



Saraansh



From The Desk of Editors

Dear Readers

Peeling off the rushly layers of cold winter the repeated rhythmic strains of the Vasanti steps have entered COER campus silently. The guru mantra, the "Saraansh has clasped the wayward minds of budding future of our nation with the captivating grace. All thoughts, visions, feelings and senses tend to touch the sublimation. Aren't we ready to take tune from the winds that blow, take tunes from the Koyal that Coos across the lush green campus?

Just wait! Life is ready once again limn a poem on coyly waiting trees, shrub and creeping plant. The cups of the poetic hearts get filled with divine music overflowing with the vasanti wave. Cheer up!!

MESSAGE FROM DIRECTOR

Dear All!

College of Engineering Roorkee (COER) provides effective mentoring, a fantastic library with a digital knowledge database, a cutting-edge computer lab, and special attention to each student.



We make certain that each student's potential is recognised and that they are prepared to cope with the high degree of performance required in today's challenging corporate environment.

We instil in our pupils the habits of lateral and innovative thinking, reading, research orientation, and decision-making ability, as well as the nurturing and development of physical and mental strength to help them survive and flourish in any situation.

We focus on our students' overall 'Holistic Development' in all aspects, enabling them to acquire the competency to deliver efficient and effective use of knowledge in practical real-life situations, enhancing their performance excellence in the organisations they join and adding value to their existing system from the first day.

Finally, I'd want to end my message with a quote from Swami Vivekananda, who said, "We desire education that forms character, strengthens the mind, expands the intellect, and allows one to stand on one's own two feet."

Message from Registrar

It gives me the pride to welcome you all to one and only prestigious COER Institution of Higher Education, having matchless credentials and distinctions.

We firmly believe that education plays a very significant role in achieving higher standards of living, increasing productivity and supporting economical goals.

With our commitment to holistic development, we strongly believe that our students are "Our Emerging Leaders" who will be pivotal in shaping tomorrow's world and creating positive change and impact.

We believe in each individual's inherent dignity. We believe that educational greatness aids in the development of comprehension, reasoning, and critical thinking abilities. It also aids in the development of a lifelong love of study as well as a sense of moral and ethical behavior.

My best wishes for those who seek to be a part of COER Institution of Higher Education which is on a mission to strive for quality in teaching and learning, research and discovery, outreach and public service.



Republic Day Celebration

वतन हमारा ऐसा कोई ना छोर पाए रिश्ता हमारा ऐसा कोई ना तोड़ पाए
दिल एक है एक जान है हमारी हिन्दुस्तान हमारा है हम शान हैं इसकी ।

"Freedom in the mind, Strength in the words, Pureness in our blood, Pride in our souls, Zeal in our hearts, Let's salute our India on Republic Day".

College of Engineering Roorkee celebrated the auspicious occasion of Republic Day with full enthusiasm and zeal on January 26, 2021. On this day, everyone in COER payed respect and love to the country and the legends who sacrificed their lives and brought this day in the history of India.

The celebration started at 9 AM in front of UETR building. Flag was hoisted by Honorable Chairman, Shri. J. C. Jain at 9:30 AM. The function ended with the sweet distribution. The celebration marked its glory by echoing the salutation 'JAI HIND' which brought unity in voice of all COERians



Workshop Organized @ COER

- Department of Electrical Engineering and IIC: COER organized one day workshop on National Education Policy (with a focus on Innovation and Entrepreneurship) on 23rd January, 2021. Dr Manoj Tripathy Associate Professor Dept. of Electrical Engineering, IIT Roorkee and Dr Mukesh Kumar Associate Professor Dept. of Electrical Engineering, IIT Indore were the distinguished experts of the workshop. All the participants received the E-certificates.
- College of Engineering Roorkee and Institution's Innovation Council jointly organized one week workshop on "Impact of Spirituality and Meditation on Work Performance and Human Health" under the aegis of TEQIP-III UTU Dehradun on 3rd March, 2021. Dr. Deepak Kumar Wellness Advisor Founder of MAHC, Mr.Vivek Pandalia Director Holistic Life Coach ViveBale Corporation Pvt.Ltd., Dr.P.S Kulkarni Heartfulness Trainer and Dr Sushama Viladkar Heartfulness Trainer told various methods "how to be stress free during work". E- Certificates were given to the participants.
- Institution's Innovation Council:COER organized Two week Workshop under the aegis of TEQIP- III on Electrical System Design using ETAP from 13 march 2021, to 22 march, 2021.

