CHANDIGARH
ENGINEERING COLLEGE
CGC, LANDRAN, MOHALI
Building Careers. Transforming Lives.

The Communiqué

(Capturing Moments, Preserving Memories)

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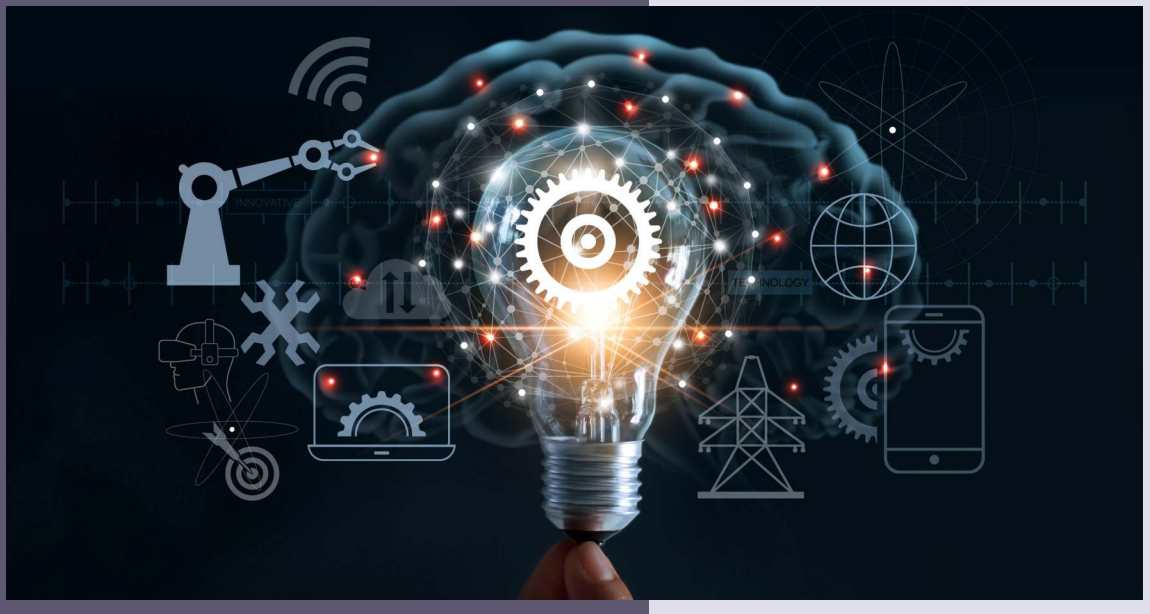
An Institution of Excellence

2024



www.cgc.edu.in

Vision of the Chandigarh Engineering College- CGC, Landran, Mohali

To become a leading institute of the country for providing quality technical education in a research based environment for developing competent professionals and successful entrepreneurs.

Mission of the Chandigarh Engineering College- CGC, Landran, Mohali

1. To provide state of the art infrastructure and engage proficient faculty for enhancing the teaching learning process to deliver quality education.
2. To give a conducive environment for utilizing the research abilities to attain new learning for solving industrial problems and societal issues.
3. To collaborate with prominent industries for establishing advanced labs and using their expertise to give contemporary industry exposure to the students and faculty.
4. To cater opportunities for global exposure through association with foreign universities.
5. To extend choice based career options for students in campus placements, entrepreneurship and higher studies through career development program.

(Prof.)Dr. Rajdeep Singh
Director Principal
Chandigarh Engineering College-CGC, Landran, Mohali

Dear Students, Faculty, and Staff

The current edition of Communiqué, our college's quarterly magazine, prompts me to reflect on the dynamism and perseverance that define our academic community. This issue signifies not only the completion of another quarter, but also advancement in our collaborative quest for development and exploration. Over the past few months, our college has achieved a range of accomplishments that demonstrate our commitment to delivering top-notch education, conducting influential research, and actively participating in community engagement. Our students have exhibited outstanding performance in various competitions. In addition, the faculty members have made notable contributions to the research field. By engaging in collaborative endeavours, we have successfully cultivated robust linkages with companies, thereby enhancing our standing as a prominent institution renowned for its expertise and groundbreaking ideas. This edition highlights the achievements and features stories that embody our ethos. Each page is filled with the vibrant energy and enthusiasm of our community.

Thank you all for your continued effort and passion. Let us continue to encourage and support one another as we strive not only for academic greatness, but also for a more complete and meaningful connection with our surroundings.

Dr. Vinay Bhatia
Professor & Head, ECE Department

Greetings Everyone!!!
I am delighted to express my views regarding the release of the college magazine. While perusing the pages, you will gain knowledge about the college's noteworthy accomplishments. The college magazine serves as a representation of the diverse range of activities organized at the college, providing students with an opportunity to demonstrate their skills and talents.

Chandigarh Engineering College-CGC Landran ensures that its students exhibit qualities of conscientious and exemplary citizens of our nation, in addition to their exceptional engineering expertise. Excellence is regarded and implemented consistently at CEC-CGC. In pursuance of this objective, the institute has produced noteworthy individuals such as eminent scholars, entrepreneurs, proficient leaders, innovative technocrats, and researchers.

The institute is dedicated to maintaining its core values and fulfilling its mission of cultivating individuals who possess a combination of comprehensive knowledge and exceptional expertise in their respective fields. The college magazine functions as a visual depiction of the comprehensive journey across various disciplines and showcases the exceptional abilities and aptitudes of both our esteemed faculty and talented students. At last, my heartfelt compliments to the editorial team for their monumental efforts in bringing out this magazine.

