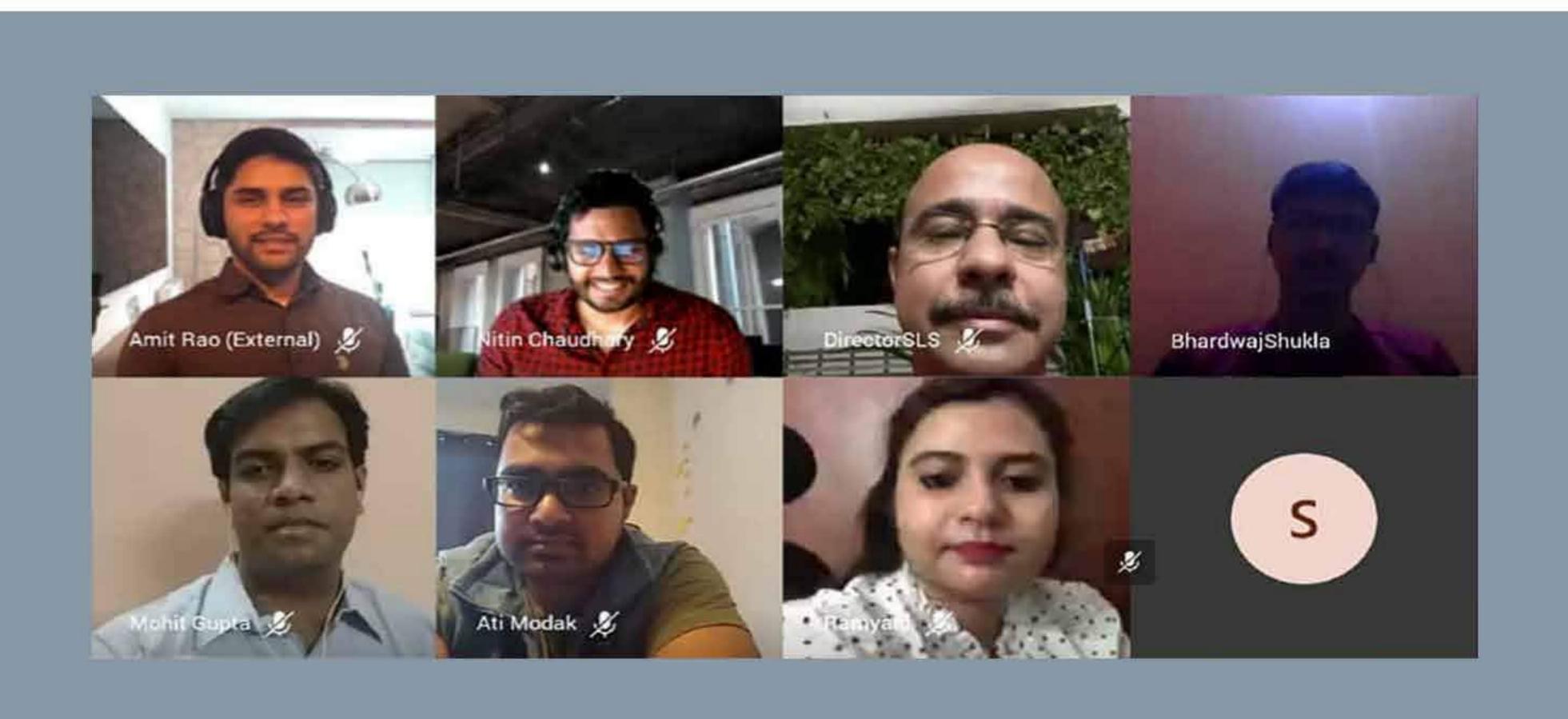
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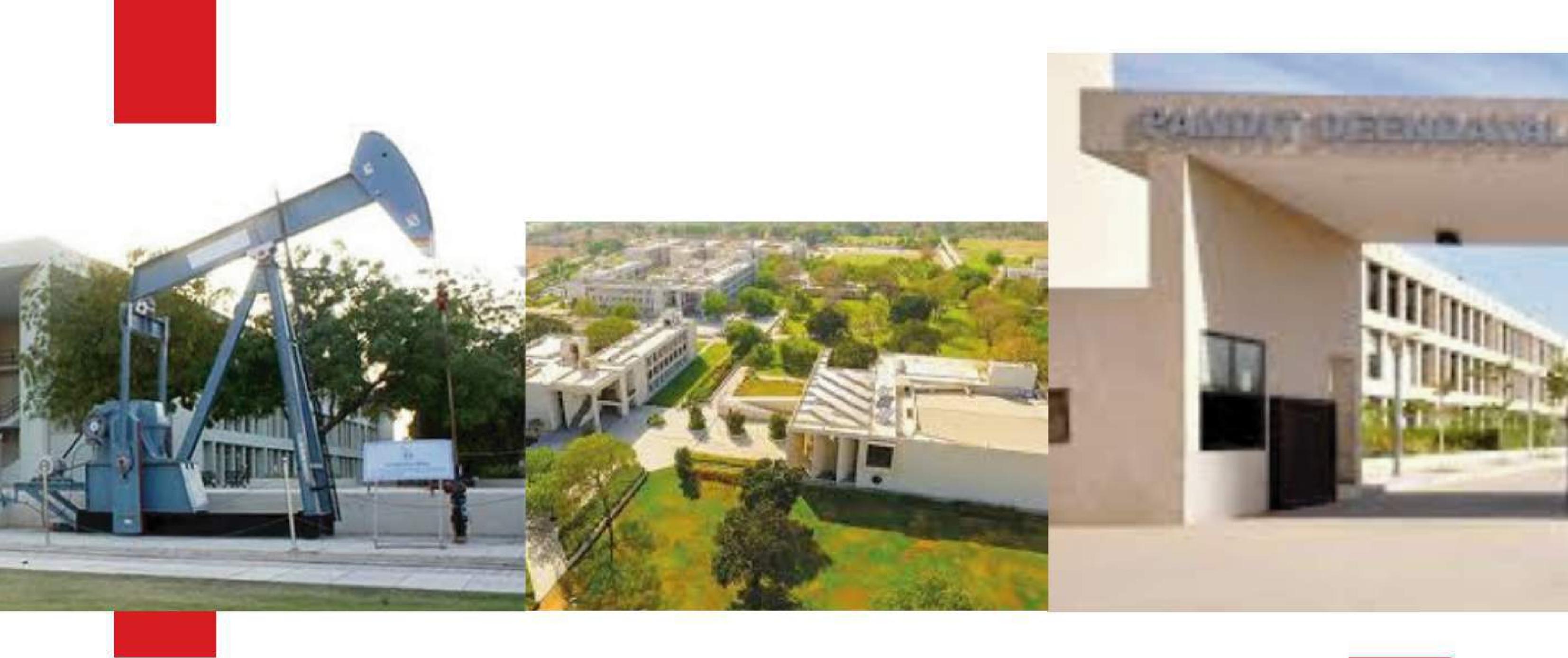
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ABOUT

PANDIT DEENDAYAL ENERGY UNIVERSITY

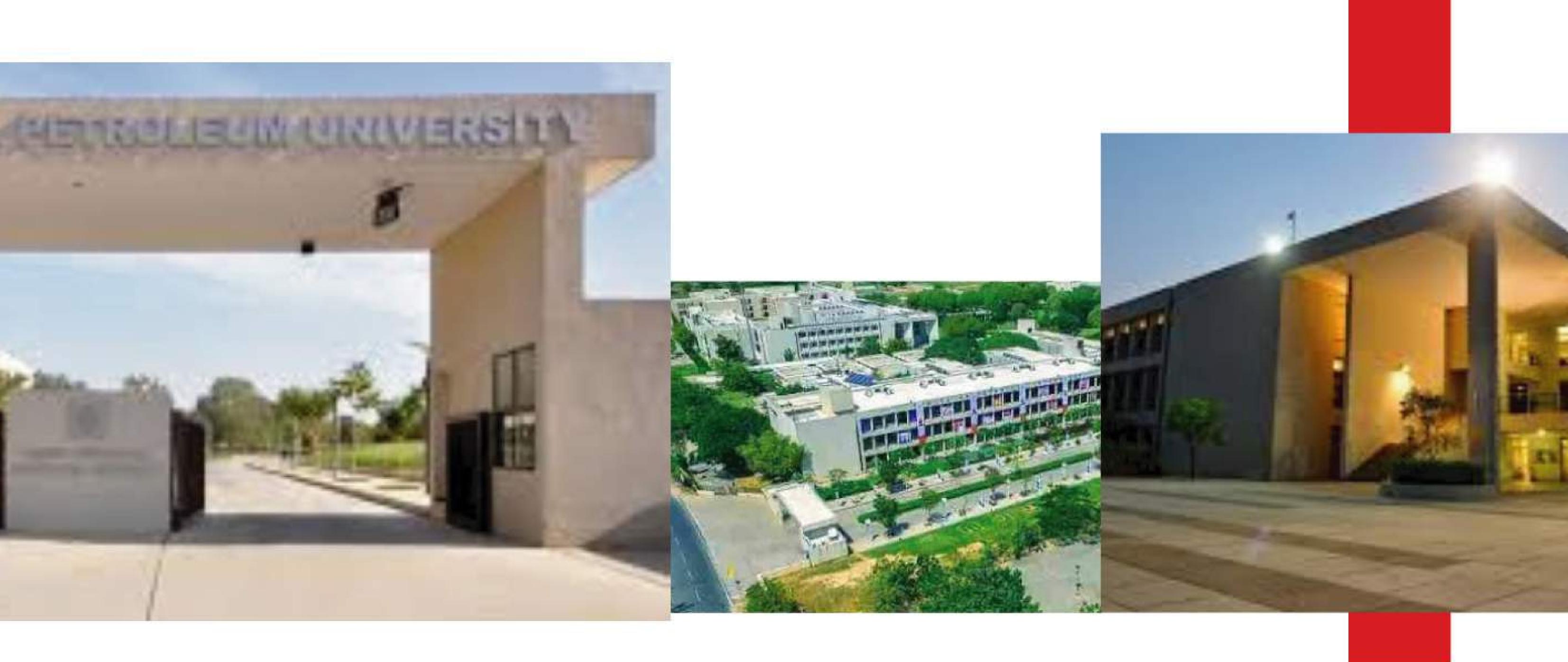
PDEU is 1st place in Gujarat and 55th in India by National Institute Ranking Framework (NIRF), Ministry of Human Resource Development, Government of India. Pandit Deendayal Energy University (PDEU) has been established by GERMI as a Private University through the State Act enacted on 4th April 2007, The University offers programs for the needs of trained human resources in the domains of Science, Technology, Management and Humanities. It intends to learn the opportunities for students and professionals to develop core subject knowledge, which is a complement to leadership training interventions, thereby helping students to make a mark in the global arena. This objective is getting more addressed through several specialized and well-planned undergraduate, postgraduate and doctoral programs as well as intensive research projects.



ABOUT

SCHOOL OF PETROLEUM TECHNOLOGY

School of Petroleum Technology (SPT) started in the year 2007 at the University. The School caters to the academics and industries by creating budding Petroleum Engineers. The School is strategically located in the oil and gas capital of India. Interaction and knowledge sharing from the industry benefit the students a lot. SPT faculties have a rich industrial as well as academic experience. Students and faculties are engaged in practical research and many powers are documented in reputed peer-reviewed journals and conference proceedings. This not only helps in the overall development of students as well as faculty members but also makes the students aware of the industry expectations, which in turn helps in making them not only employable but deployable as well.



About FIPI PDEU Student Chapter

FIPI PDEU SC (erstwhile Petrotech PDPU SC) formed as a result of the amalgamation of Petrotech India and Petrofed into one, namely FIPI India. The chapter is aimed to bridge the gap between academia and industry. At FIPI PDEU SC, we believe hydrocarbon as the fuel towards better & brighter tomorrows' and hence we help building young professionals who are knowledgeable, skilled equipped -capable of working with professionals, cross-border in a global setup. FIPI PDEU SC (e Exposure of our members to Sector and thus keeping them lives.



events like conferences & passionate about the work, there competitive examinations, both further. This is achieved by means at national and international of guest lectures, conferences, levels, keep them live, energetic technical fests and many more and growing. We ensure their which manifest the student to overall development through become an accomplished proper provision and utilisation engineer for the industry. We also of opportunities & resources that put great efforts in providing moulds & transforms them far exposure for our members to the better. We target providing various work ethics of an additional knowledge to organization that in turn develop students that helps them fit in their soft skills which could surely this highly volatile Oil & Gas help them in their professional



"Energy Enthusiasm Excellence

Message from the Director's Desk



Dr Rakesh Kumar Vij

Director SPT, PDEU

School of Petroleum Technology at PDEU is continuously striving to impart knowledge to the young minds and develop capable resources to be offered to the oil and gas industry. . Being an integral of SPT, FIPI PDEU SC has provided an excellent platform to ignite the young minds of students and extract the best out of them. FIPI PDEU SC, being highly dedicated to achieving excellence has organized seminars, fests, convention and several other competitions where students can come up and showcase their talents. It is because of their industrious and sincere efforts that they are trusted and eulogized extensively as an important component of the SPT. I have seen a spark of confidence and self-belief to make things happen. I envisage FIPI PDEU committee to flare knowledge and enthusiasm among ignited petrobrains. The committee worked hard to make this academic year a successful one, wish them best for achieving new heights in the coming year, and make a school proud.

Message from the Faculty Mentor's Desk

Dr Vivek Ramalingam Assistant Prof. SPT, PDEU

FIPI PDEU student chapter is an excellent portal that ensures experiential learning which is inline with the vision and mission of SPT. The chapter act as an exquisite platform for students to sharpen their technical and managerial skills, as well as ones role in sustainable development of the society. The chapter has been enthusiastic in organizing technical events like distinguished lecture series, seminars, software training program and workshops in cutting edge technologies and industrial practices. The chapter has been adaptive to the new normal and extremely active through variety of online events. I feel glad to be a part of the rewarded student governed society in PDEU.



Message from the President's Desk



Mr. Kishan Ramoliya President FIPI PDEU SC

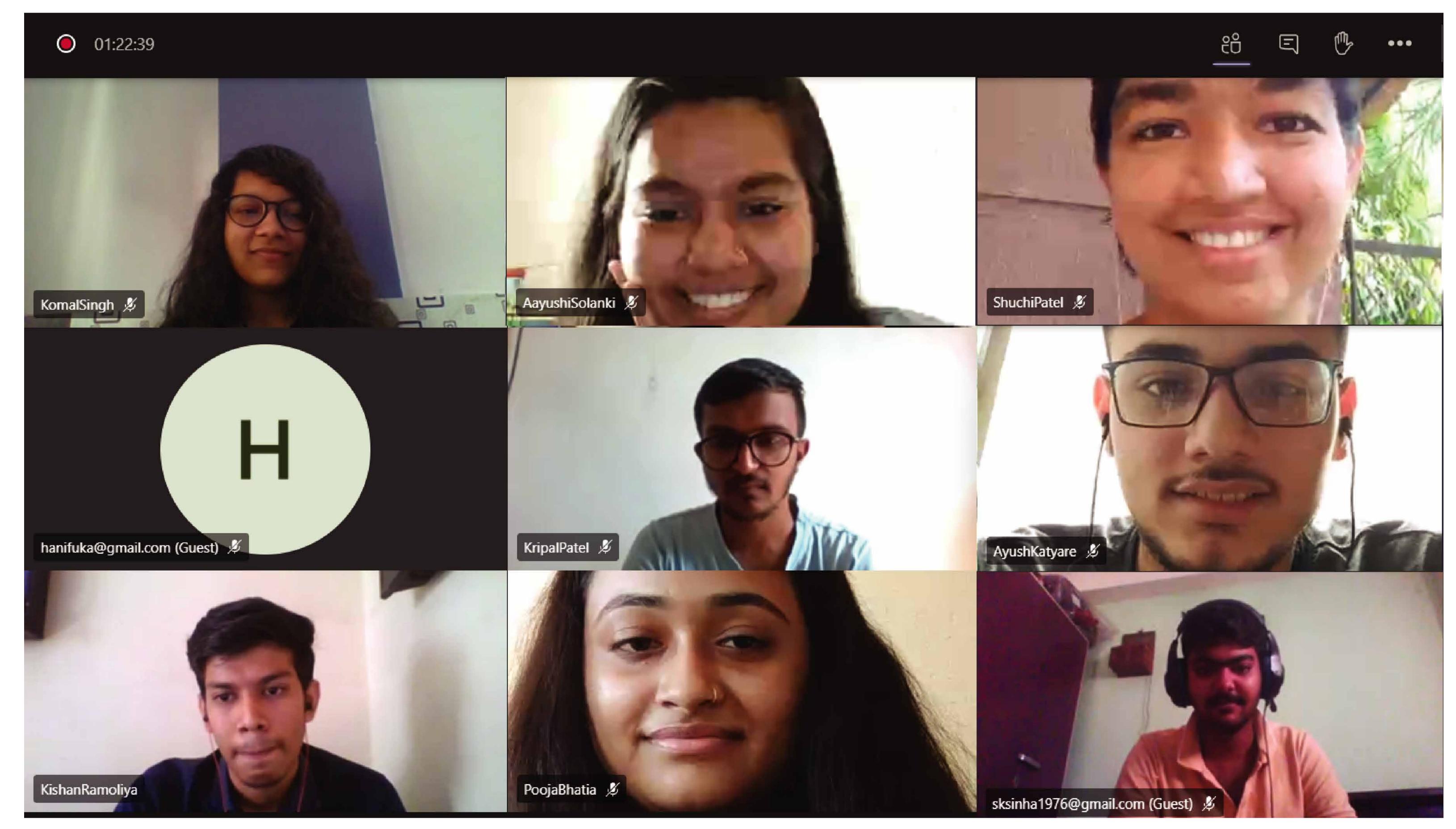
Nowadays, when everyone is talking about revolution in the energy industry for sustainable growth and securing the energy future, it is necessary to link academia with the industry to make students understand about what exactly industry requires from the forthcoming energy soldiers. It is where FIPI PDEU Student chapter is actively working for the last few years. With the theme of "Emanating the young professionals today to amend them into self-resilient energy enthusiast tomorrow", FIPI PDEU Student Chapter has organized an ample number of events in the year of 2020-21, to improve technical knowledge, analytic thinking, communication, and interpersonal skills of participating young petro-minds who are going to be the leaders of tomorrow. We too have worked as per the requirements of the society in the difficult time of COVID-19 through various CSR activities. Having accomplished a phenomenal year of 2020-21, with winning of second consecutive "Best Student Chapter Award" across the nation in 2021, it is better to have well-documented work of the chapter activities together with some add-on knowledge & techno-informative content before switching over to its next endeavours. I would like to present the Annual Report of FIPI PDEU SC for the year 2020-21 to enlighten you about journey of the chapter throughout the year.

