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# ECHELON INSTITUTE OF TECHNOLOGY

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## **NEWS LETTER APRIL 2018**

### **CIVIL ENGINEERING DEPARTMENT**

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## FROM THE DESK OF EDITOR IN CHIEF



It gives me immense pleasure to present the latest issue of Buoyant. The period has been packed with variety of activities in the hectic and tight academic schedule. This edition of the news letter summarizes the achievements and highlights of the semester. I would like to take this opportunity to present the readers with the glimpses of the week and other activities of the Civil Engineering Department. In this quest, I would like to keep you up –to-date with the happenings of the department. And hence, present you with this quarterly newsletter. You can know the details as you go through the news letter. Department was strengthened with two new faculties including me through stringent selection process. Every effort was made to avoid the boredom of class room lectures and ample opportunities were provided for personality development of the students and enhancement of their skills as per their choice/ area of interest through hobby clubs and industrial visits. This approach helps maintaining a very healthy and conducive atmosphere of learning, keeping the students in an excited state eager to grasp knowledge at all times. The department is scaling new heights with such positive approach.

Mr. Chitranjan Kumar

Senior Lecturer

Department of Civil Engineering

EIT Faridabad

## ENDEAVOUR BY HOD



The main motto of our department is to provide quality education. The process of learning is extremely important in life. What you learn, how you learn and where you learn play a crucial role in developing ones intellectual capability, besides career. I am proud to see that the students and faculty of our department have put in appreciable effort into creating this newsletter. This newsletter highlights the academic and non academic activities of both faculty and students of the Department of Civil Engineering.

I congratulate the editorial team for their brilliant and original efforts. I wish all the students and faculty a great academic career

Ms.Akriti Gupta

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## ABOUT THE DEPARTMENT

Civil Engineering is the application of physical and scientific principles, and its history is intricately linked to advances in understanding of physics and mathematics throughout history. Because civil engineering is a wide ranging profession, including several separate specialized sub-disciplines, its history is linked to knowledge of structures, materials science, geography, geology, soils, hydrology, environment, mechanics and other fields. The course cover basic sciences, Mathematics, Engineering graphics, computing techniques along with the fundamental Engineering principles of construction materials, Building Drawing and Laboratory classes in testing of materials help to understand Civil Engineering in a practical way. Software packages like AutoCAD, STAAD Pro allows our students to expand their skills and provide an adequate platform to perform analysis, design and drawing for a wide range of civil Engineering buildings and other heavy structures viz. Roads, bridges, flyovers, dams, etc.

Every semester students will be taken for Industrial Visits to various Construction sites and water Treatment Plant, Atomic Power stations, Dams and places of interest to impart Practical Knowledge. In addition, the students have to undergo practical Training for 2- 3 weeks in any Construction industry to gain practical experience and technical skills. The students are also encouraged to give seminars on current areas of research. To acquire high degree of Engineering skills and to translate brilliant ideas into a working reality.

## SURVEY CAMP- CIVIL ENGINEERING



The Department of Civil Engineering organized a two days survey camp for the 6<sup>th</sup> Semester students of Civil Engineering, 17-18 Jan 2018. The camp held at an open area of 20 acres belonging to Leisur Valley, near the Manav Rachana Campus . Over 16 students took part in learning different surveying techniques through various activities under the guidance of Mr Chitranjan kumar, Assistant Professor, Department of Civil Engineering and the Laboratory Assistants of the Department.



The participants went through a hands-on experience in using theodolite, cross staff, leveling staff, tapes, plane table and total station which they had learned in theory. The survey camp aimed at equipping the participants with necessary set of skills that will enable them to follow effectively field procedures required for mapping/alignment of a survey project.

During this camp, the participants were also required to compile data captured throughout the camp for further interpretation and analysis, and to later prepare drawings and reports based on the same.

## VISIT TO NCCB



Technical visit (**NCCB**) of students of B.Tech. 4<sup>th</sup> and 6<sup>th</sup> semester civil engineering department on 16/02/2018.

National Council for Cement and Building Materials (NCB), then Cement Research Institute of India (CRI) was founded on 24th December 1962 with the objective to promote research and scientific work connected with cement and building materials trade and industry.

Today, NCB is the premier body under the administrative control of Ministry of Commerce and Industry, Govt. of India, for technology development, transfer, continuing education and industrial services for cement and construction industries. Geographically, NCB has its corporate centre and main laboratories located at Ballabgarh (Near New Delhi); another well established regional centre at Hyderabad and a Centre at Ahmedabad (Gujarat).

NCB's areas of work span over the entire spectrum of cement manufacturing and usage – starting with geological exploration of raw materials through the processes, the machinery, the manufacturing aspects, energy and environmental considerations to the final utilization of materials in actual construction, condition monitoring & rehabilitation of buildings and structures.

## WELCOMING NEW MEMBERS



We, on behalf of the Civil Engineering Department of our institute, whole- heartedly welcome Mr. Prof. R. k. Singh who is now a part of the Echelon family. He has the rich experience of around 18 years in the field of teaching and 20 years of experience in design and construction of various type of structure. He has done his M.Tech in Structural Engineering from IIT MUMBAI in the year 1987. Mr.R.K.Singh has worked on various projects like Multi story building,Elevated water Tank,School and office accommodation to name a few. He was also involved in construction of major roads in hills under Boarder Road Organisation . He is highly energetic and futuristic in his approach as he knows how to confidently undertake independent analysis of complex field situations. He has done training on Design of Highway Bridge and cost Effective Construction Materials. He has been involved in various conferences and seminars and has presented research papers in various national and international conferences.

## HOLI MILAN SAMAHROH

Holi Milan Samaroh was celebrated in Echelon Institute of Technology on March 2018. All the “old” faces means students of 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year welcomed the new faces with open coloured hands, open minds and above all, open hearts. Fresher students took part in this event with great zeal and zest. People throw colours and get their targets completely coloured up, everyone looks like a canvas of colours. Groups sing and dance, some playing drums and dholak. After each stop of fun and play with colours, people offer gujiya, mathri, malpuas and other traditional delicacies. Juniors expressed their thoughts that responsibility and joy of learning is now in their hands. First year students marked a good beginning in this institution by ensuring us that they will move in direction of success and also learn to serve Humanity all the time they go in and go out of this college. The activities which took place in this event, was mainly to make them interact with their seniors and making them comfortable in this campus. The evening became more energetic when the students participated in solo and group dances like bhangra and hip-hops which filled the whole environment with fun and frolics. Holi is a festival of new starts, which ritually aims to generate harmony in the institute.



## DEEPAWALI DAY CELEBRATION

Deepawali Day was celebrated in Echelon Institute of Technology on 18<sup>th</sup> October 2017. All the Students, Faculty and staff members were gathered in the institute's seminar hall to celebrate the festival. Students make very beautiful rangoli on this occasion. Principal Sir wished all the students, faculty and staff members on the day and distributes the gifts and sweets. After this all enjoys the fireworks.