From the Editor's Desk….

Dear Readers,

Greetings and welcome to the 31st edition of Communiqué, a quarterly publication that serves as a source of information, accomplishments, and perspectives of our college. The composition of each edition is a carefully constructed arrangement, incorporating the narratives and knowledge shared by our vibrant community of intellectuals, innovators, and influencers. This quarter has been especially motivating. The pages are replete with contributions that not only demonstrate our scholastic prowess but also our shared integrity and ingenuity. The anecdotes recounted here reflect the dynamic existence of our campus, encompassing innovative research endeavours and culturally rewarding celebrations.

I would also like to specify that from this issue onwards, we have introduced a separate students' section. Articles authored by our student contributors will be featured in this section.

Lastly, I would like to extend my sincere gratitude to all of our contributors, including students, faculty, and staff, for generously sharing their expertise and articles. Your articles are what elevate Communiqué from a mere publication to an active chronicle of our shared experience.
Above all, thank you everyone for your continued support and readership.

Dr. Inderjot Kaur
Editor-in-Chief

RANKING & AWARDS 2024

1 NAAC A+ Grade obtained in March 2024

- CEC-CGC landran has achieved NAAC A+ Grade by NAAC

2 Dataquest Tech School survey, 2024

- 1st in Punjab in Top T-Schools (Private)
- 5th rank in North India (Zone Wise)
- 12th rank in Top 100 T-Schools (Private)
- 17th rank in Top 100 T-Schools (Overall) – Government and Private

3 NIRF Ranking 2023

- CEC-CGC landran has been ranked in 100-150 Band in Engineering Category

4 NIRF Innovation 2023

- CEC Positioned in the band of 51-100 in the Innovation Category

5 Patent Filing Rank

CGC Landran bestowed with 4th position Pan India among the Top 10 Patent filing Institutes and 3rd among the Top 5 in the field of Information Technology along with the IITs, other premium Institutions and IT Corporates in the country.

6 MoE-AICTE

CEC-CGC, Landran, Mohali has received the highest 3.5-star rating by Institution Innovation Council of the Ministry of Education (MoE) and All India Council of Technical Education (AICTE) for demonstrating excellence in activities related to Innovations, Entrepreneurship, Startups, and Research & Development.

7 Dataquest CMR Employability Index Survey 2023

- 10th Rank Overall among top 100 T Schools (Government and Private)
- 6th Rank Overall among top T Schools (Private)
- 5th Rank in North India in Top 10 Zone Wise Institutes (Government and Private)

8 Dataquest Tech School survey, 2023

- 1st in Punjab in Top 100 T-Schools (Overall) – Government and Private
- 1st in Punjab in Top T-Schools (Private)
- 15th rank in Top T-Schools (Private)
- 5th rank in North India (Zone Wise)
- 22nd rank in Top 100 T-Schools (Overall) – Government and Private

9 India Today Ranking 2023

- 2nd Rank in Private Colleges in Punjab
- 4th Rank in Private Colleges and Universities in Punjab
- 61th Rank across country among Private Colleges
- 1st in Top Five Gainers among First 100 (Govt+Private)

10 Outlook I-Care Rankings 2023-India's Best Colleges

- 59th among top 100 private institutes in India
- 4thprivate institute among Punjab including (University's Institutes)
- 1stprivate college in Punjab (excluding university's Institutes)

11 THE WEEK-Hansa Research Survey 2023

- 8th in private colleges North Zone
- 39th Rank in private Engineering colleges across the country
- 65th Rank in Engineering Colleges all over India

12 Times of India Engineering Survey 2023

- 3rd in Research Capabilities
- 91th in Top 170 Private Institutes
- 88th in Top 125 private Engineering Institutes

13 CSR-CHRDC Ranking 2023

- 12th Position in Top Emerging Colleges of Super Excellence
- 4th Position in Top Engineering Colleges in State of Punjab

Chandigarh Engineering College-CGC Landran obtained NAAC A+ Grade

Chandigarh Engineering College-CGC Landran, Mohali obtained NAAC A+ grade and accreditation from the National Assessment and Accreditation Council (NAAC) in the month of March, 2024. The attainment of this esteemed recognition indicates that our institution has successfully fulfilled stringent national criteria for delivering high-quality education. The NAAC accreditation process entails a comprehensive assessment of our academic programmes, faculty, infrastructure, and student services. The acquisition of this accreditation serves as a testament to our college's unwavering dedication towards delivering a superior educational experience to every student.

राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

Certificate of Accreditation

The Executive Committee of the
National Assessment and Accreditation Council
is pleased to declare
Chandigarh Engineering College-CGC, Landran, Mohali
Landran Mohali, Kharar-Banur Highway, Sector 112, Mohali,
affiliated to I.K. Gujral Punjab Technical University, Punjab as
Accredited
with CGPA of 3.42 on four point scale
at A+ grade
valid up to March 08, 2029

Date : March 09, 2024

Director

32587

EC(SC)/189/1st Cycle/PBCOGN113668

Cake cutting ceremony by Hon'ble President CGC for achieving NAAC A+ Grade

Hon'ble President CGC congratulating CGC officials for achieving NAAC A+ Grade

CEC-CGC once again stands tall in Dataquest Tech School Survey, 2024

Chandigarh Engineering College-CGC Landran, Mohali is gratified for its achievement once again in Dataquest Tech School Survey, 2024. CEC-CGC, Landran, Mohali has secured 1st rank in Punjab in Top T-Schools (Private), 5th rank in North India (Zone Wise), 12th rank in Top 100 T-Schools (Private) and17th rank in Top 100 T-Schools (Overall) – Government and Private.

