



## MESSAGE FROM DIRECTOR

Dear Students!

The real purpose of education is to create better human beings. Aspiring to become better, must be greatest - motto of a student. It is equally important for the teachers to put their tireless efforts in right direction. To make a child intelligent is comparatively easy but to make him conscious about human values and moral ethics is rather difficult. Originality and a feeling of one's own dignity are achieved only through hard work.



Hard work has no substitute. Only those who work hard, succeed. A student can never come out with flying colors unless he or she has really worked hard throughout the year. Burning midnight-oil paves the path of success. It never passes into nothingness. In my point of view "If a person loves what he is doing, he will be successful."

Be a person not a machine. Don't accumulate degrees rather inculcate ethics and values.

## MESSAGE FROM EDITORIAL TEAM

It is my pleasure to write the Editorial column. Most of the schools and colleges have their own magazines and most of the students have their selective group of friends with whom they often share information and chat in different formats. Same as the aim of this newsletter is to share the achievements of our Institutions. SARAANSH is always known for its ellipsis.

I want to thank my Editorial Board for their tireless contributions and efforts to make SARAANSH a reality. Thanks also to our reviewers. The continuing success of this newsletter should give us a sense of pride and achievement. Please provide information for this newsletter in a timely manner to ensure its great success and for exchanging the information.  
Best Regards

## MESSAGE FROM DEAN BASIC SCIENCES & HUMANITIES

Dear students!

There should be a synergy between today's requirement and tomorrow's expectation in this highly competitive global market. At COER, we have a staff of highly motivated and dedicated teachers that serve as role models for the students. Our dedicated team of teachers has created a bright and exciting environment via individual attention and personalised effort. Students are groomed in such a way that, in addition to excelling academically, they will be able to participate in a wide range of co-curricular and extracurricular activities.

The infrastructure of large classrooms, labs, and libraries not only facilitates teaching methodology, but also provides a comprehensive approach to the full development of the kid. They gain the spirit to strive high in this competitive environment and become responsible citizens of a futuristic nation thanks to the playground and sports facilities.

I guarantee that any child admitted to the institute will find the personnel and general environment to be warm, kind, and caring, as well as a setting that fosters collaboration and trust.

## Collaboration with Russian University

As a major initiative, an MoU for academic collaboration was signed between COER and Kuban State Agrarian University, Russia on May 27, 2019. A delegation of COER led by Shri Shriyance Jain, M.D., Texplas Group of Industries and Trustee COER visited Russia for this purpose.



## THE PARENTS DAY

The Parents Day-I was organized in COER campus on Saturday, September 28, 2019 between 9:30 am to 12:30 pm. Faculty Advisors were requested to call the parents of the students of their groups. All related problems with students and their academic progress were discussed on the parents day.



"Anyone who has never made a mistake has never tried anything new." - Albert Einstein

## 14<sup>th</sup> Convocation at College of Engineering Roorkee COER

The most prestigious event of College of Engineering, Roorkee (COER), its fourteenth Convocation was commemorated with great enthusiasm on 09 April, 2019. Smt. Baby Rani Maurya, Hon'ble Governor of Uttarakhand was the chief guest and Dr. Anita Rawat, Registrar, UTU, Dehradun, Uttarakhand was an honored guest.

Mr. J. C. Jain He welcomed the guests and offered his immense gratitude towards them to have spared time for the function out of their busy schedules.

A speech on the trends and progresses of COER was delivered by the Hon'ble Director General Dr. S P Gupta. In his annual report; Dr. Gupta said that the college has completed 21 years of its glory.

In this convocation, a total of 721 degrees were awarded to the students of CS, IT, EN, ET, AEI, ME, CE, MCA and MBA. Many students received as per COER convention, Seth Roshan Lal Jain Trophy was awarded to the toppers on the basis of their merit

The Hon'ble Registrar, UTU, Dehradun congratulated the degree recipients and their parents on their achievements. In her address, she suggested the students that they must continuously strive to find new ideas and creative ways of handling various situations.