As we end this academic year, I am confident enough on the upcoming leaders of committee that they are well aware of mission and vision of the chapter that FIPI PDEU possesses from the beginning. They will certainly be putting all efforts to achieve newer heights of this chapter. I assure you on behalf of our team of FIPI PDEU that the committee is bound to bridge the gap between industry and academia to explore new horizons for students in the Oil & Gas industry.

ASPIRE 2021 09

INTERACTIVE SESSIONS

Introductory Session



he session was conducted with the BTech students of petroelum branch was delivered by the committee members of FIPI PDEU Student Chapter. The session was conducted with the branch of Petroleum Engineering Bachelor Students. The main motive of this introductory session was to create awareness on the function of FIPI Student Chapter and their benefits. We motivated the students to join FIPI PDEU STUDENT CHAPTER so that they can get a great exposure which can help them in

future. The entire session was very interactive and interesting as the students took active participation in giving their introduction. We urged them to meet and greet everyone and make a cordial relationship with all. We also asked them to be enthusiastic and participative in every event to come and try to be extraordinary in every case to stand out and shine your way out. We also wished them best of luck for the future on this journey of education and success.

ABCD

Any Body Can Discuss

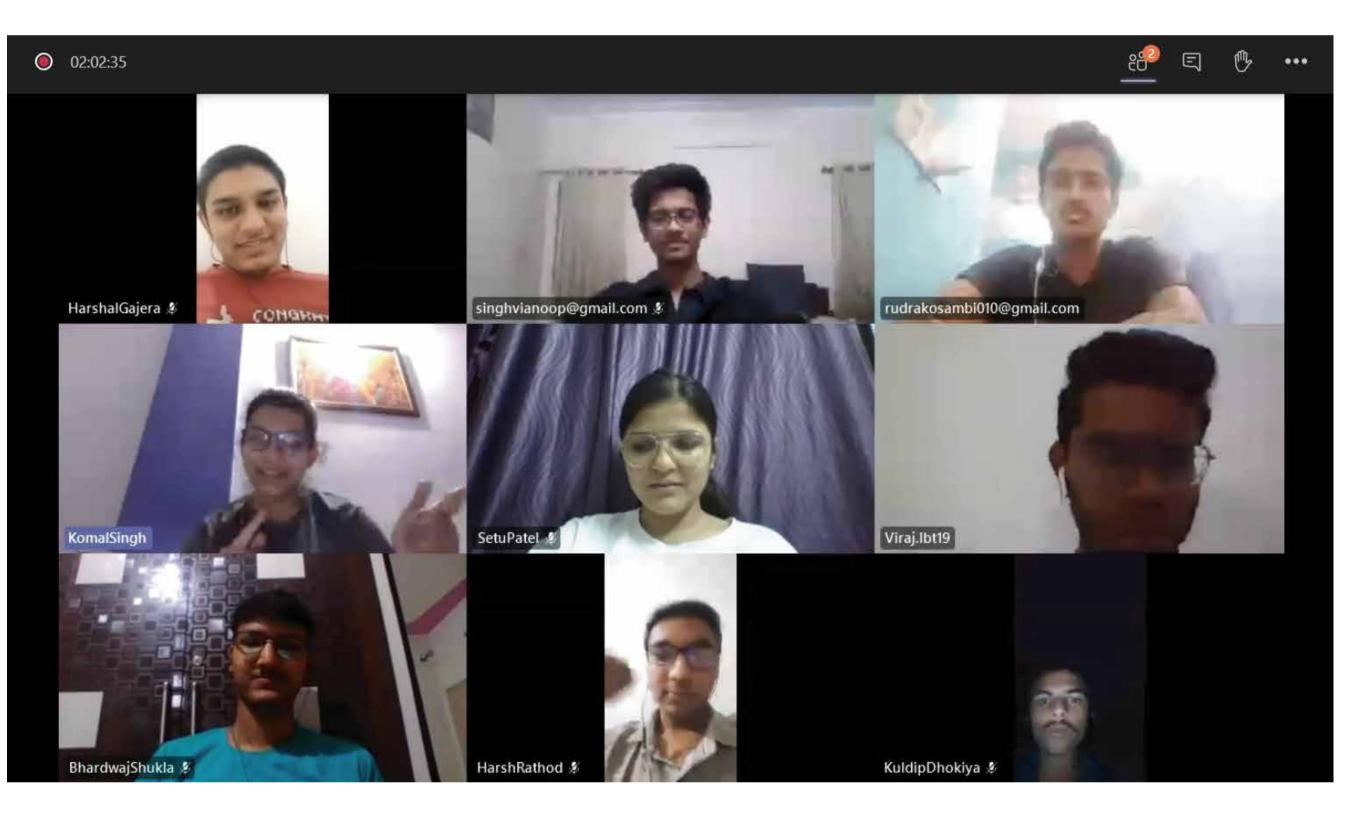
The stylemark event Chapter named of Any Body Discuss was formulated to give perception into Oil and

Industry. Gas PDEU FIPI STUDENT CHAPTER discussed on the topic of Major Price Fluctuations in Oil and Gas

Industry where we told the students to take several minutes to write down everything they know about the topic of the discussion. This would prime them for the discussion.

student an have to opportunity to speak. The main motive of this session was to enhance debate discussion construct to reasoned arguments that address the material and

consider the arguments of connections the other side. At the end of Industry people and talked the discussion, we allowed about how students to write down any Internship in any company. conclusions questions they had. We also juniors that in two ways we them asked discussion affected their the Internship form and views on a topic or their understanding of a concept. connections. The seniors



Intern talk

With the collaboration of all the Student Chapters of SPT and support of our seniors, An 'Intern Talk' was We motivated every organized for guiding and mentoring the students. The main purpose of this event was to guide the juniors towards the Internship in this pandemic and how can they get the Internships. The seniors advised us to keep

the to or lingering They mentioned to the how the can get the internship. Fill is through other helped the students by providing important information about how to choose the right Internship and why Internships are very important? They also mentored the students on how they should choose their Internships as they play a very crucial role in preparing a CV and this reflects in the also interviews. The session was very informative and interesting. Some notable interns who talked during the session included:-Mr. Anish Singhi (IRS lab work), Mr. Yashpalsinh field Dayma (IRS development), Mr. Smit Prajapti (WSS), Ms. Jhanvi Desai (RIL), Mr. Suraj Chauhan (WSS), Mr.

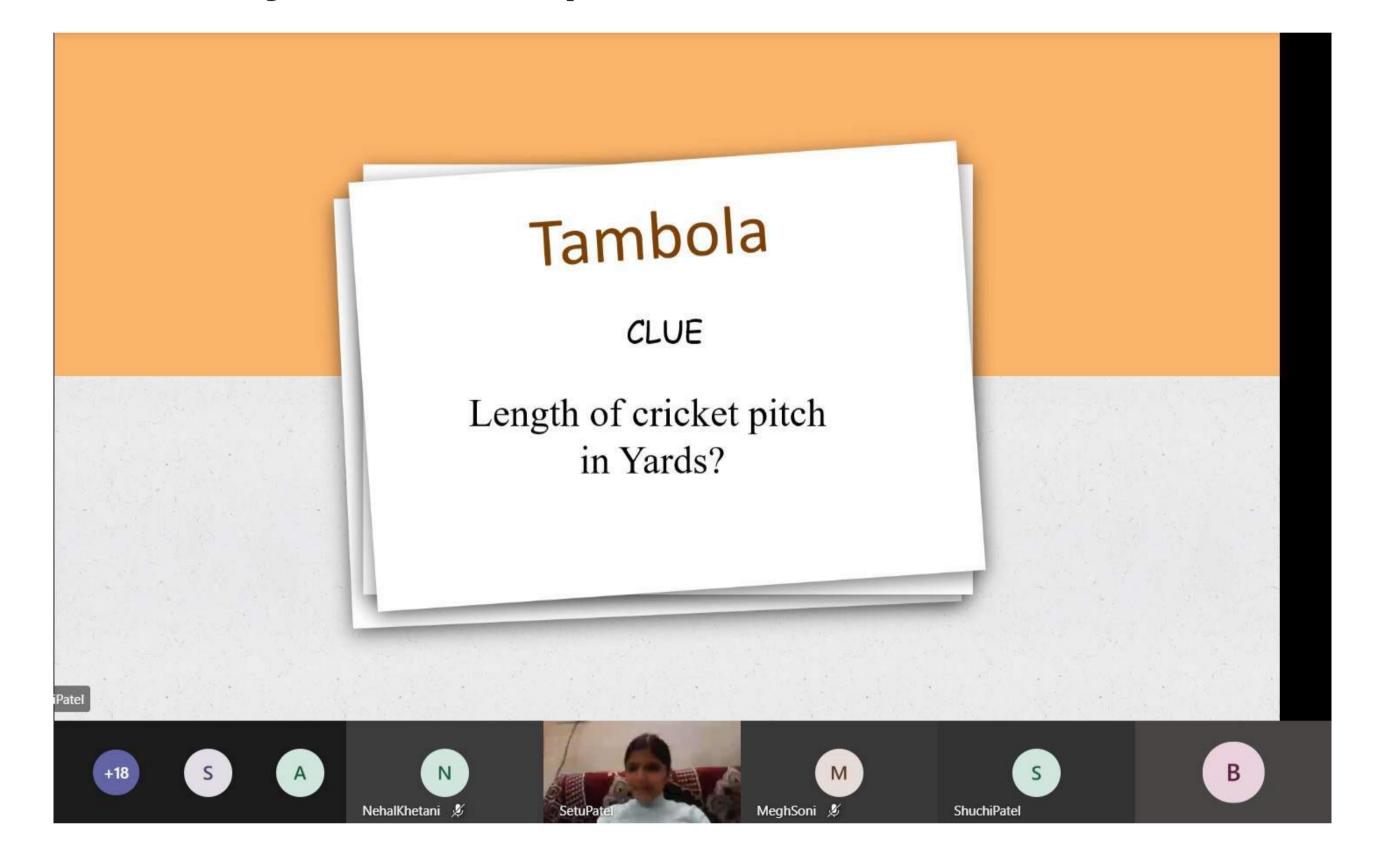
Kaushalkumar Dudhat (ONGC Asset Subsurface), Mr. Brijesh Gondaliya (RIL E&P), Mr. Parag Bhoraniya (ESSAR), MR. Jigar Galsar(IOCL), Ms. Dharti (Caliche), Patel Mr. Kripalkumar Pate (Sabarmati Gas + GERMI), Mr. Hardik Parmar (GAIL & Mr. Jenishgiri ONGC), Goswami (GAIL ONGC). The sharing of life experiences are valuable to guide the students right from finding the area of interest to the planning of internships and finally getting a job in a reputed company. Really it helpful to very was students.

Tambola

Online Board Game Competition

The first year students will miss out on a lot of if they won't know how College goes. It is essential for freshers to know the seniors

and their behaviour and to the students so that the check-out the fun-filled side participants can get the of genuine seniors where Tambola they do all the hard work and participant had their own preparation to make juniors unique Tambola protective feel comfortable. So, to welcome 1-90 numbers. We displayed the new students in the them in sequence through friendly atmosphere of the Power Point Presentation



college and to encourage their creative impulses, FIPI PDEU SC organized a fun, interactive named event 'Tambola'. Basically, Tambola is played with numbers (1-90) being called out one at a time and players striking out those numbers on their tickets. But we had added twist to the game that instead of giving them direct number we gave them clues to solve the numbers.

Prior to the game we had provided drive link to

tickets. Every and There were 90 clues based on

> and they scrached numbers in the tickets their and full based on housie, Row 1-2, Row 2-3, Row 1-3 and 1st seven completion they

could withdraw tickets to cash prizes. The students enjoyed a lot during the entire game.



Gas Well De-liquification Techniques

By Mr. Alphonse Lalnuntluanga (Assistant executive engineer, ONGC)

Foremost workshop was conducted for two days on "Gas Well De-liquification Techniques: Solution to Gas Well Liquid Loading Problems" by Mr Alphonse Lalnuntluanga, assistant executive engineer, ONGC. The session started with a brief introduction about the basic production system and analysis where students acquired knowledge on the methods used in industry to create goods and services from various resources such as labour, capital (for

machinery and equipment, materials, etc.), and space (land, buildings, etc.) to effect a change. He introduced the participants with the ways to identify and

predict liquid loading phenomenon. He covered a plethora of topics like gas well de-liquification techniques, nodal analysis, echometer software, Artificial lift mode of De-liquification, and how to install, monitor &

troubleshooting. He taught us how Liquid loading can reduce production and shorten the lifecycle of a well costing a company millions in revenue. He explained all these topics in a zestful and exuberant manner while answering the doubts of the inquisitive minds. Two online quizzes were also conducted on both the days based on the topics that were discussed. Students found the workshop to be very enlightening and worthwhile.