1st rank in Punjab in Top T-Schools

5th rank in North India

12th rank in Top 100 T-Schools (Private)

17th rank in Top 100 T-Schools (Overall)

5th Two-fold International Conference organized by ECE and Mechanical Engineering Departments

The Department of Mechanical Engineering and Department of Electronics & Communication at Chandigarh Engineering College-CGC, Landran, Mohali successfully organized two- fold 5th International Conference on "Contemporary Advances in Mechanical Engineering (ICCAME-2024)" and "Innovations in Communication, Computing and Sciences (ICCS-2024)" on 21st & 22nd March, 2024. This conference witnessed an overwhelming response from the students, researchers, academicians and industry professionals as more than 150 research articles were submitted to this conference from the prestigious institutes in India like Vellore Institute of Technology, Chennai, Anna University Tiruchirappalli, Lakireddy Bali Reddy College of Engineering Mylavaram, Lokmanya Tilak College of Engineering, Navi Mumbai, Atria Institute of Technology Bangalore, R.B.S Engineering Technical Campus Bichpuri Agra, Panimalar Engineering College Chennai, University of Allahabad Prayagraj, St. Joseph's College of Engineering Chennai, Amity University Noida, N.P.R College of Engineering and Technology Natham, SRM Institute of Science and Technology Chennai, Jain University Bangalore, NITTTR chandigarh, ABMSP's Anantrao Pawar College of Engineering and Research Pune, G Pullaiah College of Engineering and Technology Kurnool, Guru Nanak Dev Engineering College Ludhiana and from outside India like Shah Alam Selangor Malaysia, Systec R&D Porto Portugal, Berlin School of Business and Innovation GmbH Berlin Germany out of which 60 have been selected after rigorous peer review process. The event was honoured by distinguished guests including Chief Guest Prof. BaldevSetia from Punjab Engineering College, Guest of Honor Prof.Sanjiv Gupta, and Guest of Honor Prof.Sarbjit Singh from PEC, Chandigarh.

Keynote speakers Dr. M V Reddy from Nouveau Monde Graphite, Montreal, QC, Canada, and Prof.HaNa Yu from the University of BATH, UK, joined virtually, adding global perspectives to the conference. The organizing team was lauded for their efforts, and 8 participants received Best Paper Presentation Awards, highlighting the conference's success.

Keynote speakers addressing the gathering during the conference

Director-Principal CEC-CGC Welcoming the Chief Guest

A glimpse of the dignitaries releasing the conference proceedings booklet

Dr. Rajdeep Singh honouring the Guest during the opening ceremony of the conference

National Science Day-2024 abuzz with scientific fervour sparked Innovation and Inspiration

Applied Sciences Department in association with the Department of Student Welfare organized and celebrated National Science Day on 27th & 28th February, 2024. The two-day event commemorating the groundbreaking discovery of the Raman Effect by Sir C.V. Raman was met with tremendous enthusiasm and a steadfast dedication to stimulate curiosity and scientific temperament among the students. The theme of this year's National Science Day was "Indigenous Technologies for Viksit Bharat." The objective was to highlight the significance of indigenous technologies in the development and progress of the nation. The event provided a valuable platform for participants to showcase the impact of indigenous technologies on fostering a sustainable and developed India.

The two-day event commenced with an inaugural ceremony graced by the Chief Guest Dr. Surender Singh Saini (Senior Principal Scientist at CSIR- Central Scientific Instruments Organisation, Chandigarh), Guest of Honour Dr. Divya Aggarwal (Principal Scientist, Biomedical Applications (BMA), Honourable President –CGC S. Rashpal Singh Dhaliwal and other dignitaries. In his keynote address, the Chief Guest emphasised the role of indigenous technologies in promoting economic development and self-reliance. The 2024 National Science Day was more than just a two-day celebration; it served as a springboard for students to rediscover their love for science. Approximately 1100+ students both from CGC and outside colleges participated in this national level event. The competitions like Code-O-Fiesta (Coding event), Sci-Quest (Science Quiz Competition), Tech Hunt (Technological Riddle), Sci-Stroke (Poster Making), Waste Craft (Best Out of Waste) and Research for Pioneer (Exhibition of Working Projects and Models) had a lasting significance and it inspired young minds to explore the world of science beyond textbooks and dive deeper into the realm of possibility. Participants engaged in a fierce competition, showcasing their knowledge across various scientific disciplines. The standout feature of the event was the showcase of "Working Projects and Models." Budding scientists and engineers showcased their expertise and skills at CGC's central park during the project display. The display of more than 200 projects involved environmentally conscious solutions and working models of scientific concepts. Adding to the excitement was a cultural program that was held prior to prize distribution ceremony. Outstanding contributions in different competitions were recognized through cash prizes, trophies and certificates.

