



Saraansh



Message from The Editorial Desk

The Covid-19 pandemic has disrupted the classes of the students and has created a situation of global crisis. The members of COER institutions of Higher Education have risen to the occasion to resolve and find solutions to the current crisis. During these hardships everyone stands together and are putting all efforts to counter this problem. I wish that this upcoming year bring good time and health for everyone.

I owe a heartfelt thanks to all who contributed in Saraansh. I extend my immense gratitude to a very dedicated editor Dr.Renu Rani and layout designer Mr. Rakesh Negi for their relentless and untiring efforts in this regard.

Best Wishes!

Dr.Rashmi Gupta

Message from Managing Director

COER Institutions of Higher Education is dedicated to cultivating an environment that fosters innovation, creativity, and brilliance in our students. By providing high-quality technical education, as well as suitable training and extensive exposure to state-of-the-art techniques, we hope to educate young engineers to confidently and professionally meet the challenges of rising competition.

Our educational programs place a strong emphasis on overall personality development as well as instilling human values and professional ethics in our students, allowing them to become more compassionate and socially aware in order to live a meaningful life.

I believe that the newsletter will serve as a window through which the complete profile of the academic and co-curricular activities, achievements and progress made during the stipulated period can be viewed

Best wishes for the success and bright future of all students.

Mr.Shreyansh Jain



Message from Dean Academics

“Science can amuse and fascinate us all, but it is engineering that changes the world.”

Over the years, our students have made College of Engineering Roorkee a name known across the academia and industry. Our students have made their marks into all sectors including government, private or public to serve the country in various capacities.

As Dean Academics of the college, I'm extremely proud of providing practical, experience-based education that our college has upheld since its founding. Our different programs prepare our students to become leaders with the moral depth and intellectual intensity necessary to meet the challenges of a time of critical transition in society.

The beautiful green campus of COER Institutions of Higher Education provides a great backdrop for equipping new students with the latest technology and communication skills to translate their ideas into workable realities, thanks to a brilliant and devoted staff of professionals and academicians and a well-equipped infrastructure. At COER Institutions of Higher Education, we strive to cultivate fruit-bearing trees that benefit humanity as a whole. Through its never-ending efforts to improve, the institute is dedicated to promoting quality and service.

Dear Students, I look forward to all of the great things that you do in your future endeavors and wish you all the best!

Dr.Kamal Kapoor



Foundation Day of College of Engineering Roorkee

COER Institution of Higher Education celebrated its **24th Foundation Day Anniversary** on 3 December, 2021. The event started at 11:00 a.m., in the presence of Dr Rajendra Dobhal, Director General, Government of India Uttarakhand State Council of Science and Technology, Chairman Er. J.C.Jain, Managing Director Mr.Shriyance Jain, Vice President, Mrs. Sunita Jain and Executive Director, Mrs.Charu Jain, Vice-Chancellor of UETR Dr S.P.Gupta and Director Dr. B. M. Singh. The programme started with the welcome of chief guest Dr Rajendra Dobhal, Director General, Government of India Uttarakhand State Council of Science and Technology who inaugurated the programme by lighting the ceremonial lamp. It was followed by screening a video that was based on all the events organized by the COER committee throughout the year.

Hon'ble Chief Guest, Director General Dr Rajendra Dobhal, Uttarakhand State of Science and Technology congratulated all the students, staff members, teachers and management committee on the 24th Foundation Day. Addressing the gathering, he praised the contribution of technical and management education of College of Engineering Roorkee, which has become a group of educational institution and said “COER Institutions of Higher Education has a distinct identity on the map of education; not only in Uttarakhand but its identity has spread to every corner of India. And hardly the world where it's number of students is serving”.



Committee News

Oorja - The Culture Committee

On 30 October, 2021 **Deep Sandhya** was celebrated at COER Institutions of Higher Education in Vardhman Auditorium. **Oorja - The Culture Committee's** students decorated the area with a theme of Ramayan, Deep Sandhya is an evening ceremony which is celebrated a day before the Deepawali. Students gave the fantastic performance on this evening. At the last of the event everyone enjoyed the dinner and wished Diwali to everyone.

Sports Committee

- "Khel Mahakumbh" was organised at COER Institutions of Higher Education from 8 November, 2021 to 12 November, 2021. Aim of this KHEL MAHAKUMBH was to encourage every individual to participate in the event. This event incorporated 36 games and Special Khel Mahakumbh for Divyang players. The games were scheduled in such a way that every individual from 9 to 60 years old could participate in this Grand Sports Event .
- "Inter-Branch Cricket Tournament 2021-2022" held in College of Engineering Roorkee from 28 December, 2021 to 31 December 2021. Participants came from the different schools of Uttarakhand. Director of the COER Institutions of Higher Education gave trophy to the winners.