Smt. Baby Rani Maurya, Governor of Uttarakhand, congratulated the toppers for bringing glory to their parents and teachers. In her address she said though the medium of education in the modern world may have changed, but the importance has not diminished but has increased even further. Mr. J. C. Jain Chairman COER and Mrs. Sunita Jain Vice Chairperson COER, presented mementoes, as tokens of reverence to the chief guest and the honored guest. The function reached its formal closing after the vote of thanks offered by Mr. Subhash Jain, secretary, COER.



## Environment Day Celebration

On 5 June 2019, College of Engineering Roorkee celebrated Environment Day with great zeal and enthusiasm. Students and teachers gathered together to raise awareness about environment. They planted many plants of many varieties. The celebration was a great success.

## Teachers' Day Celebration

5th September, 2019 College of Engineering, Roorkee celebrated "Teacher's Day". The program started at 3 pm with the Tilak ceremony. Teachers performed various activities. Director General of College of Engineering, Roorkee appreciated to the faculty members and he also told the contribution of every faculty members.

## Independence Day celebration

On 15th August, 2019 College of Engineering Roorkee celebrated 73rd Independence Day in the college Campus. The students and staff members gathered in the college campus for flag hoisting ceremony. Soon after the national anthem Chairman Shri J.C.Jain ji addressed the gathering. About 500 participants attended. Later students gave a patriotic Song which was followed by vote of thanks and distribution of sweets.

## VISIT OF HON'BLE VICE CHANCELLOR

The Hon'ble Vice Chancellor of Uttarakhand Technical University Professor Narendra S. Chaudhary visited COER on July 8, 2019 as Chief Guest for inaugurating a 6 - days training program on "Advanced Industrial Automation" conducted under the aegis of TEQIP, Uttarakhand Technical University.



EVENTS	DATES	WINNERS
KAVI SAMMELAN	Round 1: 18th September, 2019.	Winner- Sankalp Agarwal (CS, 4th Year)
	Round 2: 19th September, 2019.	1st Runner up- Pushkal Jain (IT, 1st Year) 2nd Runner up- Parijat Tripathi (ET, 4th Year)
ENGLISH APTITUDE TEST (EAT)	11TH October, 2019.	1ST Position- Prateek Gupta (IT, 1st Year) 2ND Position- Tushar Srivastava (CS, 1st Year) 3rd Position- Roshan Rawat (CS, 1st Year)
Picture Perception Test (PIXT)	11TH October, 2019	1ST Position- Pragya Chhabra (CS, 1st Year) 2ND Position- Mayat Singh (IT, 3rd Year) 3rd Position- Krishna Bhakuni (CS, 1st Year)
Debate Competition	17th October, 2019	1st Position: Janme Jay (ME, 4th year) 2nd Position: Ishan (CS, 1st year) 3rd Position: Prayag Raj (IT, 1st year)
Kahani Likho Pratiyogita	17th October, 2019	1st Position: Richa Sharma (CS, 2nd year) 2nd Position: Arnav Verma (CS 1st, year) 3rd Position: Pushkal Jain (IT, 1st year)

## TRUE WORDS HOW TO SUCCEED IN LIFE?

Talk - Softly;  
Eat - Sensibly;  
Breathe - Deeply;  
Sleep - Sufficiently;  
Dress - Smartly;  
Act - Fearlessly;  
Work - Patiently;  
Think - Creatively;  
Behave - Decently;  
Earn - Honestly;  
Save - Regularly;  
Spend - Intelligently.

## Engineer's Day

On 17<sup>th</sup> September, 2019 College of Engineering Roorkee celebrated Engineer's day in the campus. On the same day all the faculty and staff members also celebrated birthday of the Chairman of COER Er. Shri J.C. Jain ji. On this auspicious day he elaborated that the role of an engineer does not end at achieving the title, rather goes much beyond for the larger good of the society. It is only through Engineers that all scientific advancements and inventions reach the masses, while as an Entrepreneur one must possess the knack of identifying and retaining talent, therefore a big responsibility lay on the shoulders of these undergraduate budding engineers at COER as future entrepreneurs.