Hon'ble President CGC honouring the Guest during NSD 2024

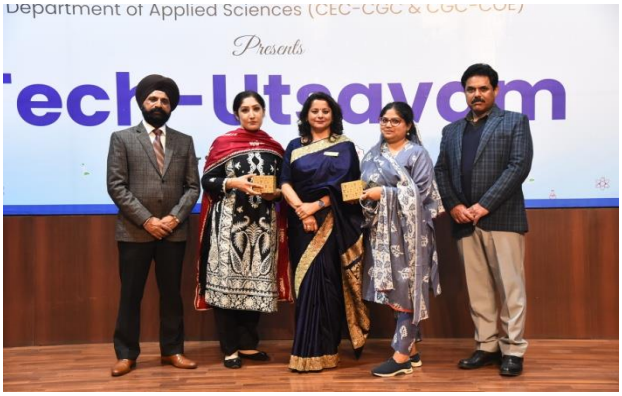
Hon'ble President CGC honouring the Guest during NSD 2024

Hon'ble President CGC interacting with students during NSD 2024

CEC-CGC student receiving certificate during NSD 2024

Flash Mob by CGC students during NSD2024

CEC-CGC student receiving award during NSD 2024



Faculty members receiving token of acknowledgement during NSD 2024

First Year students during Project display in NSD 2024

Alumni Talk and Workshop on Latest Innovations in Designing & Simulation

The Department of Mechanical Engineering arranged an Alumni Talk and Workshop on Latest Innovations in Designing & Simulation on January 23, 2024. The session was conducted by Aman Sharma, a CAE Engineer from P2P Analysis and Solutions. The event aimed to familiarize undergraduate students with new innovations and commands in designing software. The program's primary goal was to enhance students' understanding of innovative design software to prepare them for successful entrepreneurship. Mr. Aman Sharma emphasized the abundance of opportunities available in the field of design and simulation, motivating students to explore and leverage these advancements for their future endeavors.

Mechanical Engineering Students Won Ideathon Punjab 2.0

The students of the Department of Mechanical Engineering at CEC-CGC, Landran, Mohali, demonstrated exceptional innovation at Ideathon Punjab 2.0, hosted by ACIC RISE and sponsored by Startup Punjab on 16/01/2024. Their outstanding project, a Robotics Device for Borewell Rescue Operation, earned them the first position at the event, along with a cash prize of Rs. 30,000/-. This accomplishment not only reflects the dedication and ingenuity of our students but also highlights the Department's commitment to fostering cutting-edge solutions.

Mechanical Engineering Students Won Best Project/Working Model Award

The Mechanical Engineering department students achieved a significant milestone by winning the award for the best Project/Working model at the 9thNational Conference and Exhibition on Emerging and Innovative Trends in Engineering Technology held at GCET, Jammu. The event was organized in technical collaboration with IIT Kharagpur and in association with the World Consortium of Universities. This accolade not only highlights the students' dedication and innovative prowess but also underscores the department's commitment to excellence.

Expert Talk on “Green Hydrogen: Revolutionizing Sustainable Energy Pathways”

On March 6, 2024, Mr. J. P. Kundra, Consultant Engineer on Hydrogen Technologies at Cheema Boilers Limited, delivered an expert talk titled "Green Hydrogen: Revolutionizing Sustainable Energy Pathways." He highlighted the potential of hydrogen as a green fuel in industrial and domestic sectors. The talk educated students about the use of hydrogen fuel cells and their revolutionary impact on future energy consumption. Mr. Kundra's insights provided valuable knowledge on the applications of hydrogen, indicating its promising role in shaping sustainable energy pathways.

Applied Sciences Department Celebrated National Voters Day

The Applied Sciences Department of Chandigarh Engineering College-CGC Landran, Mohali celebrated National Voters Day on 25th January 2024. The event sought to educate students about the importance of voting and inspired them to actively engage in the democratic process. The students got the opportunity to watch a live session where the Honourable Prime Minister of India, Sh. Narendra Modi ji, addressed the young voters of the country. The students were also provided with valuable and detailed information about the Electoral Process, the Power of Vote, and Combating Electoral Misinformation. This day was celebrated to ensure that all eligible individuals are empowered to exercise their right to vote. The initiative spearheaded by the Applied Sciences Department achieved remarkable success, fostering a vibrant atmosphere characterized by passion, excitement, and a strong sense of camaraderie. The event not only informed and inspired young voters but also served as a strong reminder of the influence individuals can have through their participation in the democratic process.

Students watching live session of Hon'ble Prime Minister of India, Sh. Narendra Modi ji in College Auditorium

IT Department organized event on Web Craft

The IT department conducted a Web Craft event on 13 February 2024, featuring two rounds: an MCQ challenge to test theoretical knowledge and a hands-on UI implementation round to showcase practical web development skills. The event aimed to enhance participants' web development expertise through a combination of theoretical and practical challenges, fostering skill development, knowledge enrichment, and collaborative networking. Web Craft delved into key technical aspects of web development, testing participants' knowledge through MCQs on languages, frameworks, and best practices. The UI implementation round evaluated their ability to code responsive, visually appealing interfaces, emphasizing practical skills essential for modern web development.

Expert talk on “Career in AI based Digital Marketing”

The Department of Information Technology organized an expert talk on Career in AI based Digital Marketing on 22nd March, 2024 in Seminar Hall, Block 3. The seminar was conducted by Mr. Mangat Singh Dhiman, COO of Ani Web Designs Group. The seminar aimed to educate attendees about career opportunities in AI-based digital marketing and to empower them with practical knowledge and skills to leverage AI tools like Canva for successful digital marketing campaigns.