AWARD

On 30 November, 2021 College of Engineering Roorkee received "Best Engineering College" award in Industrial Interface of the year-2021 in 2nd Dehradun International Science & Technology Festival.



AWARD

- Dr Siddharth Jain secured a place in the list of world's top 2% researcher. The list was published by Stanford University, USA On 19th October, 2021.



- Mr. Kshiti Jain, Assistant Professor of Computer Science and Engineering received the award of "Young Engineer" in 36th Indian Engineering Congress Centenary Celebration on 26 December, 2021 in Delhi.

INDUSTRIAL ACADEMIA MEET

On 29 November, 2021, "Industrial Academia Meet" was organized at COER Institution of Higher Education in Vardhman Auditorium. Main objective of this meet was to Establishment of channels between Industries and Academia for the development of skills of students and employees of both on the latest technology. Shri Rohit Meena ji (IAS) Director General, Industries, Uttarakhand was the chief guest of this event

FELICITATION PROGRAM

A welcome ceremony was organized for **Amit Hooda** on 09 October, 2021 at COER Institution of Higher Education. He is an Indian kabaddi player who plays for the **Jaipur Pink Panthers** in the Pro Kabaddi League and the Indian National men's Kabaddi team. He taught the students how to play Kabaddi.

Placement News

S.NO.	Date	Name of Company	TOTAL
1	12.10.21	Sirionlabs	4
2	16.10.21	Virtusa	1
3	20.10.21	Excela Technologies	1
4	22.10.21	Get My Parking	12
5	26.10.21	Rubico IT	4
6	17.11.21	Collabera	24
7	17.11.21	Wipro	20
8	3.12.21	Planet Spark	5
9	8.12.21	Evon Technologies Pvt. Ltd.	1
10	17.12.21	Prism Johnson Ltd.	3
11	18.12.21	Asahi India Glass Ltd.	2
12	25.12.21	Kellton Tech	16
13	27.12.21	HCL	7

ALUMNI MEET

On 3rd December, 2021, College of Engineering Roorkee celebrated the Alumni Meet 2021. On this occasion Mr. Pankaj Kumar ,Founder and a CEO of MSS Payments. Mr. Santosh Kumar Project Director & Delivery Manager in Hexaware Technology, Bangalore, Mr. Pranshu Naswa Product Manager in Microsoft , Hyderabad, Mr. Khajaan Singh Deputy Chief Engineer in NLC India Limited , Bikaner, Mr. Rajeev Kumar, Assistant Manager in BHEL , Haridwar, Mr. Navneet Singh, state Tax officer in State Tax Department, Haridwar were present. Every alumni of COER Institutions of Higher Education shared their experience with the students.

Unnat Bharat Abhiyan

The activity Baseline Household Survey & Awareness of Sukanya Samridhi Yojna under the aegis of Unnat Bharat Abhiyan (UBA) was held at adopted village Bajuheri, Roorkee by COER Institutions of Higher Education from 28 December 2021 to 30 December 2021. The activity was conducted by UBA members and students of COER. All of them visited the village Bajuheri from College by college bus. Dr. Amar Nath (UBA Coordinator), Dr. Om Singh (UBA member), Dr. Pankaj Kumar (UBA member), Dr. Shubham Khari (faculty Advisor) Mr Mayank Chauhan (faculty Advisor), Mrs.Sonam Dubey (Faculty Advisor), Mr. Raj Singh (Chemistry Lab Staff), Vipin Kumar (ME. Lab staff), and 152 Computer Science and Engineering students (B.Tech. I year) went to the village for the survey and awareness of Sukanya Samridhi Yojna on different days.

Education is the most powerful weapon which you can use to change the world" – Nelson Mandela.

LECTURES

- Under COER Eminent Lecture Series a guest lecture was scheduled on 1 October, 2021 on “**Evolution of Seismic Design-from Seismic Efficient Method to Performance Based Design**” by **Dr. Yogendra Singh, IIT Roorkee** at COER campus.
- On 19 October, 2021 a guest lecture on “**Solar Photovoltaic Monitoring**” was held in Mechanical Engineering Department at COER institutions of Higher Education. The coordinator of the lecture was **Dr. Siddharth Jain**. The resource person of this lecture was **Prof. Shiva Rama Krishna Madeti, faculty of Engineering, Universidad de Santiago de Chile**.
- COER Eminent Lecture Series organized a guest lecture on “**Use of Nature Inspired Optimization Techniques to Solve Real life Problems**” on 20 October, 2021. The lecture was based on how humans can resolve *real-world problems* effectively by applying Nature-inspired methodologies and a set of algorithms for solving real-life problems which are derived from natural processes.
- On 11 November, 2021, English Department organized an online guest lecture on “**Career and Emotional Counselling**”. **Dr. Pragya Mishra** and **Garima Mathur** were the resource persons. The lecture helped students in deciding how to study and what to study. The coordinator of the lecture was **Dr. Renu Rani, Asst. Professor of English Department**.
- On 22 November, 2021 an expert lecture was organized by Civil Department at COER institutions of Higher Education on “**High strength Fiber Reinforced Concrete and its Behavior and Application**”.
- On 20 December, 2021 Mechanical Department conducted an online guest lecture on “**Lean and Six Sigma**”. **Lean Six Sigma** is basically a team-focused managerial approach that seeks to improve performance by eliminating waste and defects.

