



College Of Engineering Roorkee

(Governed By Seth Roshan Lal Jain Trust)

Recognized By AICTE Affiliated to UTU Government of Uttarakhand

Post Box No. 27, 7th Km. Roorkee-Haridwar Road, Vardhmanpuram, Roorkee (U.K.) 247667

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REPORT ON

One day workshop on NPTEL

National Program on Technology Enhanced learning

Jointly organized by NPTEL, IITR and COER
At COER

Date: 18/02/2019

Venue: Seminar Hall, Civil Engineering Block, COER, Roorkee

Speakers:

1. Prof. B K Gandhi, Professor, Department of Mechanical Engineering, IIT Roorkee, Coordinator ET cell.
2. DrNibeditaBisoyi, coordinator, NPTEL, local chapter

Chief Guest: Dr. Anita Rawat, Registrar of Uttarakhand Technical University

Coordinator, COER: Dr. B M Singh, Dean Academics

MOC: MsDivya Mishra, Assistant Professor, CSE Department, COER

Participants:

1. Faculty Members of College of Engineering Roorkee
2. Students of College of Engineering Roorkee
3. Faculty members from other institutes such as (IIT Roorkee, Ramanand Institute of Pharmacy and Management, Haridwar, Department of Commerce and Business Studies, JamiaMilliaIslamia, UPES Kandoli campus, Vidya Classes, DishaBharti College of Education, Delhi road, Saharanpur, J V Jain College, Saharanpur).



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A one-day workshop on 'NPTEL (National Program on Technology Advanced Learning)' was organized successfully at College of Engineering Roorkee (COER) situated at Roorkee, Haridwar National Highway. This workshop was organized jointly by College of Engineering Roorkee (COER) and IIT Roorkee.

The workshop started with the address of **Ms Divya Mishra** to all participants and by presenting a flower bouquet to the guest speakers and to **Prof S P Gupta**, Director General, COER. **Dr. Brij Mohan Singh**, Dean (Academics), welcomed all the participants and guests and highlighted the importance of this workshop. In his welcome address he explained that online learning is rapidly becoming one of the most cost effective ways to educate the world's rapidly expanding workforce. In view of this, a day like today is very important for all of us, as it provides us the opportunity to learn about NPTEL courses, which are very popular in technical education fields. He also explained that the aim of this NPTEL Awareness Workshops is to create maximum awareness among students and faculty members about NPTEL and its various initiatives.

Dr Anita Rawat, Registrar UTU, was then invited to inaugurate the workshop for all participants. In her address she gave special emphasis on the quality of higher education. This workshop was organized under the leadership of the Director General, Prof. S.P. Gupta.

The workshop further proceeded with session on NPTEL and its features, NPTEL Online Certification courses and the concept of NPTEL Local Chapter. **Dr. B.K. Gandhi** introduced the concept of NPTEL. He further explained that in 2003, a National Program on Technology Enhanced Education (NPTEL) was started with seven Indian Institute of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) with the Indian Institute of Science, Bangalore. Now the work is being done in this direction by developing courses in web / video format in the field of civil engineering,



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computer science engineering, electrical engineering, electronics and communication engineering and mechanical engineering.

All online courses are available at www.nptel.ac.in.

1. There are more than 1000 online courses present today which are web and video based. Online certification can also be opted by the candidate. These online certificate courses are certified by IISc and IITs.
2. Candidates can submit online assignments which will be evaluated by professors of IIT and IISc. Then candidate can appear for exams in selected cities.
3. NASSCOM (The National Association of Software and Services Companies) powered by google provide high quality affordable education at large scale.
4. E- verifiable certificates are issued for completion of course.
5. Transcripts of video lectures are available. The portal also consists of discussion forum where a candidate can post your doubts and mostly asked question will be shown on the portal.
6. He further explained that anyone can get register at any time from any place for online NPTEL courses.

Sir, further explained about MOOCs (Massive Open Online Courses) is free online courses available for anyone to enroll. MOOCs provide an affordable and flexible way to learn new skills, advance your career and deliver quality educational experiences at scale. Sir also introduced about SYAWAM (Study Webs of Active-Learning for Young Aspiring Minds) portal. Sir explained about the new initiative which is taken in January 2019 regarding online certification courses:

1. A MoU has been signed with AICTE for NPTEL courses.



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2. Virtual labs are introduced to provide remote-access to labs in various disciplines of science and engineering.
3. IISER Pune offered a pilot certification course.
4. Internship for toppers is to be provided.
5. Mobile compatible version of online courses is to be introduced.
6. NPTEL-Industry Association (NIA) Program is started with 19 Industries.