IT Department organized “Eminence 2K24”

The Department of Information Technology at Chandigarh Engineering College, Landran, organized Inter-Departmental Technical and Non-Technical activities as part of "Eminence 2K24" on 20th March 2024. The event aimed to provide students with a platform to showcase their talents and skills, re-engage in social activities and foster personal growth and community building. Thirteen events were planned and executed with student coordinators and faculty members ensuring high quality and student interest. These events included Technical activities like Crack it if you can, Tech Hunt, Web Designing, Riddle, Project Display, Ideathon, Technical Quiz, and Graphic Designing, as well as Non-Technical activities like Painting, Pixels, Bottle Flip Quiz, Battlegrounds Clash: BGMI Tournament, and Singing. A cultural event was also organized on the same day. The prize distribution ceremony was held in the auditorium to felicitate participants and winners, with trophies, cash prizes, and certificates awarded by college dignitaries. The event was highly successful, with over 900 entries, showcasing the vibrant talent and spirit within the college community.

A glimpse of winners during Eminence 2K24

A glimpse of activity during Eminence 2K24

Phonenix Club organized technical event " Clap to Code"

The Phonenix Club of CSE department at CEC-CGC organized a technical event "Clap to Code" on Jan 24, 2024. "Clap to Code" was hosted on the well-known platform "HACKERRANK". This event was a great success with the participation of 20 teams and was conducted in two rounds. The first round consisted of technical quiz along with coding questions. The second round consisted of only the coding questions.

Alumni Talk on "Ongoing learning, Creativity, and Teamwork"

The Department of Computer Science & Engineering organized an Alumni Talk on March 19, 2024, with the objective of helping students understand and develop strategies to enhance their technical and interpersonal skills, improve focus and concentration, and cultivate a positive mind-set for personal and academic success. The Alumni Talk was conducted by Ms. Kashika Sharma, a CEC-CGC alumna from the Batch of 2016-2020, currently working as a SAP functional consultant at SAP. The session covered topics such as ongoing learning, creativity, and teamwork across different disciplines. Through this alumni discussion, students received not only valuable insights but also a clear path to success in their upcoming ventures. The focus on ongoing learning and creativity acted as a guiding light, leading them into a vibrant and constantly changing industry.

Seminar on Innovative Trends in Electronics: Exploring research opportunities in India and Abroad

ECE Department in association with TPS (Techcomm Professional Society) and in collaboration with IIC organized Seminar on Innovative Trends in Electronics: Exploring research opportunities in India and Abroad. The seminar was organized on 16thFeburary, 2024 from 11:00a.m. onwards in C.V. Raman Block-1 at CGC Landran. The objective of the seminar was to provide a platform for participants to gain valuable insights, knowledge and inspiration regarding the latest advancement and transformative trends within the field of research.

Workshop on Virtual labs in collaboration with IIT Delhi

The Techcomm Society of Department of Electronics and Communication Engineering CEC-CGC Landran, organized a workshop on Virtual Labs in collaboration with IIT Delhi on 27th March, 2024. During this programme, Mr. Chirag Dey (Sr. Executive Trainer) and Mr Shivam Yadav (Field Engineer) from IIT Delhi provided training on the Virtual Lab Platform. They informed that virtual labs are anytime, anywhere labs that are developed in self-learning modes and facilitate innovative experimentation in the fields of science and engineering. The IIT Delhi team demonstrated the process of conducting different experiments on the virtual labs and showcased how to use different learning tools available on this platform.

FDP on “Free simulators for ECE lab Practices”

A 5-day Faculty Development Program on “Free Simulators for ECE Lab Practices” was organized by Electronics and Communication Engineering Department in association with NITTTR Chandigarh from 11th March 2024 to 15th March 2024. The program provided intensive training in a range of software including SIM 8085, EdSim8051, Tinker cad, PCB designing, Multisim, Digital Lab Simulator, Scilab, Virtual Lab Simulator, and Node-RED. Participants were engaged in hands-on sessions, mastering essential skills in electronic circuit simulation, microcontroller programming, PCB design, and various aspects of digital and analog electronics.

Session on Enterpreneurship opportunities in Antenna Design

Techcomm Professional Society (TPS) in collaboration with Institution’s Innovation Council (IIC), and ECE department of CEC-CGC Landran organized a session on 7thMarch, 2024. This session on entrepreneurship opportunities in antenna design explored the diverse landscape of opportunities for aspiring entrepreneurs in the field. The session covered key aspects such as technological advancements, market trends, and potential applications within the antenna design industry. Participants gained insights into emerging technologies, innovative design approaches, and the growing demand for specialized antennas in various sectors. The discussion also delved into challenges and strategies for navigating the competitive market, fostering collaboration, and leveraging resources for entrepreneurial success in antenna design.

Outstanding Victory for CEC-CGC, Landran Students at IDE Bootcamp

In a remarkable display of talent and innovation, the students from Department of Mechanical Engineering, CEC-CGC, Landran, have secured the prestigious "Best Performing Team" award in the Idea Pitching Session at the Innovation, Design, and Entrepreneurship (IDE) Bootcamp (Phase II). This event, organized by the Ministry of Education's Innovation Cell (MIC) and AICTE, highlights the students' exceptional abilities. The IDE Bootcamp, held from January 29thto February 2nd, 2024, provided a platform for students to showcase their innovative ideas and entrepreneurial skills.

ME Department organized Gate Awareness Session

The Department of Mechanical Engineering organized a Gate Awareness Session on 29th February2024. Mr. Gurvinder Singh from Engineers Career Point was the resource person for this event. The session focused on the GATE exam, a crucial national-level test for engineers and technologists seeking admission to postgraduate programs and PSU employment. Students gained insight into the exam pattern, emphasizing the need for strategic time management and subject understanding. The session also stressed the importance of adhering to application timelines and being well-prepared for exam day for success in the GATE exam.