Words have no meaning if they're not exposed to action. Action has no power if it's not interpreted to words.

Book Publication

Dr. Rashmi Gupta and **Dr. Renu Rani** published a book on “**Psychological Impact of Pandemics in Different Eras-an Analytical Study in the Backdrop of Covid 19.**”



TWO THINGS TO REMEMBER IN LIFE:

"Take care of your thoughts when you are alone", and
"Take care of your words when you are with people."



ACTIVITIES@COER

- English Department organized an **Essay Writing Competition** on 22 October, 2021 by the coordinator **Mrs. Nidhi Jindal**. It promoted critical thinking of students whereby they reflect on an issue and reach a conclusion. Students learnt how to observe different perspectives and views.
- On 23 October, 2021 a **live Mehandi Competition** was organized at COER campus in CB-105 (seminar hall) and the coordinator of the programme was **Mrs. Anuradha Singh**. Students showed their talent by applying beautiful mehendi. First three winners of the competition got prize.
- On 08 November, 2021, English Department launched “**English Speaking Course**” for the students. The main objective of this course was to enhance English speaking skills of the students where students can deliver their speech in English fluently and in more effective way. The course also helped in boosting the confidence of the students so that they also become able to express their ideas fluently and spontaneously.
- On 13 November 2021, “**Parents Day**” was scheduled at COER institution by **Dr. D.V. Gupta, Dean (BS&H)** and **Dr. V.K. Singh, Dean (SW)**. It is an opportunity to model their parents' behavior. It aimed to help parents to observe and learn about their child's strengths and weaknesses, which helps them to better guide them.
- On 25 November, 2021, English Department organized a “**Resume Writing Competition**”. The coordinator of the competition was “**Dr. Renu Rani**”. The aim of the competition was to enhance the resume writing ability of the students. It helped how to draft resume. E-Certificate were given to winners.
- On 10 December, 2021, English Department organized “**Round Table Discussion**” for the students. The key aspect of this activity was to enhance the speaking and the critical thinking of the students. Through this activity students learned how to observe different perspectives and views. E-Certificates were given to all the participants.
- COER Institution of Higher Education celebrated “**India International Science Festival 2021**” on 11 December, 2021. The Festival focused on spreading technical knowledge and suffices enthusiasm in the mind of the students to develop technology.
- On the occasion of “**World Energy Conservation Day**”, an online quiz competition was organized on 14 December, 2021. The aim of the competition was to spread the awareness of energy and its conservation among the people and society.
- Faculty Development Cell AICTE – Student Learning Assessment (PARAKH) scheduled a program on 15 December, 2021, for enhancing the learning ability of the students on various assessments. It is a scheme which is working towards building the strong foundation of an educational system to ensure quality education under the banner name **PARAKH** which stands for **Performance Assessment, Review, and Analysis of Knowledge for Holistic Development**.
- On 20 December 2021, COER Institutions of Higher Education organized “**Veer Madho Singh Bhandari Sport Tournament**” for two weeks. Badminton and Kababdi were played during this tournament. Students from different colleges participated in it.
- On 21 December, 2021 Electronics & Telecommunication Department organized an online “**Technical quiz competition**”. E-Certificates were given to all the participants.
- On the occasion of “**National Mathematics Day**”, an awareness program was organized at COER Institutions of Higher Education on 22 December 2021. Students celebrated National Mathematics Day to commemorate the birth anniversary of great mathematician **Srinivasa Ramanujan**. A mathematical genius who had made substantial contributions in the field of mathematics which includes mathematical analysis, number theory, infinite series and many more.

Staff Development Program

- English Department organized “**Staff Development Programme**” organized at COER institutions of Higher Education on 27 October, 2021. Dr Renu Rani taught Business Correspondence during this programme. E-certificates were given to all the staff members who attended this.
- On 17 November, 2021 “**Staff Development Program for Machining**” was organized by Mechanical Department. The programme encompassed how an individual can operate the machines with proper knowledge so that students would be able to learn easily.
- On 18 November, 2021, “**Staff Development Program for Computer Skills**” was organized by Computer Science Department.