## Expressions "2019"

"Expressions" is an Inter College Annual fest conducted by The Linguistic Committee with the motive of enhancement of communication skills. The Fest gives each student a platform to develop confidence, gain knowledge and stimulate thinking.



It also gives a golden opportunity of public speaking thus eliminating stage fear and improving speaking skills.

The Fest was organized from 13 -15 February, 2019. Various Formal and Informal Events were conducted in the fest such as Crossfire, Big Fight, Adzap, Sportech, Spellathon, Expressions', Moot Court Session, Imagram, Senate and many more.

## DEEPSANDHYA

On 26 October, 2019 College of Engineering Roorkee celebrated "DEEPSANDHYA". Whole campus was decorated by beautiful lights and candles. Students gave the mesmerizing performance on this occasion. All members of COER enjoyed the program because it illuminated everyone's heart with joy. Students of B.tech presented a skit with a lot of enthusiasm wherein the students set the mood of the festivity by invoking the blessings of Lord Ganesh, Goddess Laxmi and Lord Ram by presenting a mesmerizing song. An inspiring skit was also dramatized to apprise the students about the hazardous effects of bursting crackers.

"You cannot change your future, but you can change your habits, and surely your habits will change your future."

-A.P.J. Abdul Kalam



**YOUR MIND  
IS YOUR GREATEST ASSET. SO BE  
VERY CAREFUL OF WHAT YOU PUT  
IN YOUR MIND**

## Monthly Activities

- Online Training on STAAD Pro Software for Civil Engineering Students of COER was organized by Bentley Systems from 24 April to 15 May 2019.
- An Industrial Visit to ONGC, Dehradun was organized by Oil & Natural Gas Corporation, Dehradun, Mr. Ashish Garg, General Manager, on 12 May 2019.
- Electrical department organized a one day workshop on "Internet of Things (IoT)", on 21 August 2019.
- 15 October, 2019 English Department under the aegis of Basic Science and Humanities organized "Staff Development Program" to enhance the knowledge of the language for Technical Staff.
- Workshop on "Solution Of Smart Grid Problems Using Software" was organized by EN department, on 19 October 2019.
- Workshop on "Python & Its Engineering Application" was organized by EN department from 20-22 October 2019.
- Dr Rashmi Gupta, HOD of English Department delivered a lecture on "Public Speaking: How to remove Stage Fright" to the students of B.Sc. Dr Rashmi gave the important tips to the students for public speaking.
- English Department under the aegis of Basic Science and Humanities organized one day Workshop for the students of UTU affiliated institutes under TEQIP-III on 15th November, 2019. Prof.(Dr.) Nagendra Kumar, HOD, Department of Humanities of Social Sciences, I.I.T. Roorkee and Prof.(Dr.) Binod Mishra Department of Humanities of Social Sciences, I.I.T. Roorkee were the resource persons of the workshop.
- Workshop on "Solar Lamp" organized by Mr. Varun, Faculty ME department on 1st October, 2019.
- Workshop on "COER Internal Smart India Hackathon 2020 Coding Competition" organized by Mr. Dhaneshwer, Faculty CS department on 24th December, 2019.

## AWARD AND ACHIEVEMENT

Dr Rashmi Gupta received "Inspirational Women award for best performance in Education".

## Guest Lectures

- Guest lecture was organised by Mechanical Department on Nano technology in Cement in association with Indian Concrete Institute and the Institution of Engineers (India), IITR. The lecture was delivered by Dr. L.P. Singh, Scientist, CSIR-CBRI, Roorkee at auditorium on 29 August 2019.
- EN department organized Guest Lecture by Dr. Ravi Kant Saini Assistant professor IIT, Jammu on "Cyber security", on 03 October 2019.
- Guest Lecture by Dr. Avinash Chandra Joshi Director(HR), UJVNL, "Entrepreneurship & Innovation As Career Opportunity" on November 05, 2019.