My Story – "Motivational Session by Successful Alumni"

The Department of Mechanical Engineering, in collaboration with the Institution's Innovation Council (IIC) at Chandigarh Engineering College-CGC Landran, organized a motivational session for students on February 27, 2024. The session featured Er. Rahul Kumar Jha, Tata Consulting Engineer, Mumbai, as the speaker. Er. Jha shared insights on idea generation, implementation, the importance of the right approach, execution methodology, overcoming challenges, and setting target goals. He engaged students through interactive talks, storytelling, and informative presentations, drawing from his industrial experience. The session inspired students to consider entrepreneurship and think about startups, encouraging them to strive for success in their careers.

Expert Talk on "Funding Opportunities for Early-Stage Entrepreneurs"

The Department of Mechanical Engineering, in collaboration with the Institution's Innovation Council (IIC) at Chandigarh Engineering College-CGC Landran, organized an expert talk on funding opportunities for early-stage entrepreneurs on February 23, 2024. The session, aimed at various streams of engineering graduate students, featured Dr. Sonam Sharma, Assistant Professor at CBSA, as the speaker. Dr. Sharma provided insights into funding opportunities, including angel investments and venture capital funds. She discussed the application process, eligibility criteria, common mistakes to avoid, and legal concepts associated with funding. The session aimed to motivate CEC-CGC,Landran students to consider entrepreneurship as a career path and provided valuable information on funding sources for aspiring entrepreneurs.

Expert Talk on “Quality Control”

The Department of Mechanical Engineering hosted an expert talk on quality control by Mr. Raj Kumar, Operations Head at KDDL, Parwanoo, on January 25, 2024. Mr. Kumar demonstrated the latest techniques and innovations in quality control measurement, providing students with valuable insights into precision equipment production units' quality control processes. The session enhanced students' understanding of the practical application of quality control principles in manufacturing, emphasizing the importance of maintaining high standards in product quality.

Two Days Workshop on Problem Solving and Ideation

The Department of Mechanical Engineering conducted a two-day Problem Solving and Ideation Workshop from February 8 to 9, 2024. The workshop focused on brainstorming different ideas and utilizing a brainstorming approach to tackle various challenges. Expert mentors, including Mr. Sudhanshu Sisodia and Mr. Ramandeep, a Design Engineer from P2P Analysis and Solution, Mohali, guided students on skill development and problem-solving methodologies. The workshop emphasized the importance of brainstorming in generating innovative solutions for clearly defined design problems.

Expert Talk on “Industry Ready Graduates Transformation”

The CSE Department of CEC-CGC organized an expert talk on "Industry-Ready Graduates Transformation" for 2nd and 3rd-year students on 09 Feb 2024. The two-hour interactive session was conducted by Ms. Shivani Sharma Singh, Industry, and Corporate Liaison Expert, Head of Government Projects B2B2C at LG Electronics. Aiming to achieve the vision of honorable Prime Minister of India Shri Narendra Modi Ji and the initiative of the Ministry of Education, Government of India, in collaboration with AICTE, a series of seminars are being organized across the country to discuss the transformational changes that have laid the foundation of Viksit Bharat by 2047. In continuation of this series, Chandigarh Engineering College-CGC Landran, Mohali (Punjab), organized a Development Dialogue on 09th February 2024 on “Industry-Ready Graduates Transformation”. Ms. Shivani Sharma Singh, Industry, and Corporate Liaison Expert, Head of Government projects B2B2C, was invited as a guest speaker to this session. Around 400 participants, including students and Faculty, attended the event. Ms. Shivani Sharma highlighted the vision of Viksit Bharat and the idea of addressing What New Graduates Should Look for In a Job. She talked about the importance of incorporating relevant and authentic learning activities and resources, engaging with industry partners and stakeholders, and monitoring and evaluating curriculum alignment and impact. The session included active exchange of ideas between the speaker and students where they interacted on Industry & Graduate Expectations, Hiring Trends 2024, Layoffs 2023, bridging the Gap, Identifying the skills and competencies that are in demand, and incorporating relevant and authentic learning activities and resources. Many logical and conceptual questions were raised by students such as effective strategies for reducing the gap between industry and academia, the key pillars of the vision of Viksit Bharat @2047, and how individuals and organizations can participate in or support the Viksit Bharat@2047 initiative.

Ms. Shivani Sharma Singh being welcomed by Director-Principal CEC-CGC

Ms. Shivani Sharma Singh interacting with the audience

Audience listening to Ms. Shivani Sharma Singh

CEC-CGC student asking her query to Ms. Shivani Sharma Singh

Industrial Visit to Metlonics Industries Private Limited, Kurali

The Department of Applied Sciences organized industrial visit to Metlonics Industries Private Limited, Kurali on 2nd February, 2024 for first year students of B.Tech-Mechanical Engineering. This visit was arranged to provide students with a firsthand understanding of the manufacturing processes involved in railway and defence parts. The aim was to bridge the gap between theoretical technical concepts and practical industrial applications. Mr. Gurdeep Singh and Mr. Rajnish from Meltonics provided the students with a detailed explanation of the manufacturing process for railway and defence parts.