Dr Atma Ram Gupta Assistant Professor N.I.T Kuruksheetra, Dr VallemV V S N Murthy Manager (Electrical), Engineers India Limited, Mr Avinash Kumar Arya Technical Resource Manager BrighterWorld Innovation & Technologist Pvt. Ltd. Roorkee, Dr Bidhyanath Assistant professor NIT Raipur, Dr Ashish Kumar Bohre Assistant Professor N.I.T Durgapur, Dr Jitendra Kumar Assistant Professor N.I.T Jamshedpur and Mr. Praveen Sharma Assistant Professor Smart Brains Pvt.Ltd. Noida were the resource persons of the Workshop.

Successful

- S - See your goal
- U - Understand the obstacles
- C - Create a positive mental picture
- C - Clear your mind of self-doubt
- E - Embrace all challenges
- S - Sacrifice free time
- S - Show the world you can do it
- F - Feed your focus
- U - Utilize all opportunities
- L - Learn from all failures.

Celebration @ COER

- ❖ College of Engineering Roorkee celebrated **Science Day** on 28 February, 2021

Shri. T K. Krishnamurthy, former mission Director (Satellite Division ISRO) was the Chief Guest of the program. Shri. T K. Krishnamurthy shared his journey of "Chandrayan 2" as well as he also told

about his new project "Mangalyan". SDNx launched an Experimental Model Rocket designed and developed at SDNx foundation Center. Shri. T K. Krishnamurthy also saw the projects of the students of COER institutions. Miss. Skashi Sharma, Science Communicator and Outreach Officer delivered a special lecture on the topic "Opportunities for Women in Space". Shri Rahul Saraswat ji, Department Organization Minister (Vibhag Sangthan Mantri), Dr. Himanshu Pandit, State Vice President (Pradesh Upadhaksh), Shri. Mohit Chauhan, State Asst. Miinister (Pradesh Sahmantri) and Shri. Rahul Chaudhary, District Coordinator (Jila Sayojak) were present on this important day.



- ❖ **"Women's Day"** was celebrated by Humanities Department under the aegis of Women Empowerment Cell at College of Engineering Roorkee (COER) on 8th March, 2021. Ms. Namami Bansal Joint magistrate, Roorkee, Ms. Shristhi Goswami One day Chief Minister Government of Utrkhand for the year 2021 were the chief guest of the event. Ms Namami Bansal told to the students to "How to stay motivated".



Ms Shristhi Goswami said, "being one day Chief Minister of Utrkhand I took decision in favour of women sanitary". She was also awarded with lifetime COER Library award by COER Management. Shri J.C Jain Chairman, COER was the Guest of Honour. "Poster Making Competition" was also organized on this day. Best of the three posters were awarded by the chief guest.

- ❖ **"Holimahotsav"** was celebrated in College of Engineering Roorkee on 27 March, 2021. This festival was celebrated as it can keep the traditions and the culture of the festival alive. The festival has given lots of enjoyment to college authorities. The event was filled with togetherness and memories as everyone has taken so many photographs.
- ❖ **The International Day of Yoga** has been celebrated on 21 June, 2021 by College of Engineering Roorkee. Dr Deepak Kumar, Doctorate in Naturopathy talked on "Yoga and Wellness". Yoga trainer of COER Medical College of Ayurveda Dr Rajeshwari Vairagi explained the significance of Yoga, she also told some Yoga Aasan to the students. Chairman of COER Institutions of Higher Education, Vice- chancellor of University of Engineering and Technology Roorkee, Dr S.P Gupta, Director of COER Institutions of Higher Education Dr Brijmohan Singh, Dean Academics Dr Pankaj Chaudhary, Dean Humanities Dr D.V Gupta, all the faculties and the students of COER and Patanjali University, Haridwar also took part in this event.

MOOCs BY FACULTY MEMBER

- Himanshu Gupta Completed 6 week course "ML with Python from" on Coursera, Feb. 01, 2021
- Anuradha Singh completed "Programming for Everybody (Getting Started with Python)" from University of Michigan on coursera in February 2021
- Dr Rashmi Gupta Completed "Introduction to Artificial Intelligence (AI)" from IBM on Coursera in June 2021.
- Renu Rani Completed "Introduction to Artificial Intelligence (AI)" from IBM on Coursera in June 2021.

Spic Macay

Speak Mac Committee organized Kie po che event on 26 February, 2020. Students of COER from the different courses took part in this event. Various activities like

Alankar, Pithu phodwere etc were done by the students. Mrs Anuradha Singh declared the result of the event and distributed the prize to the winners.