Foremost workshop was conducted for two days on "Gas Well De-liquification Techniques: Solution to Gas Well Liquid Loading Problems" by Mr Alphonse Lalnuntluanga, assistant executive engineer, Data and its various aspects in Industry

By Mr. Dhaval Patel (Team lead, wells RAR & CSR, Shell)

Data science has proven to be a very

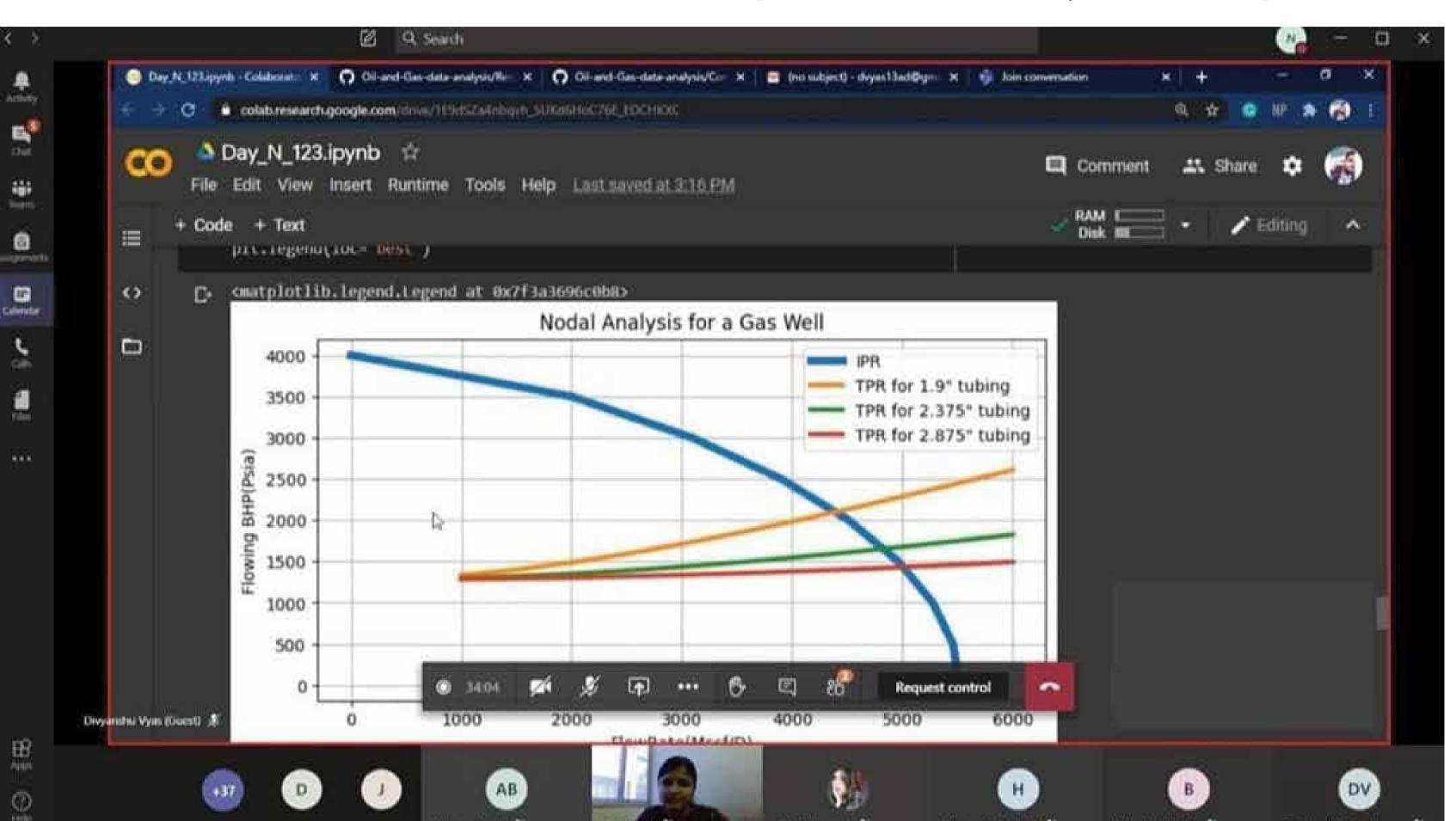
important technology in the upstream oil and gas industry. An overwhelming majority of petroleum engineering professionals and geoscientists are currently interested in

learning technologies associated with data science, including artificial intelligence and machine learning. With the intension of this, a webinar was hosted on "Data and its various aspects in Petroleum Industry" by Mr. Dhaval

WORKSHOPS & WEBINARS

Royal Dutch Shell). He talked about What is gas industry has grown immensely. So with

data and information systems and what are the procedures which should be done with data so it can be significantly useful in oil & gas



talked about data visualization from the basic Industry" by Mr. Divyanshu Vyas, Founder of to advance level, data analysis, dashboard Petroleum from scratch and Reservoir creation and hands on the data input, simulation intern at Rezlytix. He talked about processing and visualization development. importance of Reservoir Simulation and The webinar was followed by Exercise wherein Python from scratch, various aspects of he discussed about various questions and computer programming, Visualization, NumPy techniques to solve them quickly with various in which he talked about how can we visualize tools of Excel. With the help of Excel, he solved many problems of students. The workshop was very interesting and very useful in oil and gas industry.

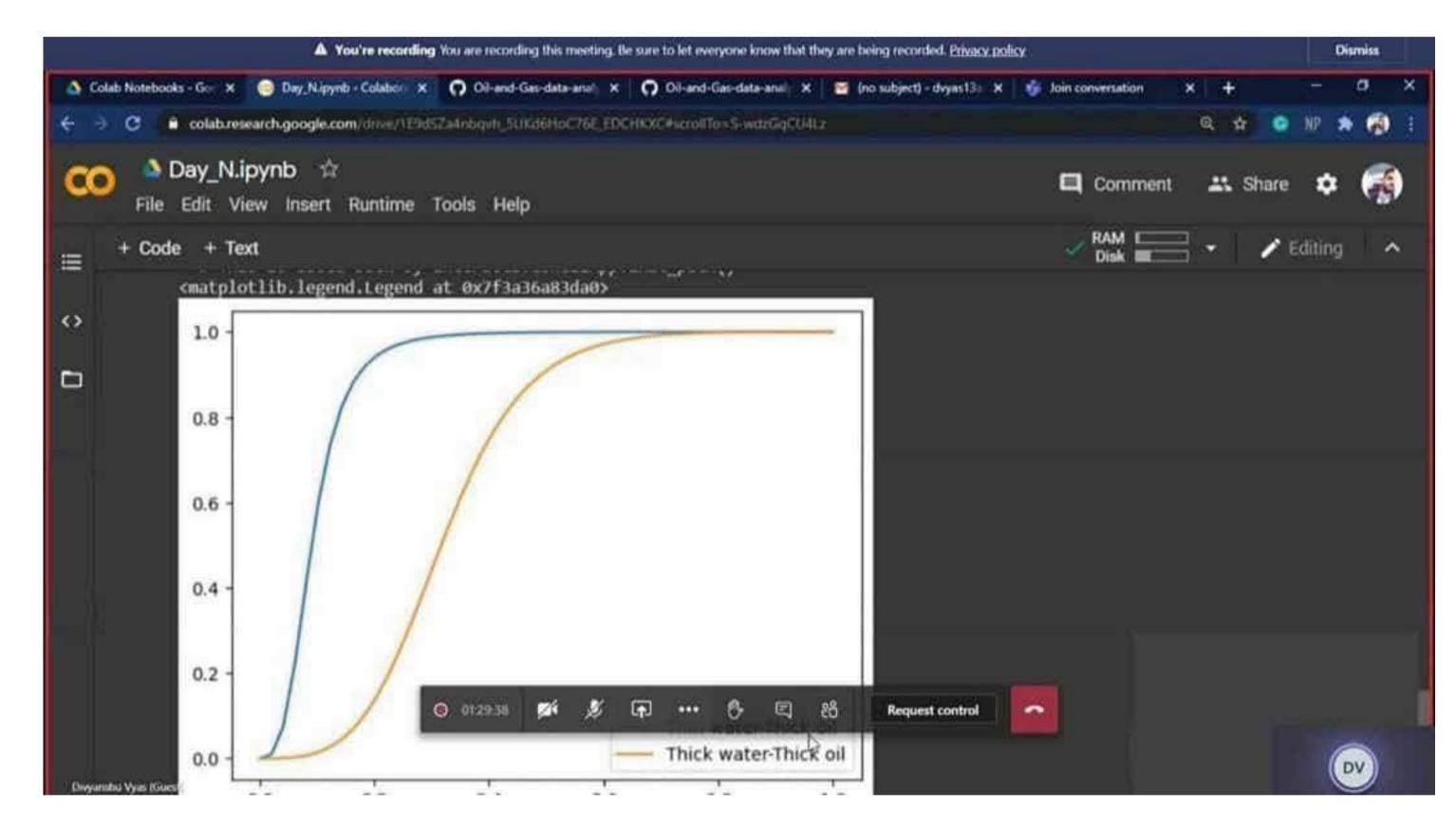
Reservoir Simulation using Python

By Mr. Divyanshu Vyas (Reservoir Simulation Intern of Rezlytix)

The use of machine learning, predictive analytics, and other artificial

Patel who is Team Lead, Wells RAR and CRS at intelligence-based technologies in the oil and

intension this, 3-day workshop was organized on "Reservoir Simulation using Python and Machine learning Petroleum



the data using Python and how can we produce different graphs related to oil and gas domain using Python and its functions. With the help of Workshop, Stidents understood about the work flow rather than worrying about calculation. It was a very unique and informative workshop.

Data Visualization Masterclass

By Mr. Dhaval Patel (Team Lead, wells RAR & CSR, Shell)

We were enraptured about yet another 2 day workshop on "Data visualisation Masterclass" by Mr. Dhaval Patel, Team Lead, Wells RAR and CSR, Royal Dutch Shell. Throughout the workshop he covered data visualization from basics to advance level, data analysis, dashboard creation and hands on with data input, processing and visualization development. He explained about the goal of Data Visualization which is to communicate information clearly and efficiently to users through graphical means

and how In the world of Big Data, data visualization tools and technologies are essential to analyze massive amounts of information and make data-driven decisions.

The workshop was directed with real efficiency and yet, in the space of that relatively short time, he managed to achieve a warm and genuine relationship with each student, making them feel relaxed about

airing problems and helped them to arrive at possible solutions.

Managed Pressure Drilling : Modelling

By Dr. Naveen Velmurugan (MINES Paris Tech, France)

FIPI PDPU SC hosted a webinar on "Introduction to Managed Pressure Drilling: Modelling" by Dr. Naveen Velmurugan(Mathematics and Control, MINES Paris Tech, France). Managed Pressure Drilling (MPD) is a new technology to mitigate drilling limitation by controlling BHCP and better control of pressure variation while drilling. The plenary began with an introduction about the

basics of Drilling. He expounded the participants about liquid "How use drilling mud to maintain a particular the pressure at boredom the of



wellbore?" He covered a plethora of topics like Managed pressure drilling operation and how to model such systems, Industrial problems in which he briefly explained the tighter pressure control, kick detection and handling, and

WORKSHOPS & WEBINARS

reservoir characterization, Derivation of Kaasa model, Comparison between lumped and high-level programming language that's the distributed dynamics for industrial scenarios, foremost well known programming language Introduction to distributed models for for data science and specifically for data wellbore and reservoir. He explained all these topics in a dynamic and exuberant manner foremost valuable stage for profoundly while answering the doubts of the inquisitive minds. The enthusiasm shown by students kept the session thought-provoking.

The workshop was appreciated by the students and they also found it to be very interesting and informative.

Use of Python in Oil & Gas Industry

By Mr. Jaiyesh Chahar (Reservoir Engineer, Dicelytics)

OneOrgan Discript x X KNN classifier for tim X Application of Pythin X S georgie collete: Greek X Anacorda (The Wegg Application of Python and ML in Oil and Gas industry Day-1 care consequent 23 minutes sign (indimensity) Welcome Everyone! I arm very excelled to take you through the macching governry of application of pythem and Data Analystics in OAG tribustry. My Aim is to take you to a better, confident and super confortable place as fix as Pythou for Oil and Gas is concurred: We will start with basics of Python and then move on to one cases in Industry Python from Scratch THE INTE (F To NAME for NUMBERLING AND THE RESIDENCE SELLING COMMENTS FREATTING WITH BOLDS CONCERNO princ('Nello Seye'). etterape Requests in Salga change Line. BREEKS CARLES ARTERITY Ballo days Bwlks -FORM Single values Data Types 1. Inhiger mg. -7 2. Finals eg + 7.0: 3. Booksans: Etither Trus or Fainer fittings, set of characters that can asso contain spaces and matthers, edulates by using "___" og - "6" O 4 ING 22-01-2021 Type here to search D Dimakkagan R ^ # 100 @ q0 15 ENG 18:09 □ Type here to search

Python is a general purpose and analytics. Python has demonstrated to be the modern Petroleum Information Analytics tools.By looking importance of python in oil and gas industry, FIPI PDEU SC organized a very Illuminating 3 day workshop on "Use of Python and Machine Learning in Oil and Gas Industry" by Mr Jayesh Chahar, Reservoir Engineer (data analyst) at Dicelytics.

The session started with a brief introduction about the basics of Python in the oil and gas sector. He introduced the participants with the concepts of computer programming and machine learning required for implementing the algorithms used. He covered a plethora of topics like basic operators, Loops: For, while, nested for, nested while, python libraries like Numpy and much more. He explained all these topics very ebulliently while answering the doubts of the

> inquisitive minds. He moreover examined a few solutions of real life problems and featured understudies to his project Indeed, work. was bewitching session enjoyed by everyone and the enthusiasm them kept shown session thought-provoking.

Financial Planning for Young Professionals

By Ms. Nidhi Kothari (Financial Coach, Hermoneytalks)



Finance is a system that involves the exchange of funds between the borrowers and the lenders and investors. It operates at various levels from firms to global to national levels. FIPI PDEU Student Chapter had organised a workshop on "Financial Literacy for Students" by Ms. Nidhi Kothari. Students from different Universities attended the workshop to gain knowledge about the Finance. The main motive of this workshop was to explain the students about the attempt

to reduce the cost of finance and ensuring sufficient availability of funds and also, dealing with the planning, organizing, and controlling of financial activities like the procurement and utilization of funds. The Workshop also provided the information regarding investment of money in mutual funds, stock market and PPF. Participants enthusiastically participated in the workshop and also asked their queries and the queries were solved by Ms. Nidhi Kothari.



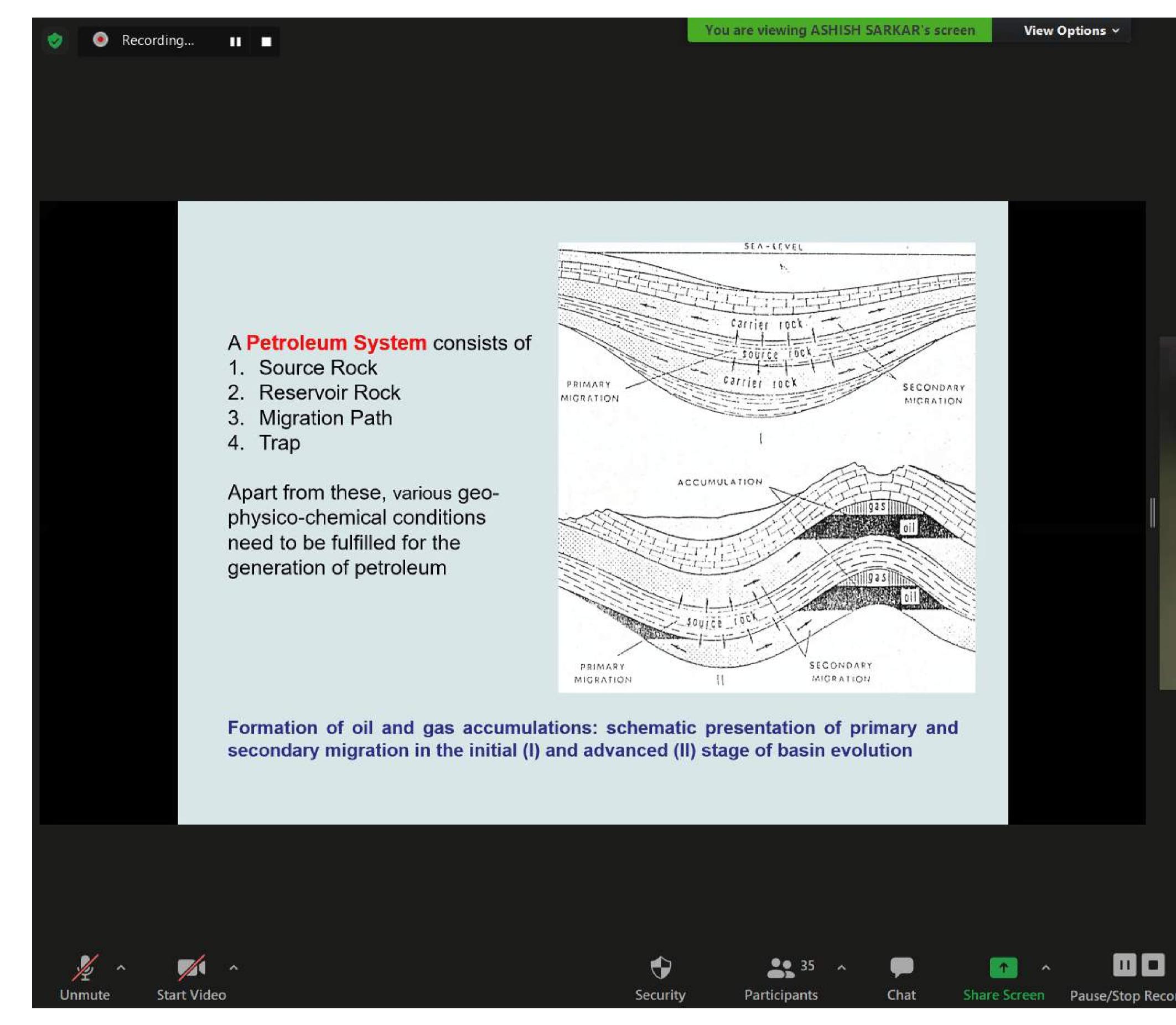


Lecture Series on Importance Of Geology In Petroleum Engineering

by Dr. Ashish Sarkar (M.Sc. & B.Sc. from IIT kharagpur)

a 3 days lecture series on Importance of Geology in Petroleum Engineering by Dr. Ashish Sarkar, M.Sc. (Applied Physics) and Ph.D. (both from IIT, Kharagpur).

He started his with brief the lecture Introduction to Geology and made the session alive. He emphasized the Geological Survey of India (1851), First (1866), First well in Digboi engineering petroleum department opened in ISM the Role of Geology in manner. engineering, petroleum Geological Time Scale, Clastic



Dhanbad (1957). He covered scale, then Shepherd's classification system, Dot's plethora of topics, spoke about classification. He explained all these topics in a zestful the Role of Geology in manner.