Industrial Training Program

On 20 November, 2021 Electronics & Telecommunication Department organised an Industrial Training Program on “**Embedded System Design**”. Embedded systems design is the process where hardware and firmware designers come together to build embedded systems from scratch. This involves PCB design, where the necessary components are connected to build functional circuits.

WEBINAR

- On 1 December, 2021 a webinar held at COER Institutions of Higher Education for the students of EC, EE and CS on “**Evolution of Embedded System**”. Professor M. Balkishan was the resource person of the webinar.
- Department of Electrical & Electronics organized a webinar on “**National Pollution Control Day**” on 2 December, 2021 focusing on the topic “**Coal Bed Methane; A clean Energy Option**”. In Coal bed methane (CBM) is an unconventional form of natural gas found in coal deposits or coal seams. It is primary clean energy source of natural gas.
- A live webinar was organized at COER institutions of Higher Education by **Dr. Rohit Kanauzia** on **Internet of Things (IOT) and its application** for CS & IT departments on 21st October, 2021.
- A webinar was organized for **Curriculum Reforms** at COER institutions of Higher Education by Mr. B.D. Patel on 23rd October, 2021.
- An online webinar was organised in COER-Institutions of Higher Education by Mr. Nitesh Dutt on 23rd October, 2021 focussing on “**How Students can Build their Profile for Pursuing Higher Education**”. He also gave very important points to the students that are beneficial for their placement and career.
- An online webinar on “**Digitalization of Power Sector as Career Opportunities**” held on 26 October, 2021 at COER institutions of Higher Education by **Mr. Govind Rai Goyal**. The webinar unfolded the career opportunities in the power sector by digitalizing it so that it offers greater transparency into operations, which greatly increases efficiency and reliability while decreasing costs. Consumers will not only see the benefits of digitalization through lower monthly utility bills but also reduced outages and faster response time.

Research /Conference/Seminar Attended and Paper presentation

- Mrs. Anuradha, Dr. A.S. Yadav, Dr. Sanjay Sinha, attended and presented a paper entitled, “**SOLAR -WIND BASED HYBRID ENERGY SYSTEM: MODELING AND SIMULATION**” IEEE conference RDCAPE 21 on October 6-7, 2021.
- Mrs. Anuradha published a patent entitled, “**A SYSTEM FOR SOLAR PV FORECASTING USING MACHINE LEARNING INTERFACE AND METHOD THEREOF**” in patent journal.
- Fidah Hussian, Sam Joseph Paul, Govind Rai Goyal, and Bhanu Pratap Soni, “**Solution of Economic Load Dispatch Problem Using Artificial Bee Colony Algorithm**” in the International Conference on Intelligent Energy Management in Smart Cities (ICIEMSC-2021), organized on 25th to 26th November 2021.
- Fidah Hussian, Sam Joseph Paul, Govind Rai Goyal, and Aadesh Kumar Arya, “**Network Reconfiguration using Fuzzy Logic for Power Flow Balancing in IEEE 30 Bus System**” in the International Conference on Intelligent Energy Management in Smart Cities (ICIEMSC-2021), organized on 25th to 26th November 2021.

Chief Editor: **Dr. Rashmi Gupta (Associate Professor)**

Editor: **Dr. Renu Rani (Asst. Professor)**

Design & Layout: **Mr. Rakesh Negi**

Suggestions invited at: **Saraansh@coer.ac.in**

Workshop

- On 18 November, 2021 one day workshop was organized at COER Institutions of Higher Education on “**Hands-on GIS GPS**”. GPS (Global Positioning System) uses satellites that orbit Earth to send information to GPS receivers that are on the ground. The information helps people determine their location. GIS stands for Geographical Information System. GIS is a software program that helps people use the information that is collected from the GPS satellites
- On 13 December, 2021 one day workshop was organized on the preparation of **National Board of Accreditation**. Prof. Sanjeev Sofat was the resource person of the workshop. Faculty members of COER institutions of Higher Education also asked questions related to NBA.
- On 20 December, 2021 Electronics & Telecommunication Department organized one day workshop on **Virtual lap** in association with IIT-Roorkee.
- On 20 December, 2021 a workshop was organized on “**Research paper writing**”. Dr. Sidharth Jain was the resource person for this workshop. He gave important points for a good research paper
- 78 students of B.Tech first year and B.Sc Agriculture completed Moot Course on **Grammar and Punctuation** through **Course Era** platform in the guidance of Dr Renu Rani.