"When you are doing any work, do not think of anything beyond. Do it as worship. As the highest worship and devote your whole life to it for the time being." - Swami Vivekananda

## COER NPTEL Chapter Opened

A major facility of online certification courses was inaugurated by the Hon'ble Chairman in Central Library on September 05, 2019. More than 1400 online courses of NPTEL are now available at COER.

National Program On Technology  
Enhanced Learning (NPTEL)  
COER NPTEL Chapter

Inaugurated By  
Hon'ble Dr. J.C. Jain, Chairman, COER  
September 05, 2019

## ORIENTATION AND INDUCTION PROGRAM FOR NEW STUDENTS

On the opening of the academic session 2019-20, an Orientation Program was organised on August 6, 2019 to introduce the new students to familiarize them with essentials of academics, examination, hostel living, code of conduct, library, Centers of Excellence, etc. and an Induction Program on August 7-23, 2019 to familiarize them with facilities in college, learning through invited lectures from eminent persons and Alumni, engaging them in creative activities of art and culture, training them on physical fitness etc.

## 7 IMPORTANT FACTS ABOUT IOT TO ENHANCE YOUR KNOWLEDGE

IoT or Internet of Things is a smart technology of the 21st century. IoT is basically an ecosystem of interconnected devices or gadgets embedded with electronics that are capable of receiving, collecting, and transferring data over a network without any external command. IoT transforms the routine, normal devices into intelligent devices. The majority of people today are using this technology in their daily lives, knowingly or unknowingly. Here are seven important facts about IoT to enhance your knowledge about this technology.

### FACT 1

Morgan Stanley via its intelligence estimated that there will be more than 75 billion active IoT devices by the end of 2020, i.e. 7 devices per person.

### FACT 2

GE has predicted that investments in the industrial IoT market will reach a whopping \$60 trillion in the next 10 years.

### FACT 3

As per GSS insight, the wearable market, which include devices such as fitness trackers, smartwatches, and so, could become a \$25 billion market by 2019.

### FACT 4

Connected or smart homes that use the IoT technology will become quite prevalent. The global smart home market might touch \$490 billion by the end of 2019.

### FACT 5

About 94% businesses that used IoT in some way have registered a higher ROI.

### FACT 6

As per an estimate, by 2020, at least 250 million vehicles around the globe will be IoT enabled for better in various services and automated driving.

### FACT 7

According to the industry experts, the development in the IoT field will generate millions of job opportunities in the IoT field in the years to come.