Geological Time Scale, Clastic The next day of the lecture series started with Sedimentology, Grade Scales the Introduction of Petroleum System. He explained in which he explained about about the Continental Shelf Platform, Principles of the Udden-Wentworth Grade Stratigraphic, Branches of Geology, the Sedimentary

Ecoscribe 2.0

Online Blogging Competition



Rocks, anticline and syncline, types of sand, Factors controling Porosity. He also shared his field experience with us. The lecture was appreciated by the students and they also found it very informative.

As a part of Coalesce 3.0, an exemplary event was organized by FIPI PDEU SC in collaboration with Envirofreaks: The environmental club of PDEU named 'ECOSCRIBE 2.0' - an online blog writing competition with the belief of spreading environmental awareness, where the participants penned down their thoughts and ideas on the theme "Impact of net zero carbon challenge". We brought this competition to help the participants improve their research skills and scope on Environmental safety and thereby attain finesse. As transition and we environmentally-conscious society, many consumers have begun to the scrutinize their daily habits and make changes. Ecoscribe aimed to raise awareness among ordinary people and encourage more ecologically-responsible behavior.

All the entries were posted on the social media handles of both the clubs (I.e Instagram, Facebook and LinkedIn). Entries were evaluated based on the quality and creativity of the content along with likes and shares. The winners were awarded with prize money worth Rs 1500 and a shoutout on the social media handles of both the clubs. It was indeed a very splendid event. The true efforts and enthusiasm shown by the participants made 'Ecoscribe' a great success.



Paheli

Code-decoding Competition

The Organization of the Petroleum Exporting Countries (OPEC) is an intergovernmental organization of 13 countries Algeria, Angola, namely Congo, Equatorial Guinea, Gabon, Iran, Iraq, Kuwait, Libya, Nigeria, Saudi Arabia United Arab Emirates and Venezuela founded in 1960. Baghdada OPEC objective is to co-ordinate and unify petroleum policies among examination. It is essential a part of COALESCE 3.0. member fair secure prices petroleum for supply of producers and petroleum to consuming nations.

the keep enthusiasm of COALESCE PDEU FIPI 3.0, organised an amazing event that is a Coding Decoding where Competition the participants were divided in team of 2 and the vast information were provided

about the different countries (1 country per team) to read in the given interval. It consisted of two rounds each of them with a figure out words. twisted question from decoding to rapid fire quiz the based round on topic. decoded students found the event to Competition fun be and very informative, and was praised by everyone.

Decoding is an Coding aptitude and stable students to figure out most examined with technical

words and the

foundation of instructions like fluency, vocabulary, reading comprehension, phonics, and phonemic to words. It helps the students to give

knowledge of letter-sound relationships, and successfully recognize familiar words quickly and

Petrospect

The Technical Quiz

Quizzes are not only fun for students, they are also a sneaky form of learning. FIPI PDEU organised important part of logical interesting and informative reasoning section in all event named PETROSPECT- A related Technical Quiz Competition as countries, to to reading, it allows Wherein the participants were

> questions related to Oil and Gas Industry. The event was carried out in 2 rounds, round 1 at 11 AM and the selected participants

reading got the chance to take part in round 2.

> students The participated enthusiastically and showcased their brilliance

rapidly answering the by questions were tricky, the students tried their best with confidence. They found this competition very informative and knowledge enriching.

Taking online quizzes is

unique and fun way and connect them to your brand learning or material. Another benefit of plus online quizzes is getting immediate

results from your participants. Not only does the creator get the results, the participant itself is also possible to get his/her results. This makes it for the creator easy to identify the gaps in knowledge. The participants are able to view on what kind of section they have to improve themselves.

Aptacon Aptitude Test

FIPI PDEU SC organized Some of the a commendable competition as a part of COALESCE 3.0 that is 'Aptacon' - An aptitude test along with a seminar on "set and ushered them for their your sights on doing masters future in respective fields. abroad" in association with The Renaissance.

becoming a huge success. It was a preeminent Engage your audience in a occasion for young minds to



interrelate with the guest speaker, Mr Jayesh Patel, in a vast assortment of career areas to gain a broader insight on doing masters in the foreign countries into their chosen area of study along with valuable analytical capabilities. They also acquired the knowledge of what it takes to be successful in the world of work in general. It was indeed an amazing session, everything was explained in a dynamic manner and candidates were

introduced with an understanding the international context. motivated the new minds aptitude test was conducted after the seminar with the purpose to analyze an individual's strengths and weaknesses, along with their ability to perform in areas such as problem-solving, logical reasoning, verbal comprehension and the knack for decision-making. Its uses also involved gaining predictive insights into performance, job future specific abilities and areas in which an individual is likely to excel. It was a golden opportunity for the students to measure their abilities and their level of expertise, which valuable way monitor their success.

The whole event was appreciated by the students and they found it to be very fruitful and worthwhile.

INEACHING

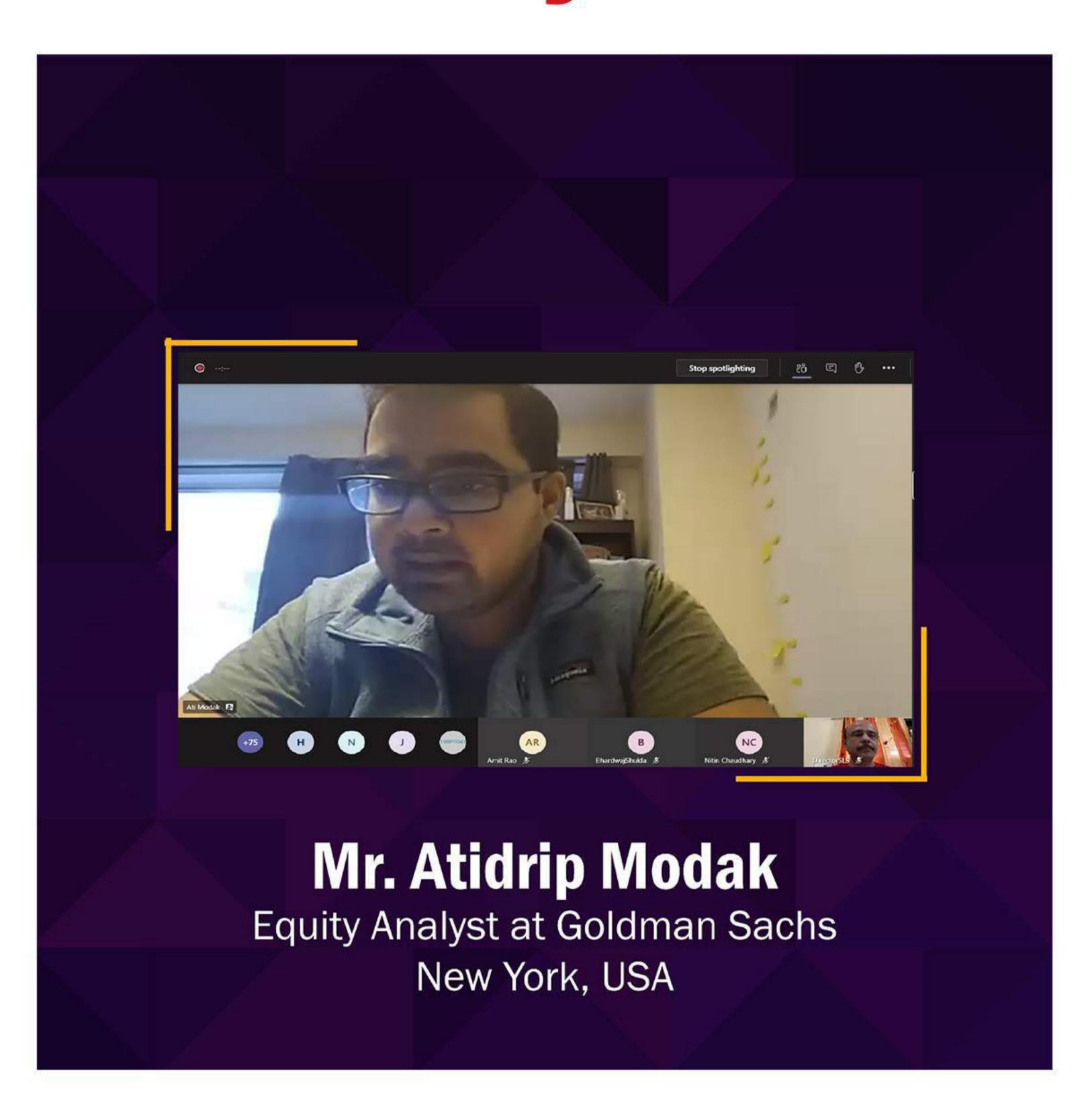
The world is in a stage of continuous flux where terms like socio-economic strata, nationalism, me, and mine are being replaced by one country and one universe. FIPI PDEU Student Chapter visited Aarti Public School to guide the students of class IXth and Xth standard regarding what streams we have after class X and what happens after class XII. It also includes Career Orientation, General Knowledge Quiz, Importance of English Reading and Importance of News and GK in our daily life, and the Motivational Stories for such virtuous and zealous students. We were ecstatic to see the response of the students indicating that they liked the session and got to learn a lot from it and hoped to have more of these.