Industrial Visit to Guru Gobind Singh Super Thermal Plant, Ropar

Applied Sciences Department organized industrial visit to Guru Gobind Singh Super Thermal Plant, Ropar for B.Tech 1st Year students on 23rd January, 2024. This visit was arranged to provide students with a firsthand understanding of electricity generation, bridging the gap between technical concepts and industrial applications. Mr. Suminderjit Singh provided a detailed explanation of the entire process of electricity generation, distribution to different areas of Punjab, and the functioning of control panels.

Poster Making Competition on “Power Of Polls”

On 19th January 2024, the Department of Applied Sciences organized an Inter-college "Poster Making Competition" centered on the theme "Power of Polls." The event commenced at 11:00 am in Block 9. The esteemed judging panel included Mr. Satish Kumar, Associate Professor, Department of Applied Sciences, and Ms. Gurpreet Kaur, Assistant Professor, CGC-COE. Additionally, Dr. Harpal Singh, Head of Department, Applied Sciences, graced the occasion to encourage the participants. Our guest, Mr. Gurbaksh Singh from Government Polytechnic College, represented the Mohali Election Commission. The competition witnessed the participation of 25 talented individuals who showcased creativity contributing to a display of thought-provoking interpretations of the electoral process through their posters.

The winners of the competition were as follows:
1st position secured by Sumit - B. Tech ECE, 4th semester
2nd position secured by Aryan Sharma - B. Tech ECE, 4th semester
3rd position by Amandeep Kaur - B. Tech CSE-G, 6th semester
The event, as a whole, was a resounding success which was coordinated by Ms. Namrata Chopra and Dr. Sham Singh.

Poster Making by students

HOD Applied Sciences along with judges and the winners

“Industrial Visit to CSIR-CSIO, Chandigarh”

The Department of Information Technology arranged an industrial training session at CSIR-CSIO in Sector 30 D, Chandigarh, on 28 February 2024. The session, led by Mr. Narinder Singh Jassal and Dr. Neerja Garg, focused on Robotics, Mechatronics and air pressure applications. Mr. Jassal discussed various technologies and equipments, while Dr. Garg shared her journey and emphasized staying updated with technology trends. She also showcased industry-level equipment and technologies, including the Portable Solar Powered Vaccine Cooler, Nano-Fiber Fabrication Facility, and Malaria Parasite Detection Instrument.

Field Visit to Ellocent Labs

The IT department organized an industrial visit to Ellocent Labs in Mohali Sector 75, known for its advancements in various technologies on 27 March 2024. The visit aimed to familiarize students with industrial and application management, emphasizing practices in modern industries and recent technologies. Students learned about the importance of technical and professional skills, interacted with industry experts, and gained knowledge about implementing ideas with recent technologies. Ms. Sundeep Kaur, Director of Ellocent Labs, conducted an informative session on technologies, languages, frameworks, and services offered by the organization globally.

Industrial Visit to Grazitti Interactive Panchkula

The Department of Computer Science & Engineering at Chandigarh Engineering College-CGC Landran organized an industrial visit to Grazitti Interactive, Panchkula, on 25th Jan 2024. The visit began with an Introductory Session where a company representative introduced their organization, followed by a session conducted by a Technical Head. The Technical Head educated students about Quality Analysis, the roles of a full-stack Developer, and Customer Relationship Management. Students gained insight into Grazitti Interactive and its operations, experiencing the environment adapted by the organization. They also acquired knowledge about Quality Analysis and CRM, along with a brief overview of the role of Full Stack Developer.

Group photograph of our students at Grazitti Interactive

Company's expert interacting with our students at Grazitti Interactive

Industrial Visit to Bebo Technologies Pvt. Ltd. Mohali

The Department of Computer Science & Engineering at Chandigarh Engineering College-CGC Landran organized an industrial visit to Bebo Technologies Pvt. Ltd. Mohali, on 30th Jan 2024. The visit began with a tour of the office, including their technical base, recreational zone, gym, daycare, and cafeteria. Firstly, the students were briefed about the company policy, the skills they required, and the work they were supposed to do in the HR session. Secondly, a technical session was conducted in which the students were made aware of the present trends and technology standards of the market, career choices, and the coveted fields of today's world in the technical sector.

Industrial Visit to CSIR – CSIO Chandigarh

The Department of Computer Science & Engineering at Chandigarh Engineering College-CGC Landran organized an industrial visit to CSIR – CSIO, Chandigarh, on 28th Feb 2024. Students underwent a comprehensive exploration of scientific concepts including robotics, mechatronics, etc. Mr. Narinder Singh Jassal, Principal Scientist, and Principal, Indo-Swiss Training Centre, CSIR-CSIO Chandigarh, conducted an informative session about various technologies, robotics, and mechanical equipment. Dr.Neerja Garg, Principal Scientist, Intelligent Machines and Communication Systems (IMCS), shared her inspiring journey, highlighting the challenges she overcame to achieve success. She emphasized the importance of staying updated with technology trends.