The session then continued with question answer round

Question	Answer
Do NPTEL consist of MBA courses also?	Yes management course are also available in NPTEL
How faculty can get involved in creating online courses for NPTEL?	Faculty can send a request to NPTEL. They will called for a meeting and if approved they can get involved in the online courses.
Is there any virtual lab available for industrial automation?	Yes
What if examination date coincides with examination date of the institution/university?	Two sessions of examinations are available in NPTEL. Candidate can appear in any one session.
Is there any local chapter in Roorkee?	Yes, for Roorkee local chapter, RCP, Roorkee is the center.

Dr. Nibedita Bisoyi, Coordinator, Roorkee local chapter is then continued with the session. Mam stated with note that, COER is to be opted as a center for a local chapter of NPTEL. Mam continues with explaining the benefits of local chapter, which includes more active participation of faculty and students of a college/ institution to get access to NPTEL online courses. For COER, Dr B M Singh, Dean Academics, is chosen as SPOC (Single Person of Contact). Mam further elaborated the steps for SPOC registration. All candidates under local chapter are then required to enroll under a mentor and then they can get



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enrolled for the online certification course. The criteria to become active local chapter are Criteria:

1. at least 25 candidates PRESENT for the next exams + have toppers and/or gold medalists
2. at least 25 candidates PRESENT for the next exams.
3. less than 25 total candidates present, but has toppers and/or gold medalists

At the end of the program, **Mr. BhupalArya**, Assistant Professor, COER, expressed gratitude to all participants and delivered vote of thanks. The session concluded with a memento presentation for the group photograph and lunch break



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REPORT ON

One day workshop on NBA OUTCOME BASED EDUCATION

Organized
At COER

Date: Aug 17-18, 2018

Venue: CE-105

Number of participants: 45(Faculty Members)

Speakers

Dr. Sanjeev Sofat,

Professor (PEC University)

Dr. Simi S.L

(NITTTR Chandigarh)

- The workshop was started at 10:30 AM with the arrival of Dr. Anita Rawat, Registrar Uttarakhand Technical University, Dehradun and Coordinator TEQIP-III.
- Dr. S.B. Deosarkar, Professor, Dr. Sanjeev Sofat, Professor, PEC University and Dr. G.L. Pahuja, Professor, NIT Kurukshetra were there in the workshop as our guests and speakers.
- Maj. Gen. (Dr) Om Prakash Soni, Director General COER welcomes the guests and then inaugurates the workshop by delivering his address. Dr. Anita Rawat addresses the audience and told us about TEQIP as an initiative taken by the university.
- After tea break, at 11:30 AM session 1 started and in this session our speaker Prof. Sanjeev Sofat delivered his lecture on why NBA is important, why it is required and what comes under NBA.
- After lunch break, at 2:30 PM session 2 started and in this session Dr. S.B. Deosarkar continues with NBA accreditation, its rules to apply



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for accreditation. He told us when an institute can apply for it and also why it is important.

- At 4:00PM our third speaker delivers his lecture with some more points on NBA accreditation.
- On day 2 Dr. Shimicontinues with NBA accreditation, its rules to apply for accreditation. she told us when an institute can apply for it and also why it is important.



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REPORT ON

Five day workshop on IBM

Cloud Computing/Blue Mix

Jointly organized by IBM and COER

At COER

Date: Jan 3-7, 2017

Venue: IBM Lab, COER, Roorkee

Speakers:

Mr. Mani IBM Noida .

Coordinator, COER: Dr. B M Singh

College of Engineering Roorkee organized a Workshop on “Cloud Computing” during 3RD to 7TH January 2017. In this workshop experts were called to discuss concept of cloud computing and services provided by cloud computing. The architecture of cloud computing were discussed by the experts.