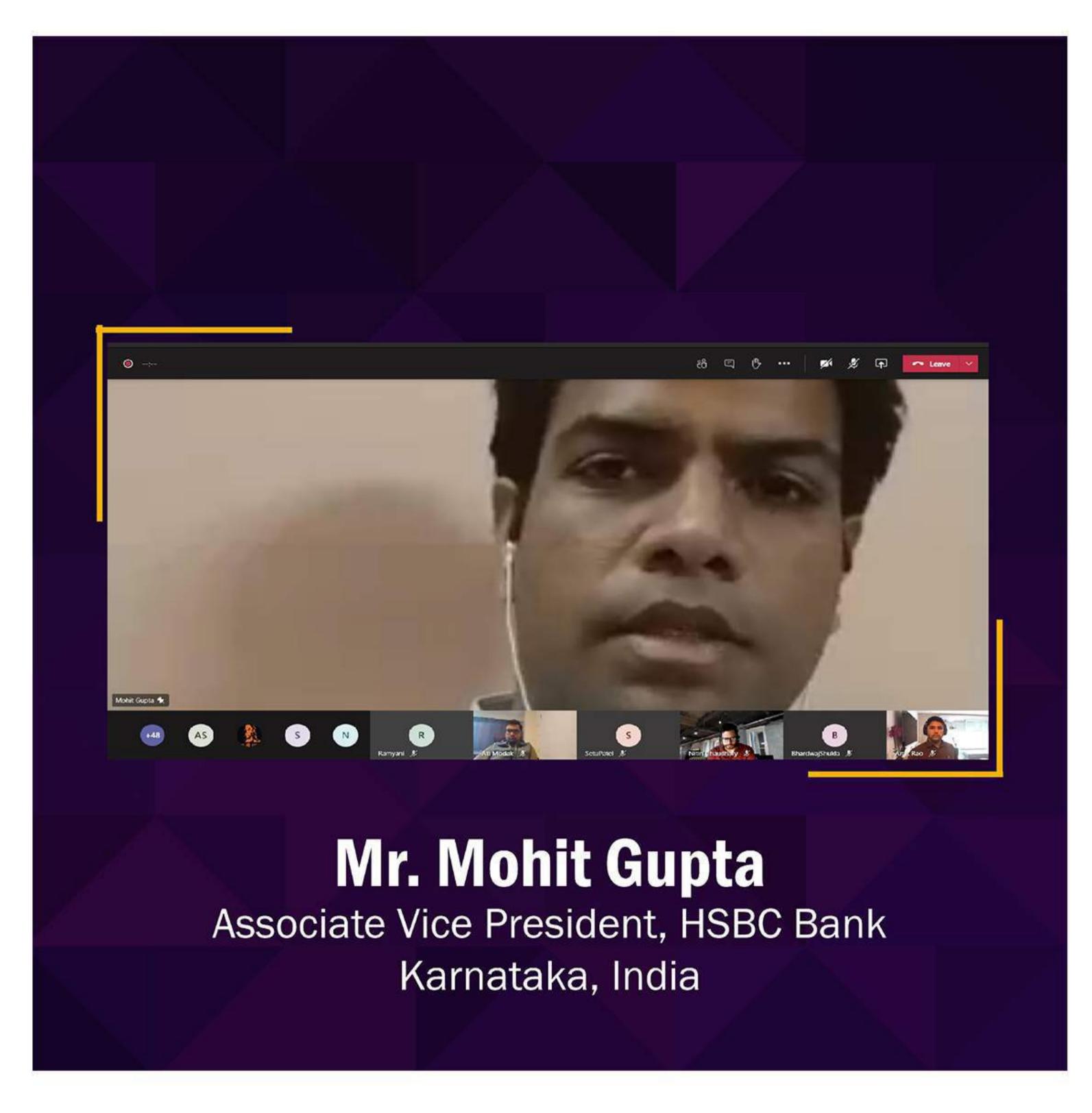
Social Initiatives

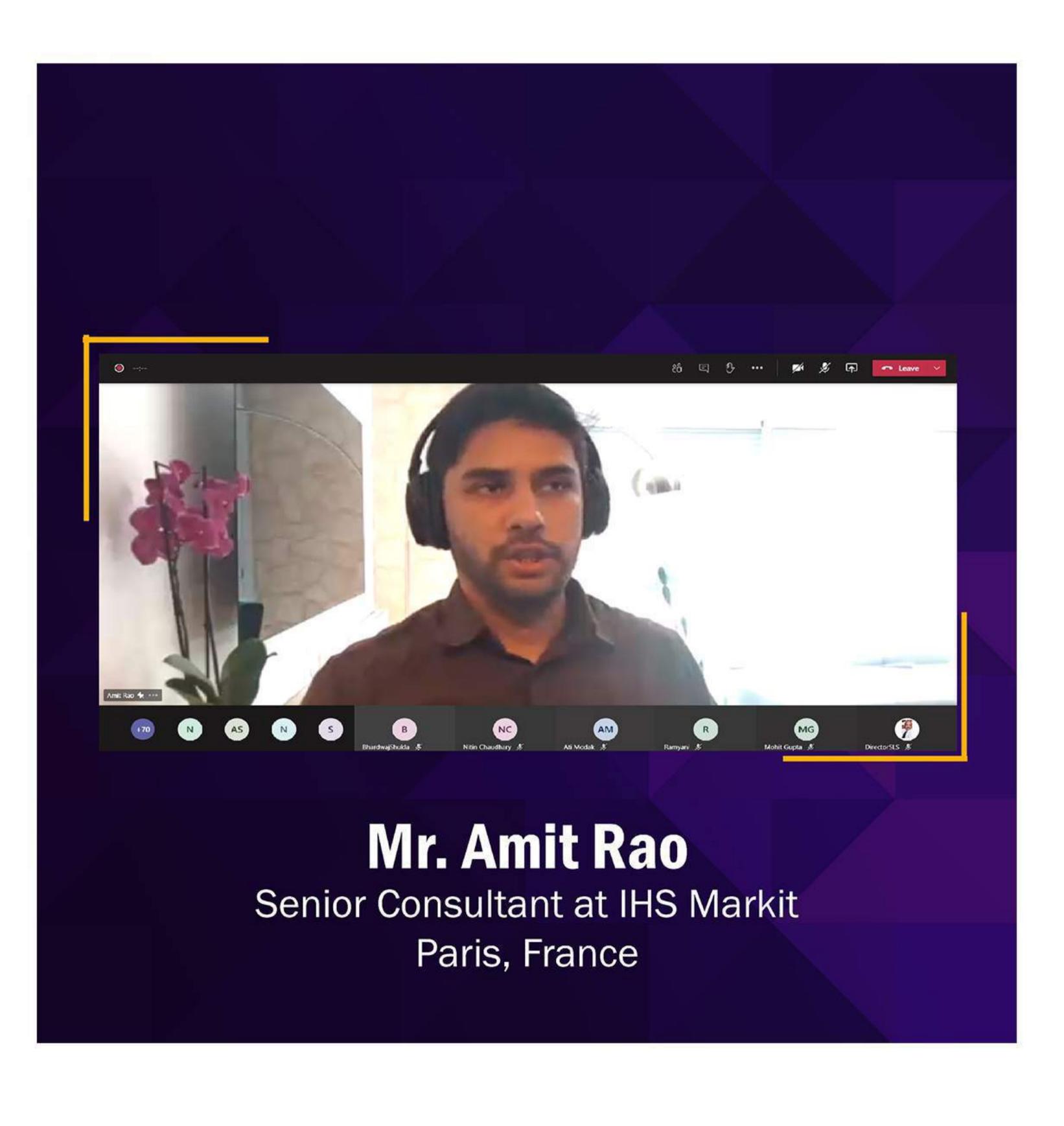


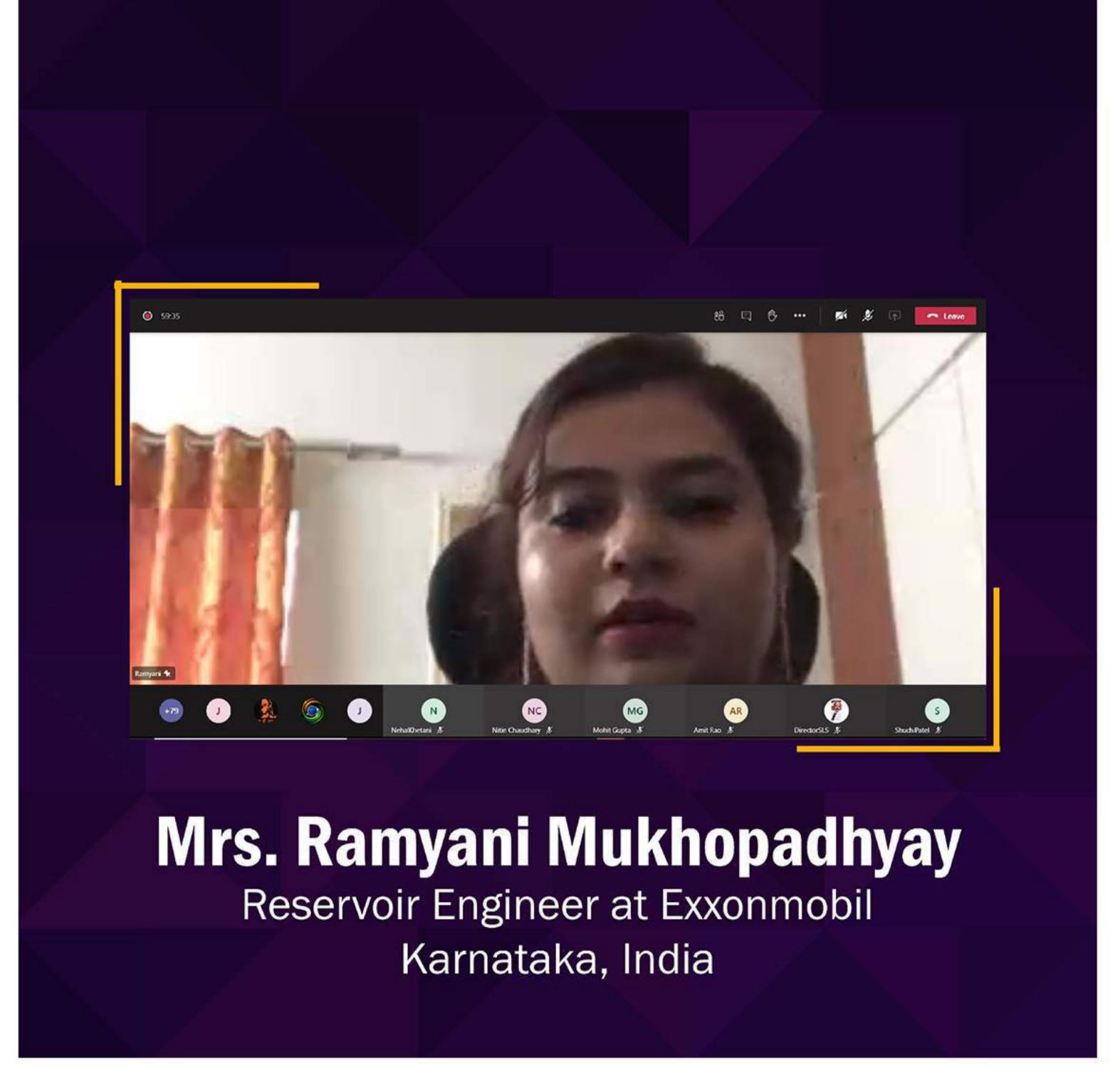
FIPI PDEU Student Chapter organized an extensive Plantation Programme in different parts of our locality. The Committee Members selected the empty places and the roadsides to plant saplings in a well-organized way. In order to restore the eco-balance of the afforestation drive was taken with all seriousness. Participants were highly enthusiastic to make it a big success. The students planted saplings, and fenced them, and watered the plants. Every step of the program was appreciated by the representatives of the administration. The program created a great stir among the general public too. At the end of the program, the FIPI PDEU Student Chapter motivated others to do Tree Plantation to make the city green and clean.

Panel Discussion on Pathways after B.Tech in Petroleun

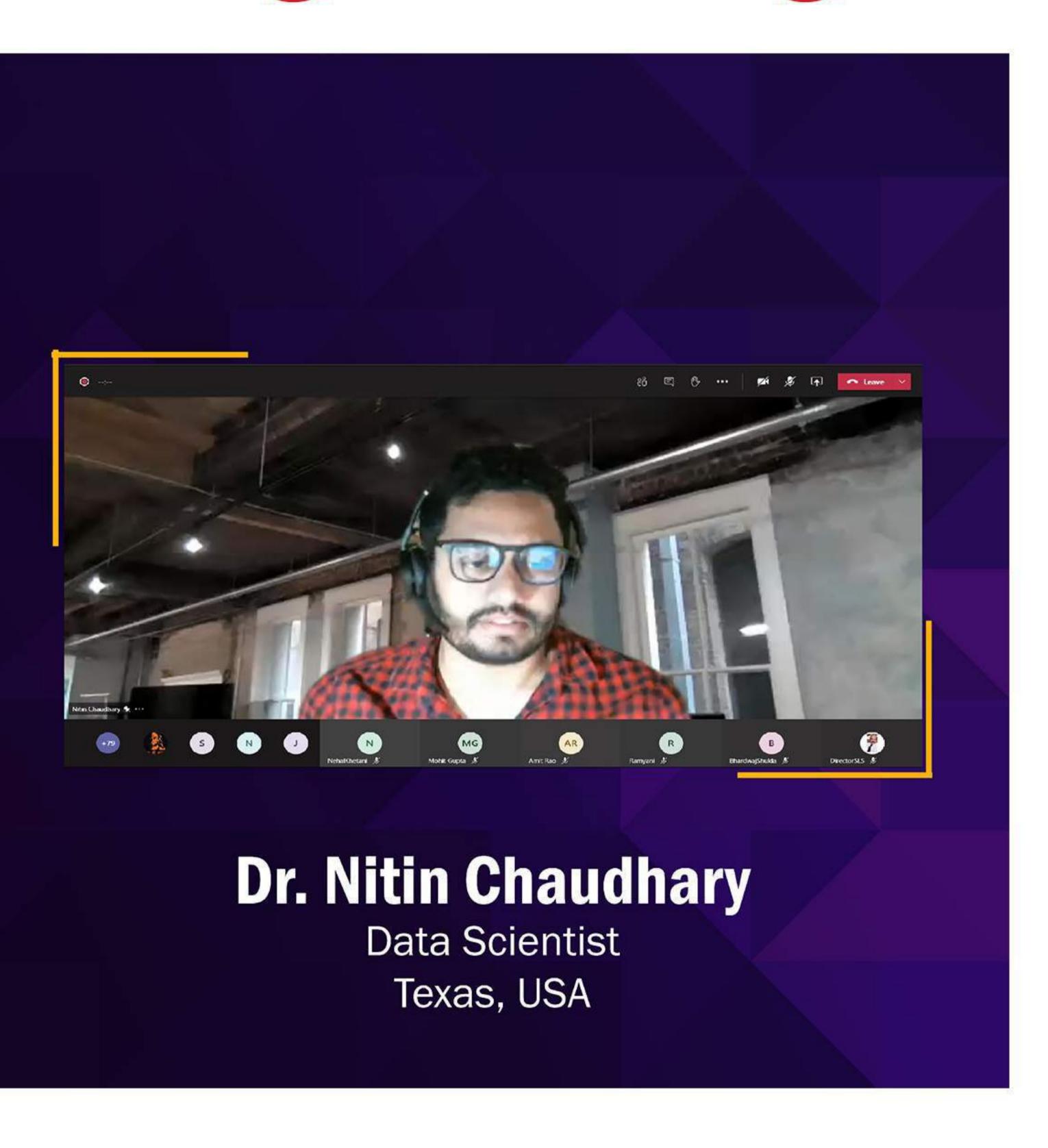


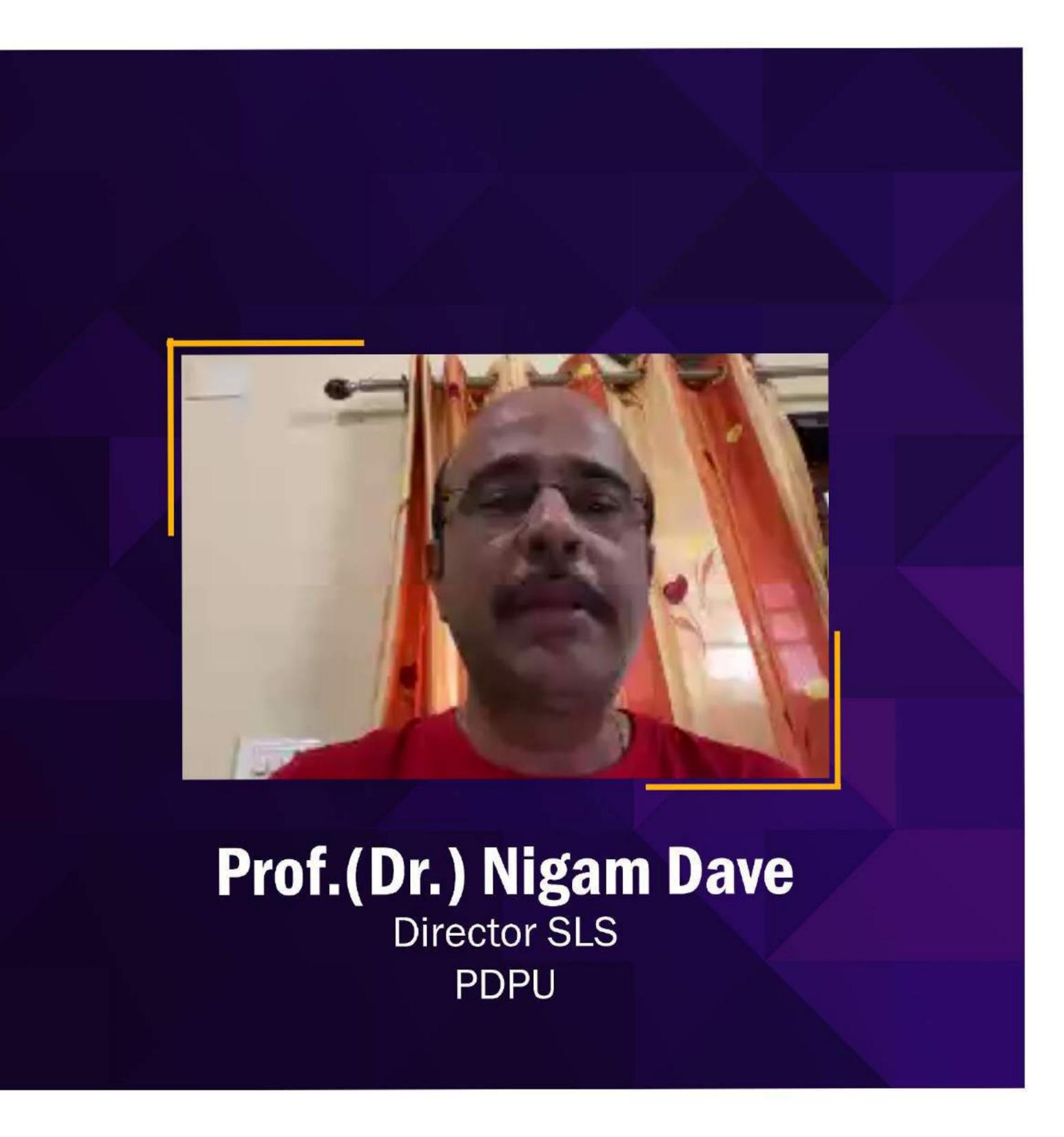






ngineering





FIPI PDEU SC organized an exemplary event named Pathways after B.tech. It was intended to give understudies a superior comprehension of the multitude of various fields after B. Tech. The panel discussion was moderated by Dr. Nigam Dave (Director of SLS PDEU) and the panel also consisted of Amit Rao(senior consultant at IHS Markit), Nitin Choudhary (Data scientist, PHD in petroleum engineering, Texas, USA), Ramyani Mukhopadhyay (Reservoir Engineer at Exxon Mobil), Atidrip Modak (Equity Analyst at Goldman Sachs MBA, Finance, New York, USA), Mohit Gupta(Associate Vice President, HSBC bank)

At the starting of the Panel discussion, Dr. Nigam Dave gave a brief introduction about the topic and then all the panelists shared their valuable experiences of their fields and discussed how to plan for a particular vocation and how the plan can be effective in the world of work in general. Throughout the session, panelists discussed about Campus Placements, further studies with Specialization i.e. M.Tech, Business and Management i.e., MBA, Abroad study, Civil Services Examination etc.

At the end of the Panel discussion, there were queries asked by the students and the panelists answered all their question.

Best Student Char Award

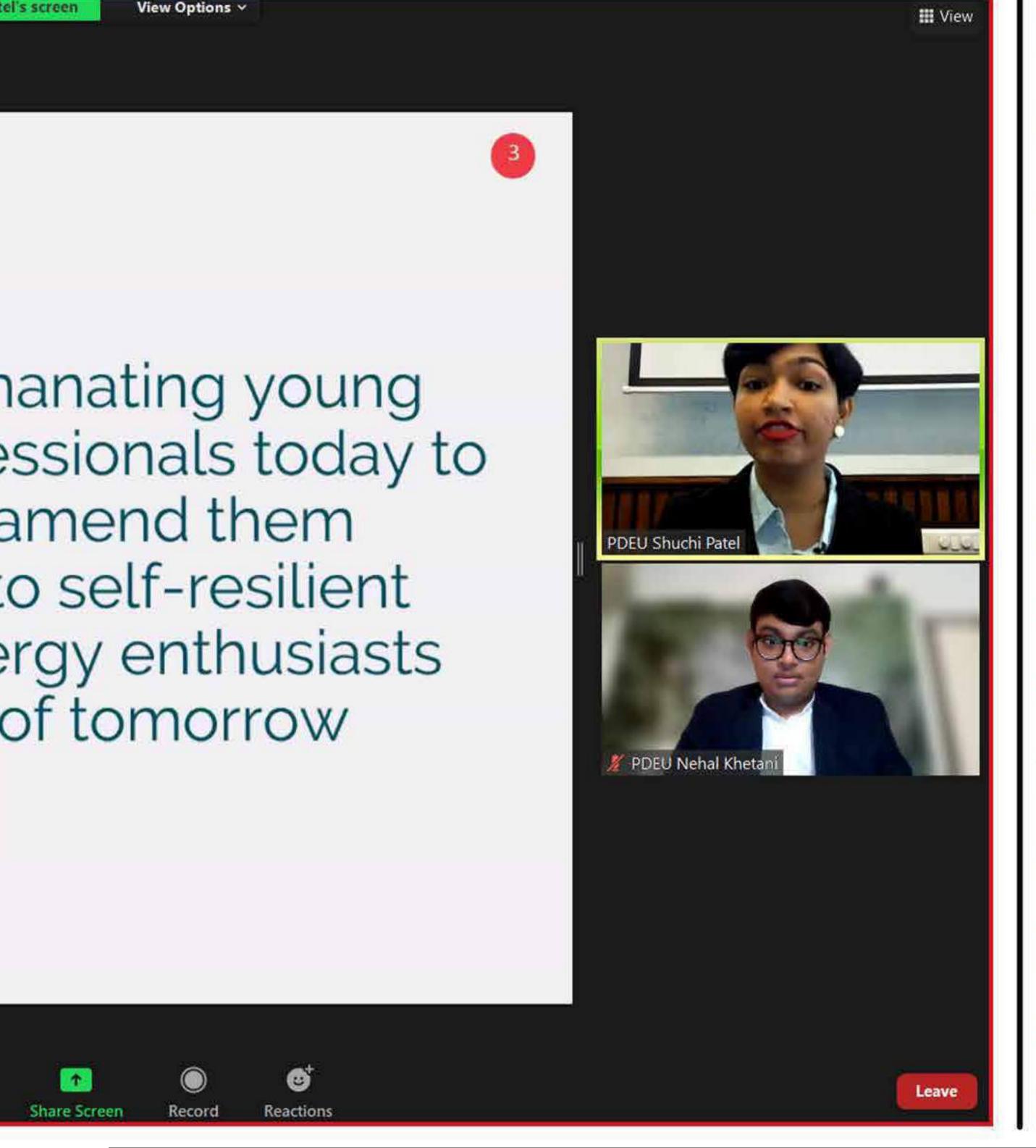
FIPI India organized the 10th Annual Convention on "Meeting Energy Demands Amidst Climate Changes", Wherein FIPI PDEU SC also presented their views by giving the message that a true conservationist is a man who knows that the world is not given by his father, but borrowed from his children. FIPI PDEU SC has always enlightened the youth to proceed towards sustainable energy development with Principle, integrity and experience by providing a platform to mould themselves into the Energy soldiers of tomorrow. FIPI PDEU SC showcased all the tremendous events of the year 2019-20 which included various guest lectures, workshops, online events, informal events and social initiatives. As someone said that coming together is a beginning, keeping together is progress and Working together is success, FIPI PDEU SC was once again recognised as the best student chapter 2020 among its peers all over India at the 10th annual FIPI convention.