Disha

Disha, The Technical Committee organised Google-Doodle Event- marking a creative doodle depicting the given theme on a given sheet of paper. Even organised on on Jan. 18, 2021. 13 students participated in the event.



The Literary Committee conducted English Aptitude Test on January 15, 2021, Winners are

- 1st position : Mr Ankur Singh B Tech 1st Year IT
- 2nd position: (i) Mr Shobhit Sharma MBA 1st Year
- 2nd position: (ii) Mr Prateek Gupta B Tech 2nd Year IT
- 3rd position: Ms Monishka Bha

The Linguistic Committee

- On 19th February, 2021 Linguistic Committee organized a Debate event where the participants were given some topics beforehand and they prepared either for or against the motion as per their ease. Later audience asked the question based on what they spoke. The event was organized by the Linguistic Committee, COER under the supervision of Dr. Rashmi Gupta, H.O.D, Humanities and the founder of the committee. The performance of participants in the activity was evaluated by Mrs. Gargi Gupta and Mr. Mayank Chauhan.
- **Reminisc 2020:-** This event was conducted on 22nd January 2021. It was an elocution competition wherein participants had to share their views about the year 2020. 2020 wasn't cancelled, but rather the most important year of them all with lots of ups and downs, lots of memories, lots of learnings and so much to remember. It was the perfect topic for the elocution then. This helped in boosting the confidence and self esteem of the students. This also improved the communication skills of the students so that ultimately they can be more persuasive when they speak.
 - PRAGYA CHABBRA (2ND Year)
 - DIVYAXI RAWAT (1ST Year) were the winners of the event.

- **Group Discussion:-** This event was conducted on 5th February 2021. Group Discussion is a form of academic discussion where participants agree on a specific topic to discuss. Each student is given equal right to participate, as illustrated by the idea of circular; layout referred to in the round table.

WINNERS:-

- PRAGYA CHABBRA (2ND Year)
- KUNAL SINGH (2ND Year)

Do not follow where the path may lead. Go instead where there is no path and leave a trail.

Harold R. McAlindon

Monthly Activities

- College of Engineering Roorkee Organized one day Seminar on “Food and Medicine” on 23 February, 2021. Internationally renowned medical nutritionist Dr. Biswaroop Roy Chaudhary was the Speaker of this Seminar. He talked about DIP Diet plan, He also shared his experience that how he has cured the patients only on the bases of food. All the faculties of COER were the part of this insightful seminar.
- CSE department conducted “CODING QUIZ(EARN WHILE YOU LEARN)” on 12 June 2021 On Microsoft team
- CS Students took part in “LOGO MAKING COMPITITION” on 15 June, 2021 , MS Team
- Web Page Making Competition was conducted on “ Coding Ninja” for B tech students on 19 June 2021
- “Résumé Writing Competition” was organized by English Department under the agies of Basic Science & Humanities Department for all the students of B. Tech first year on 8 July, 2021. All the participants mailed their Résumé to English Department. Dr Rashmi Gupta HOD, Humanities Department declared the top three winners of the “Résumé Writing Competition”. Later Renu Rani, Assistant Professor of Humanities Department special lecture on “Résumé Writing”.
- English Department organized an event “Group Discussion Activity” under the aegis of Basic Science and Humanities at College of Engineering Roorkee(COER) on 23rd June, 2021. All the students discussed on the topic with their keen interest which is related to their studies and current situation due to pandemic, where everything is being digitalized. Some of the students of Government Polytechnic Pithuwala also participated with full zeal and enthusiasm.
- “Round Table Discussion” event was organized by English Department under the agies of Basic Science & Humanities Department on 30 June, 2021, Director General of College of Engineering Roorkee Prof S.P Gupta was the Chief –Guest of the event. Students of B.Tech first year (all brance) took part in this event and they all discussed on various topics as “Skills or Concept- What is more important”, Can artificial intelligence replace human intelligence” “ Are corporate jobs a new form of slavery” etc. Dr Rashmi Gupta HOD Humanities Department , Mrs Nidhi Jindal Assistant Professor Humanities Department and Renu Rani Assistant Professor Humanities Department were the jury member of this event.