## Research Paper Publication by Teachers/Students

- Rashmi Gupta, (2019), "Use of Innovative Methods and Practices in ELT," IJELLS, International Journal of English: Literature, Language & Skills, Volume 7 Issue 4, January 2019, ISSN 2278-0742, <http://www.ijells.com/volume-7-issue-4-january-2019/>
- Rashmi Gupta, (2019), "Effective Business Communication Skills for Professional Excellence," IJELH, International Journal of English Language, Literature and Humanities, UGC approved journal list (Serial No.43979), Indexed with GOOGLE Scholar, Academia and Crossref, ISSN: 2321-7065, Vol. 7 No. 2 (2019)
- Rashmi Gupta, Book Chapter published "COVID-19, the Gateway for Digital Learning" in "COVID-19: Pedagogical Issues and Challenges-An Analytical Study", 2020, Creative Books, New Delhi in Pipeline.
- Ena Jain, Dr. D.V. Gupta, Dr. R.K. Naik "A Survey on Routing Protocols Exclusively for IoT", International Journal of Research in Electronics &amp; Computer Engineering, a unit of I2OR, Vol.7, Issue 2, April-June 2019, pp. 1949-1952,ISSN:2393-9028 (print),ISSN 2348-2281(online)
- Renu Popli, Vikas Juneja, Kanwal Garg, D.V. Gupta "Fuzzy Based Trust Evaluation Model for Enhancing Security in MANETs" International Journal of Engineering and Advanced Technology (IJEAT), Volume 8, Issue 5, June 2019, pp. 506-510, ISSN: 2249-8958 (online)
- Tiwari, R.K., Gupta, S., (2019), Review: Effects of Lime Sludge and Rice Husk Ash on Engineering Properties of Soil. Indian conference on Geotechnical and Geo-Environmental Engineering (ICGGE-2019) MNNIT, Allahabad, India
- Gupta D., Prof Gaur S., (2019) Carbon and Bio-Fuel Foot Printing of Global Production of Bio-Fuels. Biomass, Biopolymer-based Composite Materials and Bioenergy' Elsevier. ISBN: 978-0-08-102427-0.
- Gupta D., Giri M., Dangwal M., Sharma S., Kaushik S., Chauhan R., Kotnala S., (2019) Properties of Clay Soil after Stabilization with Lime. TEJAS The Engineering Journal of Application & Scopes, 4(2), P-12-18. ISSN No. 2456-0472.
- Kaur M., Singh, M., Vijay, S. (2019). A Hybrid Approach of underwater Image Processing for Species Classification. Doctoral Colloquium in Management Economics & Information Technology, UPES Dehradun.
- Gupta D., Verma A., Bisht I., Rana M., Anchal, Akansha, (2019). Influence of Waste Glass on Properties of Concrete. TEJAS The Engineering Journal of Application & Scopes, 4(2), P-19-24. ISSN No. 2456-0472.
- Sharma, K.D., Jain, S. Overview of Municipal Solid Waste Generation, Composition, and Management in India, Journal of Environmental Engineering (United States), 145(3),04018143, April 2019 (Impact Factor:1.657)
- Kumar, B., Patil, A.K., Jain, S., Kumar, M. Effect of V cut in perforated twisted tape insert on heat transfer and fluid flow behavior of tube flow: An experimental study. Experimental Heat Transfer, 32(6), pp. 524-544, 2019 (Impact Factor: 2.000)
- Pooja Sharma, D.V. Gupta, Surender Jangra "Ecg Signal Based Arrhythmia Detection System Using Optimized Hybrid Classifier", International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume 8, Issue 9, July 2019, pp.2207-2212, ISSN:2278-3075(online)
- Chamola, R., Khan, M.F., Raj, A., Verma Response surface methodology based optimization of in situ transesterification of dry algae with methanol, H<sub>2</sub>SO<sub>4</sub> and NaOH, Fuel, 239, pp.511-520, 2019 (Impact factor:5.128)
- Kumar, B., Patil, A.K., Jain, S., Kumar, M. Effects of Double V Cuts in Perforated Twisted Tape Insert: An Experimental Study, Heat Transfer Engineering, 2019. (Impact Factor:1.703)
- Gupta D., Verma A., Bisht I., Rana M., Anchal, Akansha, (2019). Influence of Waste Glass on Properties of Concrete. TEJAS The Engineering Journal of Application & Scopes, 4(2), P-19-24. ISSN No. 2456-0472.
- Goyal A. Mridula, Aeron A. (2019). Study of Traffic Congestion In Distinct Perspective. Doctoral Colloquium in "Management Economics & Information Technology", UPES Dehradun.
- Kaur M., Singh, M., Vijay, S. (2019). A Hybrid Approach of underwater Image Processing for Species Classification. Doctoral Colloquium in Management Economics & Information Technology, UPES Dehradun.
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## Conference/Seminar/Workshop/ Attended and Paper presentation/Webinar

- A workshop on "Advanced Industrial Automation Technologies" was organised by mechanical department from 8 to 13 July, 2019.
- Conference Prabha – An initiative, National HR conclave was attended by Dr. Nitesh Dutta on 18 August 2019 at UTU, Dehradun.
- International Conference on "Artificial Intelligence and Its Applications" was organized by on 20-21 December, 2019.

Take up one idea. Make that one idea your life – think of it, dream of it, live on that idea. Let the brain, muscles, nerves, every part of your body, be full of that idea, and just leave every other idea alone. This is the way to success.

Swami Vivekananda

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Design & Layout: Mr. Rakesh Negi



In House Publication