FIPI PDEU SC is looking forward to providing the best outcome towards energy with the belief that the apex is yet to be achieved and we will strive hard to achieve it.









Chapter Representation Virtual Workshop

Virtual Workshop on Thermal EOR

A virtual workshop on Enhanced Oil Recovery (EOR) with the theme "EOR Enablers -Technology & Policy Framework to leverage EOR Potential in India" was organized by Federation of Indian Petroleum Industry ("FIPI"). The Workshop was organised to refresh the latest technology developments, academic researches and policy support required in the space of EOR.

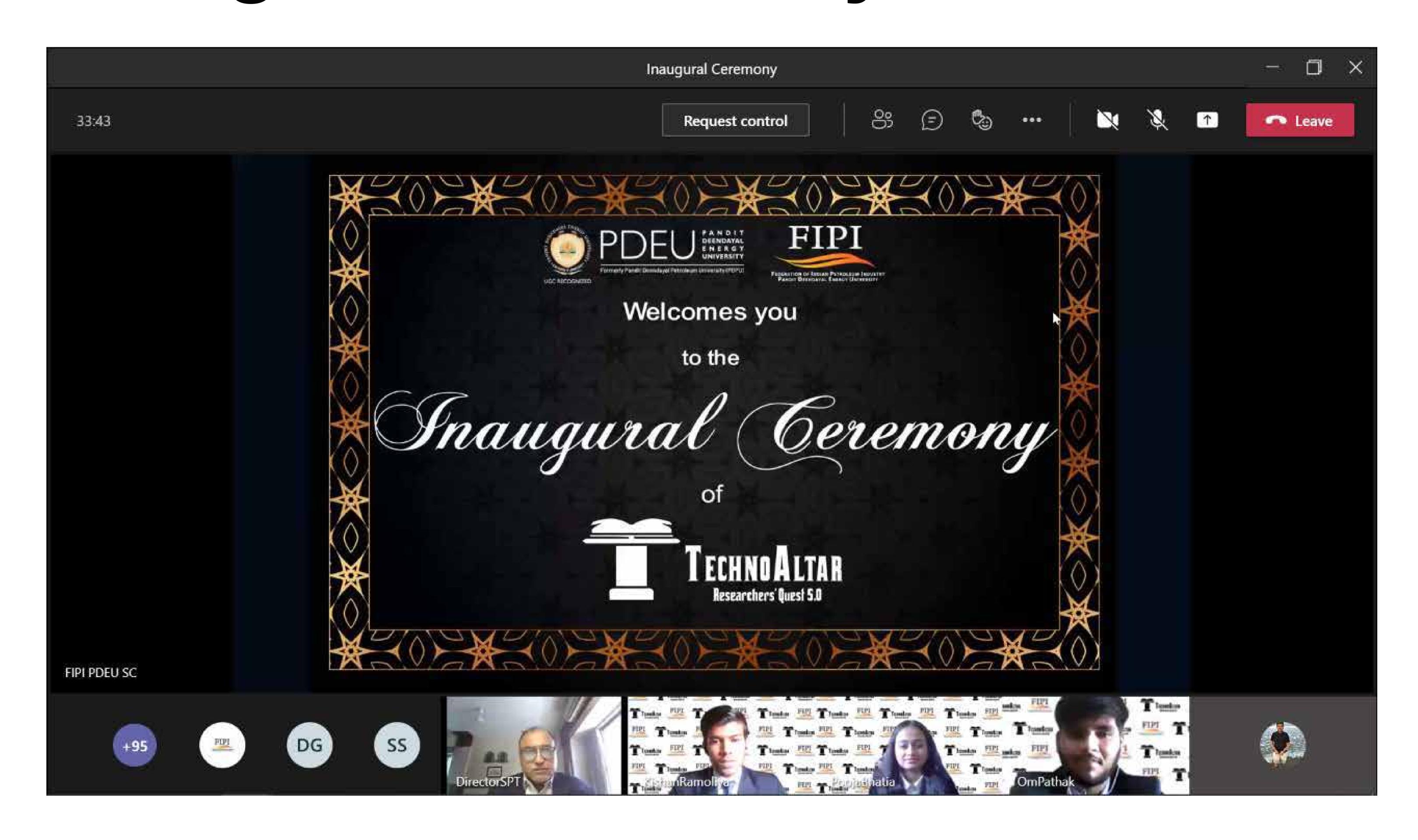
The main issues discussed were about the low productivity reservoirs, high water-cut oilfields, high-viscosity oil and fractured reservoirs shows us the importance of EOR methods application both as promising technologies and technology challenges to improve oil and gas development efficiency in the current situation of low oil prices.

Participants shared their own experiences, discussed existing methods and results of oil recovery enhancement. This workshop reviewed the basic methods of EOR, including thermal, gas, chemical and combined methods of formation stimulation, case studies and position of their application as well as the implementation of new technologies.





Inaugural Ceremony



ahead." The Fifth edition of mega fest TechnoAltar commenced with a Virtual Inaugural ceremony.

The ceremony was started by illuminating the Industrial Guests, Faculties and participants about the history, journey and achievements of the chapter. The inaugural ceremony was honoured by the presence of Guest of Honor Dr. Rakesh Kumar Vij(Director SPT-PDEU) and Mr. Sudhir Kumar(HOD, Producing Fields-II Directorate Hydrocarbons Ministry General

Iways memorize the celebration Petroleum, Natural Gas Government of) and of a milestone. Because when you Chief Guest Dr. Anand Gupta (Additional do it you are ready for the road Director General, Directorate General of Hydrocarbons). They shared their valuable experience and contribution in oil and gas industry and enlightened students with the current changing scenario of oil and gas industry and motivated the students with their valuable words.

> The dignitaries announced the fest open by virtual lighting of the lamp and then the President of FIPI PDEU SC shared the roadmap for MegaFest TechnoAltar. At the end, inclusive addresses of the dignitaries charmed the members with Energy and Enthusiasm.



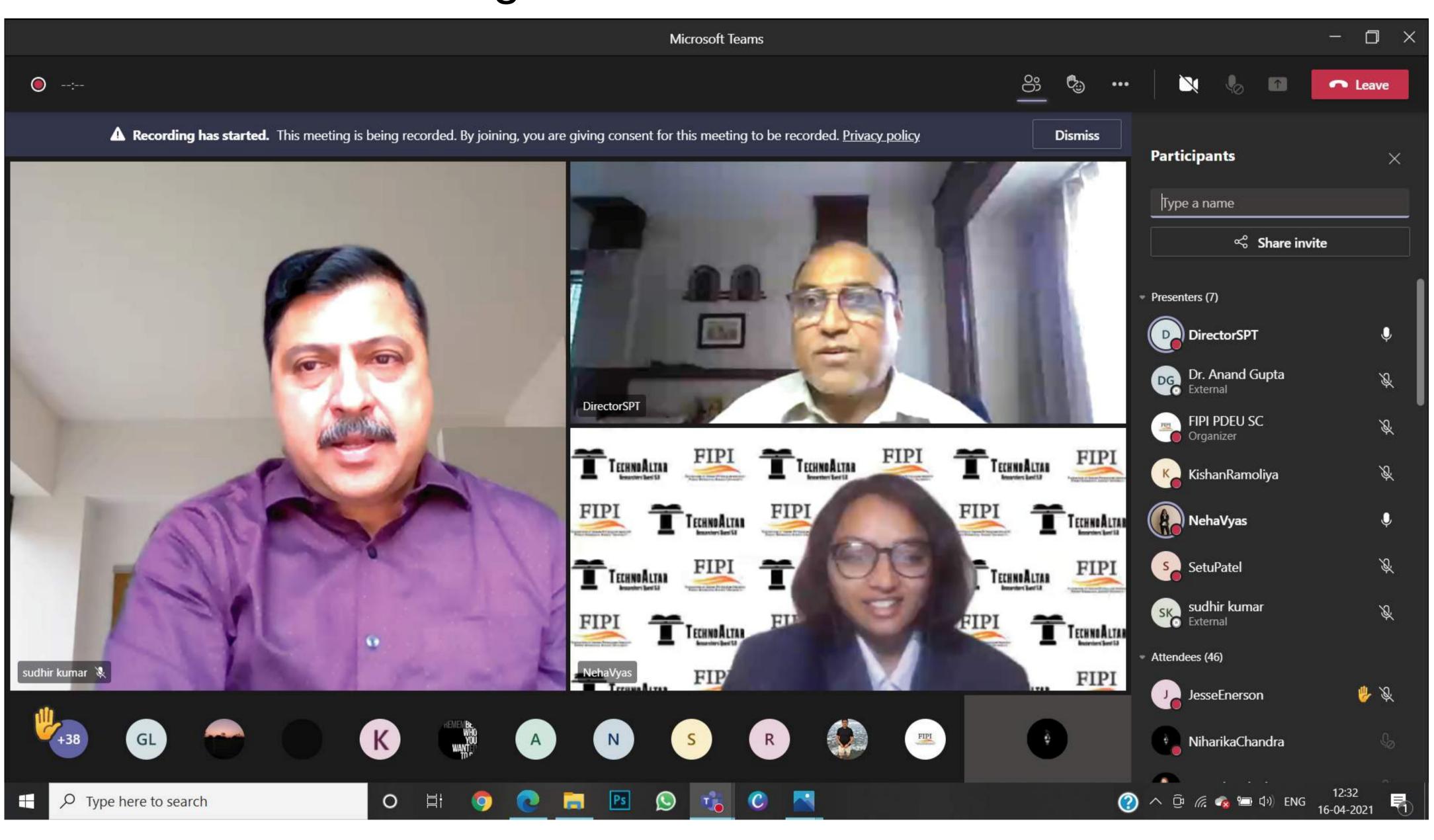
Guest Lecture On India's Future Hydrocarbon Outlook

by Mr. Sudhir Kumar (Producing fields - DGH)

he energy sector has seen various technological transformations from data analytics to artificial intelligence to robotics which are

enabling the sustainable efficiencies energy use, as they improve productivity of resource producers and speed the emergence of renewable energies. As we look into future India's Hydrocarbon Outlook, we see an unparalleled journey.

He talked about energy vision and critical transformation goal. He also said that energy demand increased because of the world shift towards law carbon sources and showed the path of country's energy securities, wherein transformative initiative undertaken during the last 6 years. He also told that the opportunity of Oil & Gas Exploration in India is high and its projects are characterized by high risk.



As a part of TECHNO ALTAR 5.0, FIPI PDEU SC hosted a Guest Lecture on India's Future Hydrocarbon Outlook by Mr. Sudhir Kumar, HOD, Producing Fields-II Directorate General of Hydrocarbons the session thought provoking. Ministry of Petroleum, Natural Gas Government of India.

He explained all these topics in a dynamic and plenteous manner while an swering the doubts of the inquisitive minds. The enthusiasm shown by students kept

Guest Lecture On AI, ML & DL in Oil & Gas Industry

he oil and gas industry has always been associated with challenges and complexities. Due to the global and distributed nature of the

by Dr. Rakesh Kumar Vij (Director SPT, PDEU)



business, processing and managing this information is an arduous task. Artificial Intelligence (AI) and Machine Learning (ML) in particular, have gained huge many areas recently, acceptance in including the Oil and Gas Industry.

FIPI PDEU SC hosted a guest lecture on AI, future, so we must get its governance ML and DL in Oil and Gas Industry by Dr. rights". Rakesh Kumar Vij, Director SPT, Pandit Deendayal Energy University.

plenary began with an very informative.

introduction about the AI, ML and DL. He explained to the participants about the "Importance of AI, ML and DL in the Oil and Gas Industry". He covered a plethora of like Market topics Trends and Development, explained Elements of

Digital Oil Fields – AI, ML, DL, Data Pool, Digital Twin, Augmented Reality etc. He briefly explained the Ongoing Applications in Indian E & P sector, Adaptation of different technology, Benefits of AI and what are the challenges faced by Oil and Gas Industry. At last, he ended his lecture with As a part of TECHNOALTAR 5.0, the Regulator's role i.e., "Data will drive the

> The lecture was appreciated by the students and they also found it to be

Technical Paper Presentation Competition

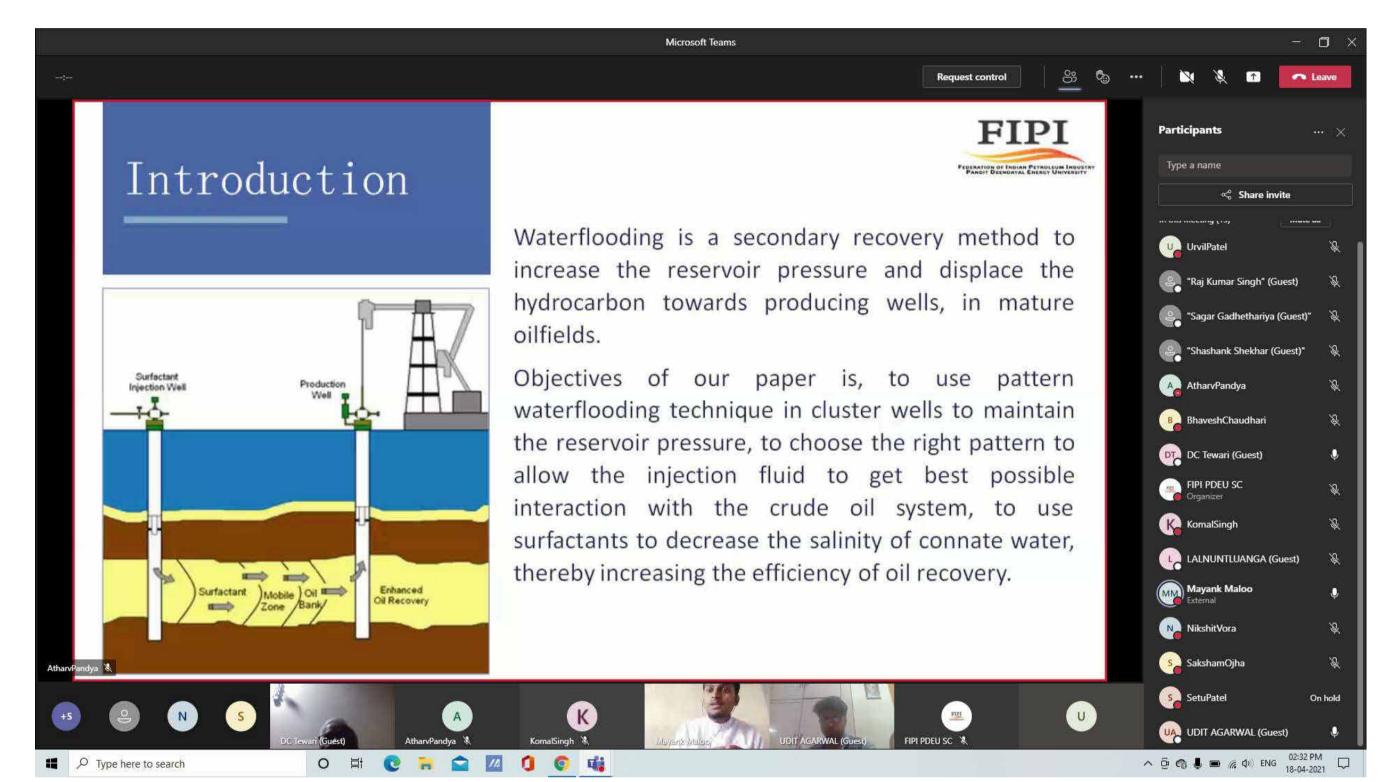
FIPI PDEU hosted PRASTUTIKARAN-Technical Paper Presentation Competition on the last day of our megafest

Technoaltar 5.0. A prodigious amount of students from PDEU as well as other reputed universities of India, participated in this event. The

held in competition was parallel included Drilling, Production, Reservoir, Energy and a separate panel for the 1st year students in order to their presentation skills. The of aim the technical understanding to potential outcomes that could make aspire for a futuristic betterment of the industry.

Prastutikaran held importance utmost as participants got a chance to

Prastutikaran present a core topic where simultaneously sharpened their presenting skills. the Some discussed topics were The Evolution of Nanoparticle aided Hydraulic Fracturing, Water flooding aided with nitrogen miscible injection, CO2 Sequestration on New Materials, etc.



the participants All panels which had to submit their abstracts and presentation before the fest. After reviewing them, the selected participants got the chance to present their The event papers. judges from respective prastutikaran was to convert domains who tested their knowledge of the subject and enlightened them about the innovations in the oil and gas industry and enriched the Everyone event. appreciated the event and found it to be very informative.