Placement News

S.NO.	Name of Company	No. of Offers
1	Accenture	7
2	APISERO	2
3	Cognizant	2
4	Consultadd	1
5	360 Degree Cloud	1
6	HCL TECHNOLOGIES	5
7	Hexaware	2
8	IGT SOLUTIONS	11
9	Infosys	2
10	Nagarro Software Pvt. Ltd.	6
11	Panasonic Pvt. Ltd.	5
12	PPAP	7
13	Pritam International Pvt. Ltd.	3
14	R Systems International Ltd.	1
15	Rubico IT pvt. ltd	10
16	TCS	14
17	Tech Mahindra	1
18	Uflex Ltd	2
19	VIVO	2
20	WIPRO	3
21	Congruex	4
22	Okaya	3

Research Paper Publication by Teachers/Students

- AK Chaturvedy, Deep Gupta, Siddharth Jain and Mridula ,”Advances in Energy efficient buildings for New and Old buildings” Sustainability through Energy Efficient Buildings. Ed. Amritanshu Shukla, Atul Sharma. Taylor and Francis, USA. ISBN 9781138066755
- Kamal Kant Verma ‘s research Paper “Deep Multi –model fusion for human activity reorganization using evolutionary Algorithm” published in “International Journal of Interactive Multimedia And Artificial Intelligence”, January 2021,ISSN no 1989-1660
- Renu Rani presented her Research paper on “Mythology an Immerging form of Literature in 21st Century” in International Conference on “Electronic Textual Cultures: A Study of Digital Literature in Digital Space” from March 09 -12, 2021.
- Govind Rai Goyal and Shelly Vadhera, “Multi-interval programming based scheduling of appliances with user preferences and dynamic pricing in residential area” published in –Elsevier- Sustainable Energy, Grids and Networks, ISSN No. 23524677, April 2021.
- Dr.Rashmi Gupta and Dr.Pinki Chugh, “Covid -19 Pedagogical Issues, Challenges and Opportunities”, Publisher: Adhyayan Publishers & Distributors. ISBN: 978-93-88804-99-8, April 2021.
- Dr Rashmi Gupta presented her Research paper on “Efficient Ways of Improving LSRW of Students” in International Conference on “Challenges and Opportunities for Innovation in New Normal Scenario” held on 3rd April 2021 at KSR Institute for Engineering and Technology, Namakkal, Tamil Nadu, India.
- Renu Rani presented her Research paper on “ Efficient Ways of Improving LSRW of Students” in International Conference on “Challenges and Opportunities for Innovation in New Normal Scenario” held on 3rd April 2021 at KSR Institute for Engineering and Technology, Namakkal, Tamil Nadu, India
- Arya A., Gupta P, “Progressive Collapse Analysis of Moment Resisting RCC Frame Structure using ETABS” International Journal of Advance Engineering and Research Development (IJAERD), 8(1), e-ISSN (O): 2348-4470 p-ISSN (P): 2348-6406.
- AK Chaturvedy, Deep Gupta, Siddharth Jain, “Role of Algae and their potential contribution to the sustainable energy. In: Biofuels : Advances and Perspectives”, Publisher: Studium Press India Pvt. Ltd. ISBN 13: 9789385046223.
- Pooja Sharma, Shail Dinkar , D V Gupta ,”A Novel Hybrid Deep Learning Method with Cuckoo Search Algorithm for Classification of Arrhythmia Disease Using ECG Signals” Springer Journal- ‘Neural Computing & Applications (NCAA)’, June 2021

“If you can imagine it, you can achieve it; if you can dream it, you can become it.”