Topics that were covered in this workshop:

- What Is Cloud computing?
- Need of Cloud computing.
- Uses of Cloud computing.
- Structure of Cloud computing

- **Objective:**



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- Expand the knowledge about Cloud computing.
 - To understand the Architecture of Cloud computing.
 - To understand all Services provided by cloud computing (IaaS, PaaS, SaaS, etc.)
 - **Outcome:**
 - Students were aware about Cloud Computing.
 - Students get knowledge about Cloud Infrastructure and its Services.
- Students get idea about how Cloud computing



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REPORT ON

INDUSTRIAL FIELD VISIT

TO

FRANCONNECT, NOIDA

CONDUCTED BY:DEPARTMENT OF CSE & IT

Date: Wednesday, August 22, 2018

Venue:Franconnect, Noida

Number of participants 40

Faculty Coordinators: 1. Ravi Poswal

2. Pratibhachaubey

Company Profile

In 2000, FranConnect launched its journey to provide a comprehensive software to franchisors to help them effectively manage their business through the entire franchise lifecycle: develop, open, engage, and market, complete with a detailed view on performance at each stage. Information flows freely from stage to stage, and you can see a detailed view of performance at each stage so you can make better business decisions. Team consists of Certified Franchise Executives (CFE). More than 600 brands and 110,000 franchisees rely on FranConnect, which is why they are the #1 company in franchising software. Franconnect cater to franchisees of all sizes, from well-established franchises such as 7-Eleven and ServiceMaster, to emerging franchises such as Johnny's Steakhouse and College Hunks Hauling Junk.



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Highlights of Visit

1. Seminar on company profile.
2. Interaction with college's Alumni working at FRANCONNECT.
3. Seminar on company's recruitment policy.
4. A brief session on importance of technology for a programmer.
5. How to tackle HR round.
6. Importance of Curriculum-vitae, its contents and mistakes often made by students.
7. Answer of student queries.
8. Discussion on career building with FRANCONNECT.
9. Interaction with the design, development, testing and deployment team.
10. Visit all the departments of the company.
11. Student's feedback on what they learned from the interaction.



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REPORT ON
INDUSTRIAL FIELD VISIT
TO
INFOSYS, CHANDIGARH
CONDUCTED BY: DEPARTMENT OF CSE & IT

Date: Friday, August 24, 2018

Venue: Infosys Chandigarh

Number of participants 80

Faculty Coordinators: - 1. Mr. Anurag Singh

2. Ms. IshaBhardwaj

3. Mr. Bheem Singh Bohra

4. Ms. Neelima Patel

Company Profile:

Infosys is a global leader in next-generation digital services and consulting. They enable clients in 45 countries to navigate their digital transformation. With over three decades of experience in managing the systems and workings of global enterprises, they expertly steer their clients through their digital journey. They have done it by enabling the enterprise with an AI-powered core that helps prioritize the execution of change. They have empowered the business with agile digital at scale to deliver unprecedented levels of performance and customer delight. Their always-on learning agenda drives their continuous improvement through building and transferring digital skills, expertise, and ideas to its innovative ecosystem.



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Activities done at Infosys:

1. Visited the workspace and given brief introduction about it.
2. Seminar and Discussion with Mr. Prabhakar Mishra (Education & Training Department)
 - a. *Artificial Intelligence, Machine Learning and Deep Learning*
They discussed about the umbrella of AI and Neural networks and how machine learning and deep learning are shaping the current technological market.
 - b. *Progressive Web Apps, Frameworks and Agile Development*
He also briefed students about native apps and PWA's and their difference. Students were told to work with frameworks of respective languages as they learn any programming language. He also informed students about devops and agile development methodology.
 - c. *IOT and Blockchain*
Students were informed about how embedded systems and IOT are impacting our day to day life and how everything around us is digitizing. Though they didn't discuss it in deep, they told students about the projects being conducted on IOT.
 - d. He also gave brief introduction about work conditions, salary package to beginners, training and the services being offered. There was also a small question answer session with students where students raised some queries regarding the upcoming technologies.
3. Students were excited and eager to know more about the company work ethics. We met some of the alumni also. Later on we were given the tour of the Infosys campus.

Photograph:-



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REPORT ON

INDUSTRIAL FIELD VISIT

TO

ONGC, DEHRADUN

CONDUCTED BY:DEPARTMENT OF CSE & IT

Date: Wednesday, October 10, 2018

Venue: ONGC, Dehradun

Number of participants 31(Students)

Faculty Coordinators:-1. Anuragsingh

2. Aishwaryakalra

Company Profile:

Oil and Natural Gas Corporation (ONGC) is an Indian multinational oil and gas company earlier headquartered in Dehradun, Uttarakhand, India. As a Corporation, its registered office is now at DeendayalUrjaBhavan, VasantKunj, and New Delhi 110070 India. It is a Public Sector Undertaking (PSU) of the Government of India, under the administrative control of the Ministry of Petroleum and Natural Gas. It is India's largest oil and gas exploration and production company. It produces around 70% of India's crude oil (equivalent to around 30% of the country's total demand) and around 62% of its natural gas.