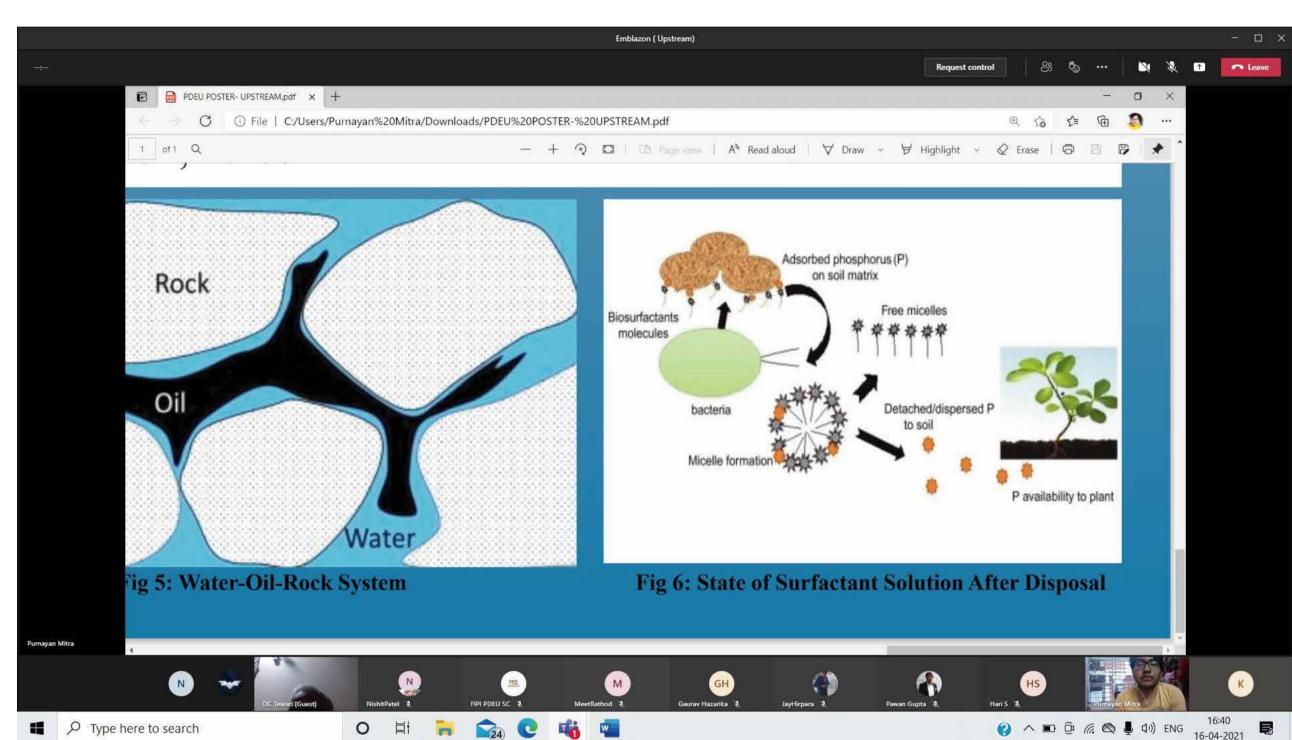
Emblazon

Technical Poster Presentation Competition

In the midst of the of extravagant buzz Technoaltar FIPI 5.0, organized PDEU a competition staggering **EMBLAZON** named technical poster Competition presentation where students transcribed their innovative ideas eye-catching through posters which provided an opportunity to learn in detailed about a core subject which is a part of curriculum and develop effective presentation skills showcasing by their presentations on topics like Drilling technologies, Exploration Hydrocarbons, Reservoir Production and technologies. All the participants had to submit their abstracts before the fest. After the reviewing procedure, the selected participants got the chance

TECHNOALTAR

to present their poster. The event was organized in two different parallel panels i.e upstream and downstream enormous number of participation from students of different fields. There was a special panel for the students of first year so that they could nurture



their presentation skills and Engineers. The team of two Contougeo compete with the students of their level. Students were judged on the basis of their competition. The confidence, creativity, understanding of the topic and their presentation skills. Students various from universities enthusiastically them about the innovations in the oil and gas industry and enriched the event.

Gollum's Riddle

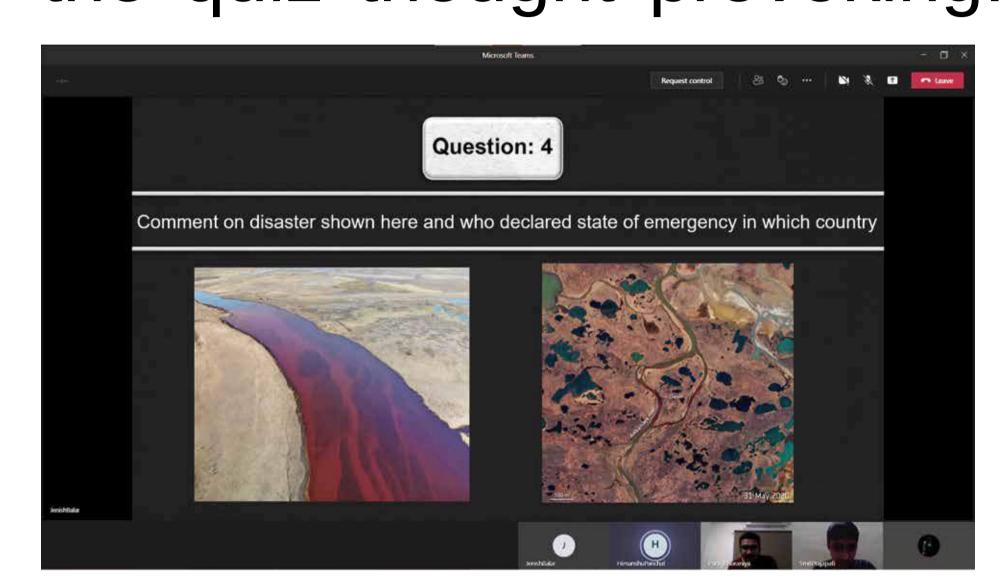
Technical Quiz Competition

In order to scrutinize the technical knowledge of the students, FIPI PDEU SC organized a technical quiz

competition as a part Technoaltar Researcher's Quest 5.0 named Gollum's Riddle in association with the Institute of Pawan Gupta & Hari 5 & Hari 5 & Pawan Gupta & Pawan Gupta & Per troller Um

Or three participants was To tackle the made Mind -boggling and astounding Questions that were covered in this Competition noAltar Researchers Quest were from Geology, Drilling, Reservoir, Well testing, took part in this competition. EOR and Current trend of oil 'ContouGeo'. The The event had judges from and Gas industry, etc. There began with the instructions respective domains who were mainly three rounds. In to the participants by tested their knowledge of the the 1st round participants Harshal Gajera, Member of subject and enlightened had to answer 40 questions. FIPI PDEU Student Chap-After responses, Eight teams event was completed earliwere Qualified for the er and in Round-II, total 6

made it to the third Round where they had answered the questions in 15 seconds enthusiasm The each. shown by participants kept the quiz thought provoking.

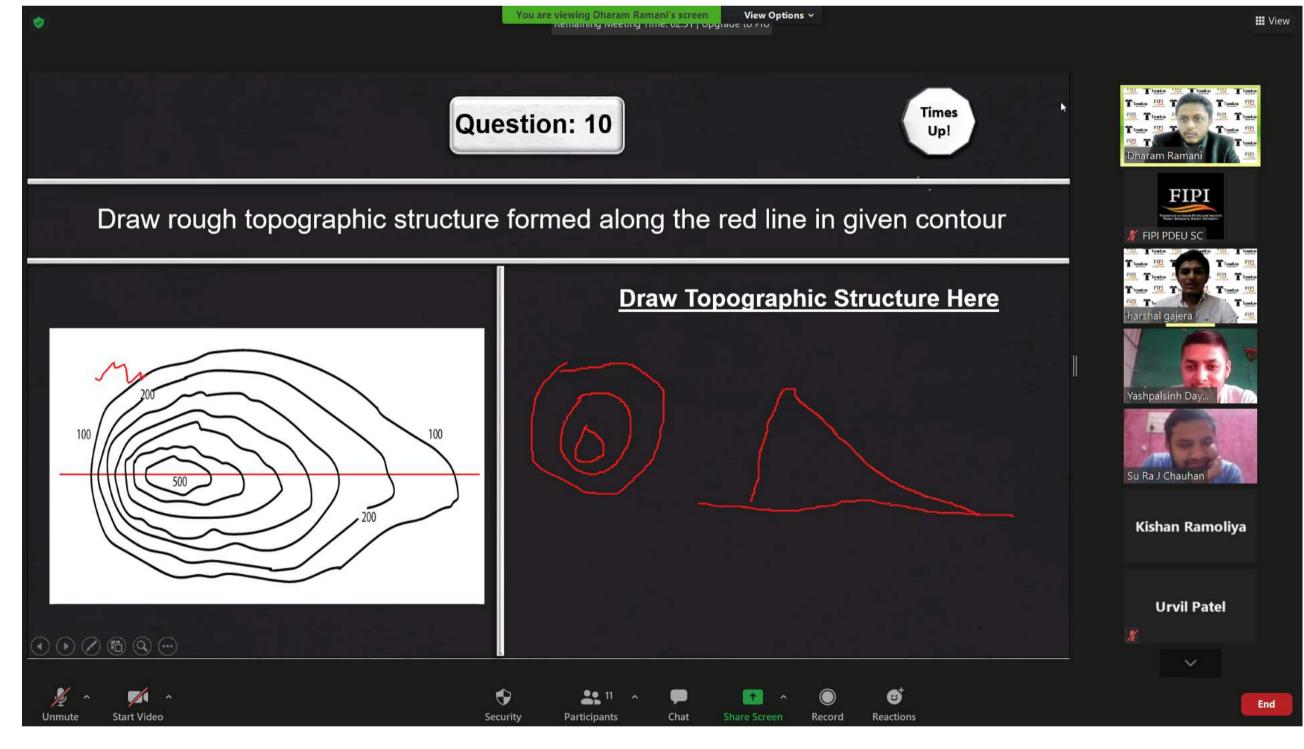


The quiz was appreciated by the participants and they also found it to be very informative and interesting.

Contour Quiz

As a part of Tech-5.0, FIPI PDEU SC organized a spectacular event event the tremendous ter. The Round-I of the second round. Five Teams teams participated in the

total where event participants in which 5 questions were based on general oil and gas whereas 5 questions were based on identification of fold, fault and construction of topographic structure from Contour Map. Participants had to answer within a time limit of 15 seconds for the first 9 questions and after 15 seconds the leader of the team had to give the final



answer. In the last question, Stratigraphy was given to each team from which they had to make the Contour Map. The questions were asked through a presentation Dharam by Ramani, Member of FIPI PDEU Student Chapter and the final scores were noted by Urvil Patel, Member of FIPI PDEU Student Chapter. Participants enthusiastically

questions were asked to the questions and made it a were given a budget and great event.

Bid-2-Win

Block Bidding Competition

As of a part TechnoAltar Researchers' Quest 5.0, FIPI PDEU SC organized a spectacular event 'Bid to Win'. The event began with the introduction

> of our Chief Guest DGH Kunal by Nagdev, Member of FIPI Committee. Mr. Dheer Singh, Judge of the Event started presentation and

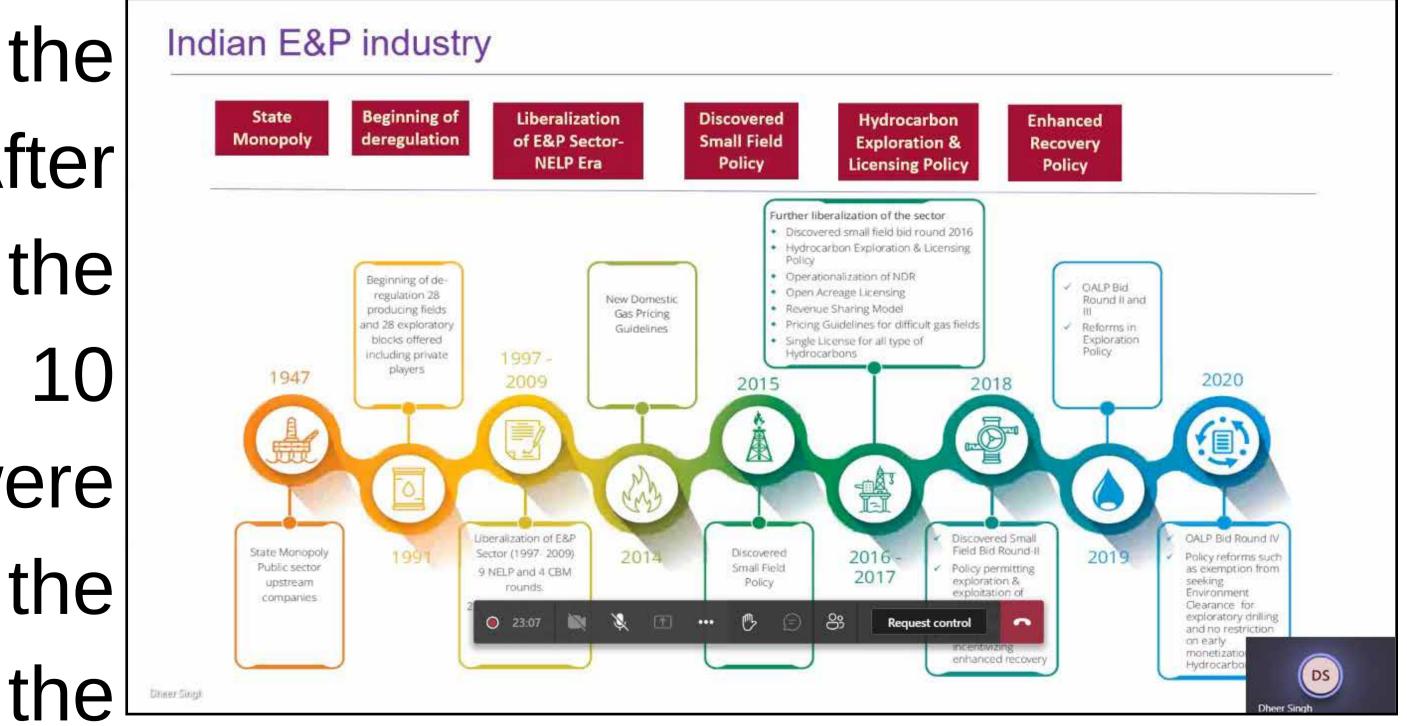
his explained about the bidding of the block. After Mr. Dheer Singh's presentation there was a Round-I of quiz in which 15 questions were

asked to the participants. After finish of the Round-I, 10 top participants were selected for the Round-II.

10 gave all the answers of the second round participants were asked how they will use their money in drilling wells and where they will drill the bid and many other questions. The bids were noted by Mr. Dheer Singh in the Excel Sheet. FIPI PDEU Student Chapter would like to thank our Judge Mr. Dheer Singh and our Event Partner DGH for their valuable time towards FIPI Student PDEU Chapter and guiding the and Event Partner students in the field of Oil and Gas Industry.

Logger's Hunt

Well Log Interpretation Competition



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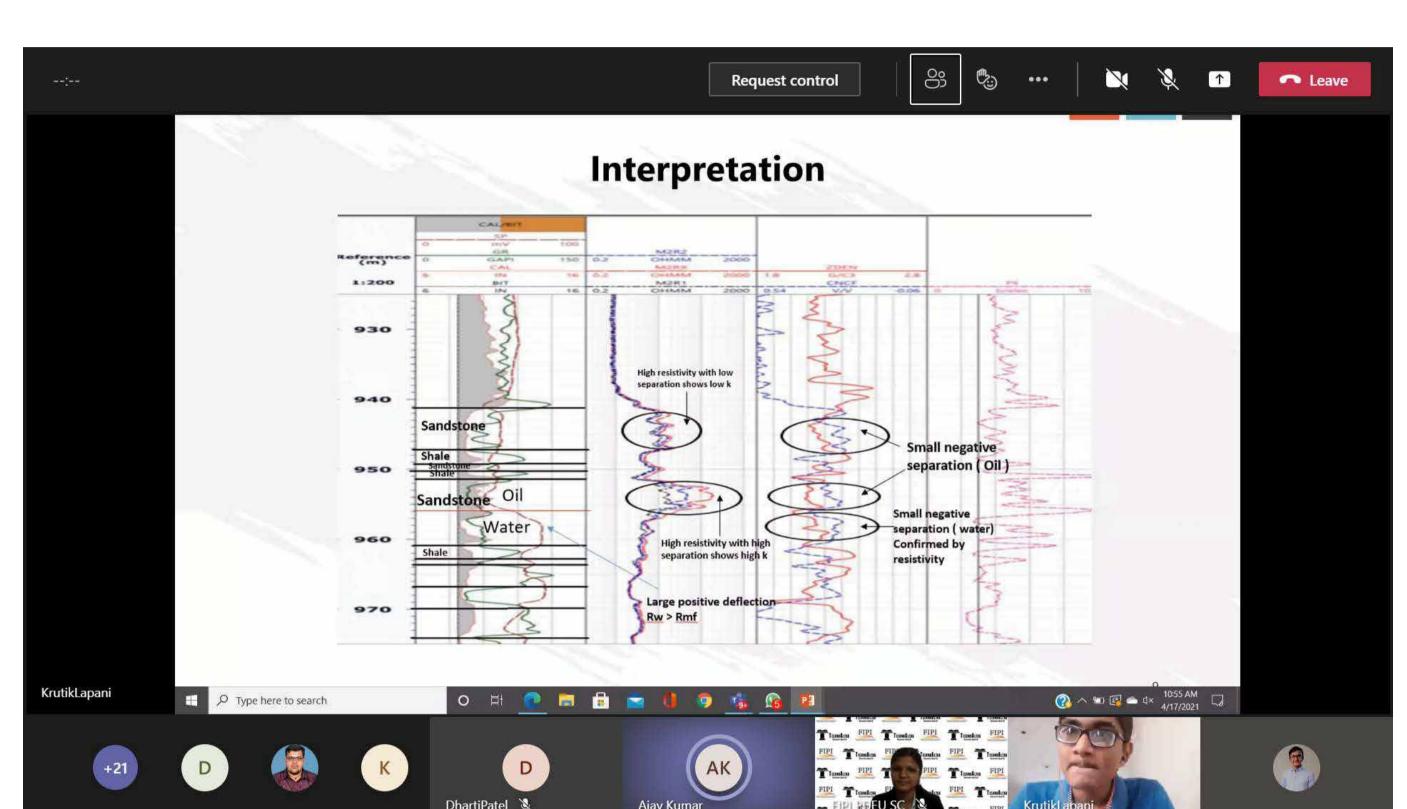
TechnoAltar 5.0, FIPI PDEU SC coordinated "LOGGER'S HUNT Well Log Interpretation Competition.