–William Arthur Ward

Conference/Seminar/Workshop/ Attended and Paper presentation/Webinar

- Govind Rai Goyal attended "TEQIP-III sponsored "International Conference on Science and Computing (ICSC 2021)" in RTU (ATU) from January 23 -24, 2021.
- Ravi Prakash, Thomas Mathew, Dr. Gunjan Agarwal, Mohit Senger, Dr. Nitesh Dutt, Ankit Kumar Singhal, attended Expert Lecture on "New Education Policy" by Mr. Sanjeev Sancheti on 06 Feb. 2021.
- Ravi Prakash, Thomas Mathew, Dr. Gunjan Agarwal, Mohit Senger, Dr. Nitesh Dutt, Ankit Kumar Singhal, attended Expert Lecture on "A fusion of modern science & technology of the future extremely low energy isomers" by Prof. AK Jain on 13 Feb. 2021.
- Ravi Prakash, Thomas Mathew, Dr. Gunjan Agarwal, Mohit Senger, Dr. Nitesh Dutt, Ankit Kumar Singhal, attended workshop on "Intellectual property rights (IPR) and IP management for startup", on 13 Feb. 2021.
- Dr Mridula attended Workshop on, "Incubation, Innovation, Entrepreneurship and Startup" from January 23-February 03, 2021.
- Ravi Prakash, Thomas Mathew, Dr. Gunjan Agarwal, Mohit Senger, Dr. Nitesh Dutt, Ankit Kumar Singhal, attended Expert Lecture on National Science day by Prof. TK Sundermurti, on 28 Feb. 2021.
- Dr Om Singh, "Arsine: Risk assessment, environmental, and health hazard" Published in Academic Press, Elsevier ISBN 978-0-323-89857-7, in February 2021.
- Ravi Prakash, Thomas Mathew, Dr. Gunjan Agarwal, Mohit Senger, Dr. Nitesh Dutt, Ankit Kumar Singhal attended Workshop on "Advanced industrial Automation Technologies" on 19 March 2021.
- Ravi Prakash, Thomas Mathew, Completed NPTEL Course on topic "Fundamental of Welding Science and Technology" From IIT Guwahati on 21 March 2021
- Divya Mishra, "Data Science for Covid-19" published in Elsevier on 29 April, 2021.
- Kamal Kant Verma, "Deep Learning Approach to Recognize COVID-19, SARS and Streptococcus Diseases from Chest X-ray Images" published in Journal of Scientific and Industrial Research, JSIR (SCIE) on 21 April, 2021.
- Dr Om Singh, "Arsenic penta fluoride: Risk assessment, environmental, and health hazard published" in Academic Press, Elsevier, ISBN 978-0-323-89857-7 in May 2021.
- Diploma Final year students of other diploma Colleges attended Online webinar series on "Perspectives of Civil Engineering" organized by Department of Civil Engineering, COER, Roorkee, from May 19-29, 2021.
- Gargi Gupta, attended 5 Day online workshop on "Data Visualization", conducted by with tableau from Skill Nation from May 25-30, 2021 at Skill Nation (online).
- Renu Rani, Mythology an Emerging Trend in 21st Century, Published in a book "Contemporary Multi-Disciplinary Research Dimension" ISBN-9781639576326 in May 2021
- Sharad kumar singh, conducted One day Workshop on "3D Modeling and animation" for students on 4 June 2021.
- CE students Attended Webinar on "WEBINAR-SERIES on INTRODUCTION TO CIVIL ENGINEERING SOFTWARES" organized by CETPA INFOTECH PVT LTD, ROORKEE, from June 21-30, 2021.
- CE students completed online software training on Software training on Bridge and building Designs through MADAS software, MIDAS R & D Center from June 21, 2021 to July 02, 2021.
- One Week Faculty Development Programme on "Application of Mathematics in Science and Technology" Organised by the Department of Science and Humanities, Narasu's Sarathy Institute of Technology, Salem from June 21-26, 2021
- Dr Summiya Parveen, "A New Approach To Solve Homogeneous And Non- Homogeneous Differential Equation By Using Matlab Software". A poster presentation in in "International Virtual Conference on Computational Mathematics-2K21", organized by Department of Mathematics, PPG College of Arts and Science, Coimbatore, India held on June 24-25, 2021.

Faculty Development Programme

- Dr.D.V.Gupta attended FDP on the topic "Role of Numerical Techniques in Chemical Engineering with MATLAB" organized via online mode during 11-01-2021 to 15-01-2021 by the Department of Chemical Engg. & Department of Mathematics, Indian Institute of Technology Roorkee.
- Kshitij Jain attended ATAL FDP on "Data Science" from June 6-11, 2021.
- Renu Rani attended two week online International FDP on "Communication Skills: Theory and Practices" organized by Integral University, from 14-25 June, 2021.
- Dr. Rashmi Gupta attended "School of Liberal Arts 14 day FDP on Research Methodology" from July 6-19, 2021.
- Nidhi Jindal attended "School of Liberal Arts 14 day FDP on Research Methodology" from July 6-19, 2021.

F-E-A-R: has two meanings:

1. Forget Everything And Run
OR
2. Face Everything And Rise



The Choice is Yours!

Congratulations

Dr. Rashmi Gupta Published a Book
"COVID-19, Pedagogical Issues
Challenges and Opportunities".



Editor in Chief: Dr. Rashmi Gupta (Asstt. Professor)
Editorial Team: Nidhi Jindal, Renu Rani
Design & Layout: Mr. Rakesh Negi
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