On 31 March 2013, its market capitalization was INR 57.2 trillion (US\$billion), making it India's first largest publicly traded company. In a government survey for fiscal year 2016-17, it was ranked as the largest profit making PSU in India. It is ranked 11th among the Top 250 Global Energy Companies by Platts.



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ONGC was founded on 14 August 1956 by Government of India, which currently holds a 68.94% equity stake. It is involved in exploring for and exploiting hydrocarbons in 26 sedimentary basins of India, and owns and operates over 11,000 kilometers of pipelines in the country. Its international subsidiary ONGC Videsh currently has projects in 17 countries. ONGC has discovered 6 of the 7 commercially producing Indian Basins, in the last 50 years, adding over 7.1 billion tones of In-place Oil & Gas volume of hydrocarbons in Indian basins. Against a global decline of production from matured fields, ONGC has maintained production from its brown fields like Mumbai High, with the help of aggressive investments in various IOR (Improved Oil Recovery) and EOR (Enhanced Oil Recovery) schemes. ONGC has many matured fields with a current recovery factor of 25–33%.[4] Its Reserve Replacement Ratio for between 2005 and 2013 has been more than one.[4] During FY 2012–13, ONGC had to share the highest ever under-recovery of INR 8993.78 billion (an increase of INR 567.89 million over the previous financial year) towards the under-recoveries of Oil Marketing Companies (IOC, BPCL and HPCL).[4] On 1 November 2017, the Union Cabinet approved ONGC for acquiring majority 51.11% stake in HPCL (Hindustan Petroleum Corporation Limited). On Jan 30th 2018, Oil & Natural Gas Corporation acquired the entire 51.11% stake of Hindustan Petroleum Corporation.

Activities done at ONGC:

1. Visited the workspace and given brief introduction about it.
2. Firstly we visited to GIOPIC centre there students interact with the Mr. Gaurav (Senior System Engineer) he discussed about the data analytics, data processing and network. He educated the students about the GIOPIC. Then he demonstrates how they execute data, how they process and how they transfer. And at last he told us about the super computer (Aaryabhata-2). He also gave brief introduction about training and the services being offered. There was also a small question answer session with students where students raised some queries regarding the ONGC.
3. Then we move to Institute of Drilling Technology (IDT) where they find out about drilling and its simulator. Firstly Mr. V. Rao gave the seminar on about ONGC, and then he delivered the lecture on Drilling technologies. After this we went for high tea. Then we move to drilling simulator there Mr. Vikas who gave the demo of Drilling Simulator to every student and what are the latest technologies are coming in this.



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4. After this we left the ONGC and reached the college at 8:30 PM



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REPORT ON
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TO
ONGC, DEHRADUN
CONDUCTED BY:DEPARTMENT OF CSE & IT

Date: Monday, April 08, 2019

Venue: ONGC, Dehradun

Number of participants 51

Faculty Coordinators:-1. MayankChauhan

2. Aishwaryakalra

3. Bhim Singh Bohara

4. ManishaArora

Company Profile:

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Activities done at ONGC:

1. Visited GeodataProcessing and interpretation Center (GEOPIC) in ONGC.
2. Mr. Digvijay and his team interacted with the students in 2 batches regarding following:-
 - a. Aryabhatta-2 and High Performance computing clusters(HPCC)
They discussed about the supercomputer and High performance computing clusters. They also informed students about how much speed, processing power and graphic processors are used to analyze the geological data.
 - b. How Infiniband is used and the analysis of geological data

Students were briefed about their intranet network and how infiniband is used to handle high performance computing as it provides high



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throughput, how sensitive data is brought on magnetic tapes and how huge tape libraries are maintained.

- c. How huge the workstations are and visit to KDMIPE Students visited KeshavDevMajvi Institute of Petroleum Exploration. Where Mr. GK Rajan and his team discussed about the network, different software's that are used for analysis and showed various workstations and its working.
3. Students were excited to know more about the company work ethics, internship and how one get placed in the company.
4. After this we left the ONGC and reached the college at 8:30 PM