As a part of the properties of the reservoir.

The event was valued by the members and they likewise discovered it to showed

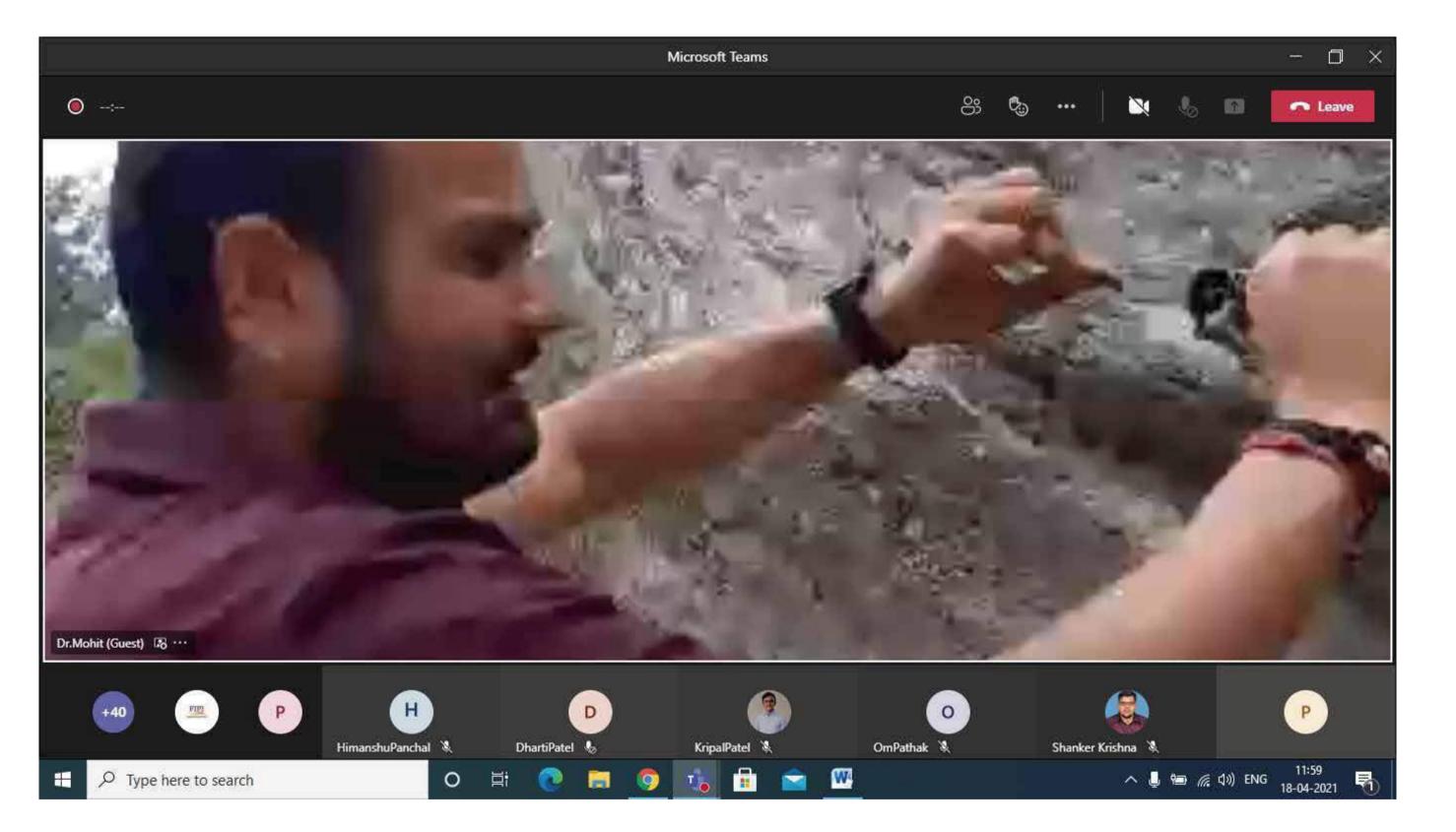
> be instructive and fascinating. In this event Participants actually upgraded their scientific abilities improved and

The main aim of this event their insight in the individual regions.



was to enhance knowledge Well about Log Interpretation. This was a brainstorming rivalry that consisted Quiz contextual analyses dependent on Well Logging and Formation Evaluation. Event Partners for the logger's hunt were IPE and HLS-India. The first round of the event consisted of 40 quiz type questions on an online IPE platform and the second round consisted of interpretation of well —log. In the second round participants interpreted the vital with well logs information regarding the lithology and petro physical

Virtual Field Trip



Researcher's Quest 5.0, FIPI organized that kind of event. SC organized an marvellous event 'Virtual Field Trip' by Dr. Mohit Kumar Puniya who is scientist at informative and interesting. National Geotechnical Facility, Surveys of India.

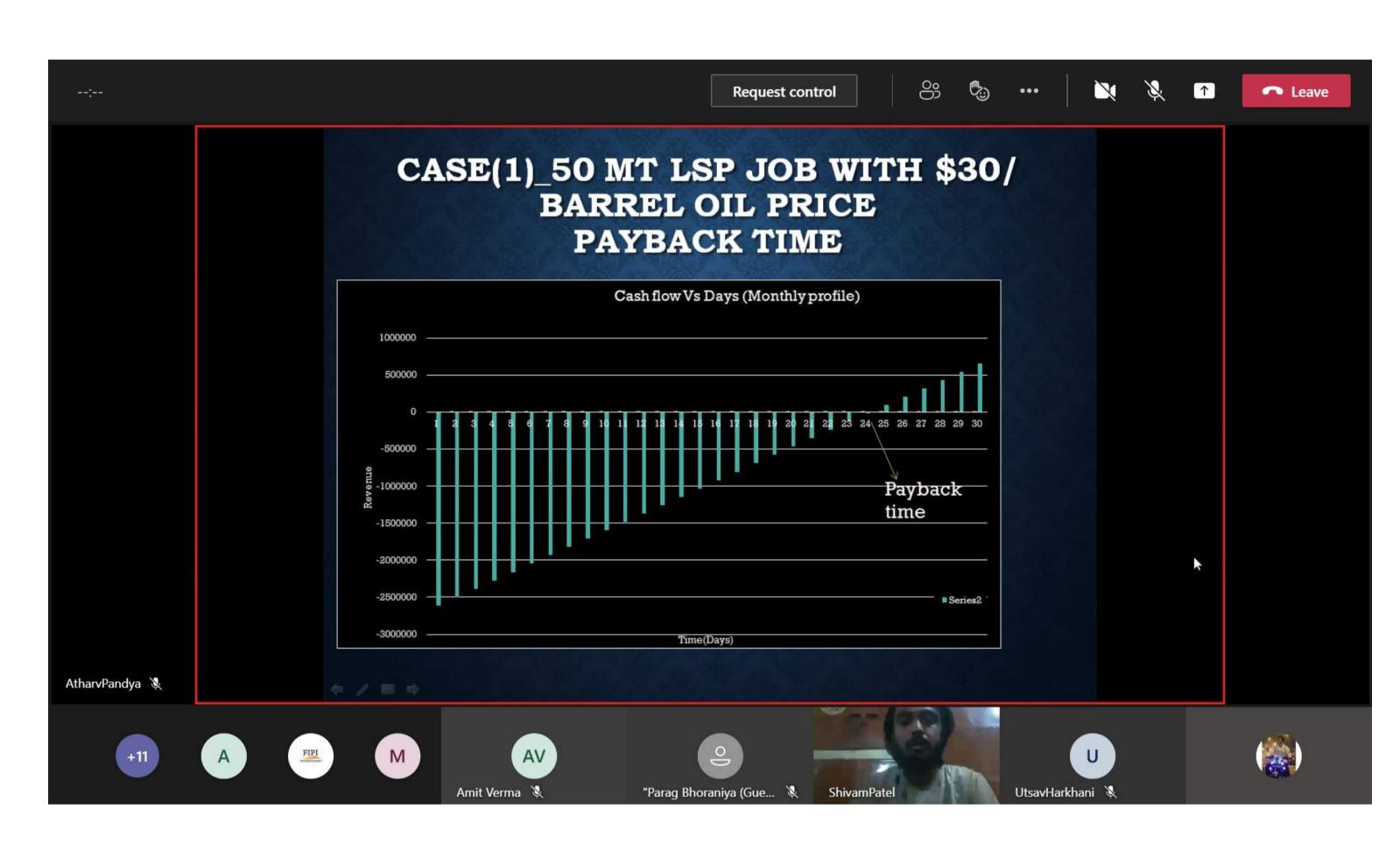
decided He the location near the Higher Himalayan field and visited destination each and the sedimentology, structures, etc live. They showed the geological Foliation Plane and taught how to identify it. He also talked about deep Showed and the strike brinton compass and how to use it. They cleared the concept of stress and strain on the Foliation Plane. They joints also showed and fractures and gave techniques on how to find it and identify it. Really, Virtual

> field trip experience intended to create an immersive and realistic environment. This was the first

As a part of Technoaltar time any student Chapter The session was appreciated by participants and they also found it to be very

Solvier

Case Study Solving Competition



As a part of TechnoAltar Researchers Quest 5.0, FIPI organized **PDEU** spectacular event 'Solvier- A solving Study Case Competition'. The event began with the instructions to the participants by Bharadwaj Shukla, Member of FIPI PDEU FIPI PDEU SC organized Student Chapter. In this event, a pre fest online event participants did a detailed PETROCATURE - A theme analysis of situations related to the Oil and Gas Industry. Participants were evaluated under the banner of the mega based on the best suitable and fest 'TechnoAltar Researchers' accurate approach to the Quest 5.0'. problem. Participants also used their problem solving skills to identify the solution. purposes and functions, but at From the solutions of the case a fundamental level, they study by participants, top 8 serve as an expression of teams were selected to give people's opinions

their prestitation on the case emotions. They are simple, study which they had solved. succinct and explicit in their helped the This event students to provide insight for

> research and provided detailed information of Oil and the Industry. Gas the From presentation

top 3 winners were declared.

Petrocature

Online Meme Making Competition

based meme making competition on online classes

Memes serve many and

messages, and this cultural paradigm is a reflection of the mentality of modern one that values entertainment, champions materialism, and reinforces the need felt by people to This relevant. remain competition was designed With the intention of having great fun and examining the humour of the participants. competition this participants had to make a meme on the provided topic that were posted on our social media platforms and the winners were decided on the basis of the number of likes and shares on their post.

It was a golden opportunity for the participants to test their skills over the best co-relating power with the real life and turn it to a great meme. Prize money worth Rs 1000 was awarded to the winners. Participants gained experience on how to increase the number of likes and shares on any social

TECHNOALTAR

and entertaining.

Portraire

Themed Photography Competition

FIPI PDEU SC organized pre fest online event named PORTRAIRE- A theme based Photography competition on Indian the streets 'Down traditional markets'.

photograph is The completely abstracted from life, it looks like life. That is what has always excited all of us about photography. With PDEU SC this belief FIPI organized photography Wherein competition markets, Different shops, types of customer and types of things sold We got entries from all over India. The event assesses photography skills of the participants. In the event, Petroleum Technology).

media platform. Thus, the half of the evaluation would The main aim of this event event was appreciated by be based on no. of likes and was to seek after free participants and they also shares obtained for the photo examination on an engaged found it to be very interesting posted on our official social theme media pages (Instagram and exploration and relational Facebook). Participants gained experience on how to increase likes and shares and their they increased photography skills. The motto of the event was satisfied by bridging technical knowledge of social media. The event was appreciated by participants and they also found it to be very interesting.

Aggrandize

Essay Writing Competition

Essay writing is imperative since it upgrades our creative considering ability, and envisioning capacity. In this event the understudies were participants submitted the approached to pass on their photographs of historical sees on India's approach towards Gas Based Economy in the form of essay. The essays were judged by Dr. Anirbid Sircar(Professor, Petroleum Engineering, School of

and create abilities. The purpose of this event was to build up the abilities of imaginative and basic education and to take deliberate part interaction of exploration, proper to the subject of the experiences and the energy of scholarly revelation.

Participants writing skills by ideas various providing regarding the topic and this event helped them to gain knowledge about more India's approach towards Gas Based Economy.

COMMITTEE 2020-21

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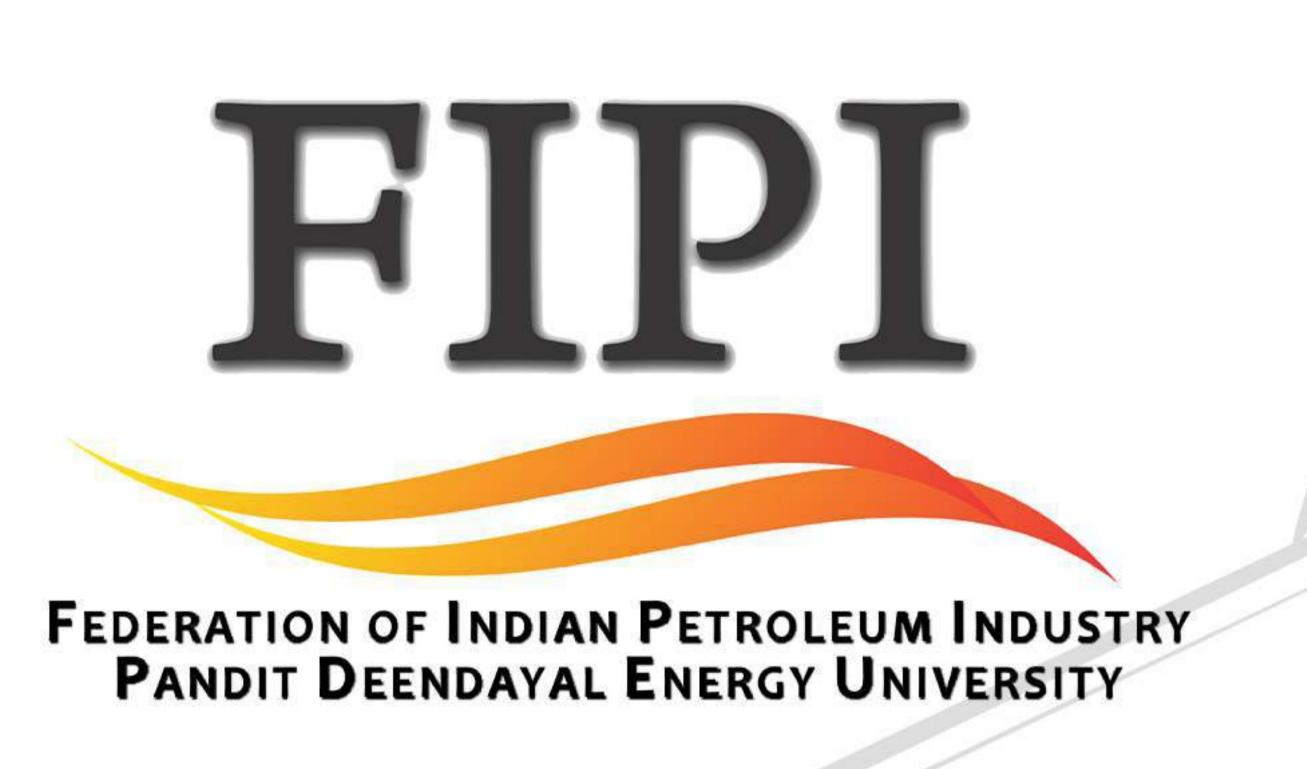
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Umit Maniya

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