Two Industrial visits to Punjab Communication Limited, Mohali

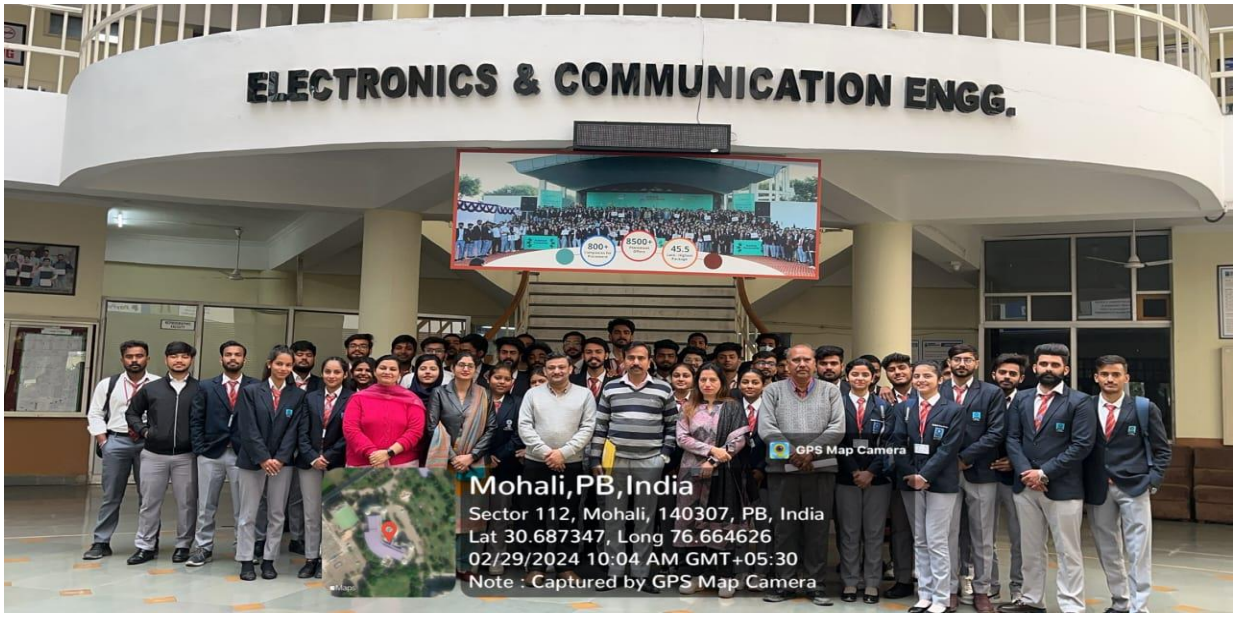
The department of Electronics and Communication Engineering organized two industrial visits to Punjab Communications Limited on 15.02.2024 and 27.02.204 for the students of ECE 4th semester. The visit was organized to provide students a platform to learn about the manufacturing process of various electronics and communication equipment. Puncom, Mohali is India's premier Telecom and IT equipment and solution Provider Company having successfully supplied and implemented a host of state-of-the-art Telecom, Software and integrated turnkey solutions across the country. During the visit, students came to know about Voice/Data Multiplexers, Optical/Transmission Equipment and PLCC.

Industrial visit to CS Soft Solutions Limited, Mohali

Electronics & Communication Engineering Department organized an industrial visit to CS Soft Solutions Pvt. Ltd., Mohali for the students of ECE 6thsemesteron on 27.2.24. CS Soft Solutions Pvt. Ltd provide IT Services like Website Designing, Development, Mobile App Development, Digital Media Marketing, and Lead Generation to Overseas Clients. The visit was planned to give the students information about how the business operates and to give them a chance to develop, organize, and participate in active learning experiences. They gained insightful knowledge about UI design, mobile application, web development, enterprise application, and digital marketing.

Industrial visit to TERAFAC Technologies Pvt. Limited

ECE department organized an industrial visit to TERAFAC Technologies Pvt. Limited, Chandigarh on 29.2.24 for the students of ECE 6th semester. The company is a DPIIT recognized start up with the aim to prepare the youth for Industry 4.0. They provide state-of-the art "Smart Manufacturing and Industry 4.0" Lab setups that serve as a vital learning resource for students, blue-collar workers and community at large, driving innovation, infrastructure development and better placements. Students got guidance for the various new technologies smart manufacturing, industry 4.0, Internet of things (IOT) and digital twin. They got to know about augmented reality (AR) ,Virtual Reality (VR) and Mixed Reality which can enhance any real-world environment by making it interactive.



Industrial visit to NIELIT Ropar

The department of Electronics and Communication Engineering organized an industrial visit to National Institute of Electronics and Information Technology, Ropar on 07.03.2024 for the students of ECE 4th & 6th semester. The students learnt about the new emerging technology AIOT = AI+IOT, made from the duo of AI and IOT. The students visited the highly advanced AI lab, communications lab and electronics labs. The students were encouraged to work on projects and solve real life problems.

Industrial visit to Pushpa Gujral Science City Kapurthala

The Electronics and Communication Engineering Department organized an enriching educational trip to Pushpa Gujral Science City Kapurthala. Pushpa Gujral Science City in collaboration with IK Gujral Punjab Technical University organized 'Inno-Tech' contest on 18th &19th March, 2024. This event invited participants to showcase their project work through an engaging and informative display. It fostered creativity, communication and knowledge sharing among participants.

This outing provided an exceptional opportunity for our students to delve into the realms of science and technology. One of the highlights of this trip was the Robotics Competition, where our students showcased their engineering skills and creativity. This competition not only encouraged innovation but also fostered teamwork and problem-solving abilities among the participants. Moreover, the students had the privilege of exploring an array of captivating scientific models. From the intricate workings of rockets and satellites to the intriguing principles of magnetism and electricity ignited their curiosity. They had the chance to witness these complex concepts come to life through interactive displays and demonstrations, making their learning experience both engaging and memorable.

Faculty Achievements

- **Dr. Inderjot Kaur**, Associate Professor, Applied Sciences Department received Award of Appreciation on International Women's Day 2024 for serving as a panellist for discussion on "Inspire Inclusion".

- **Ms. Nidhi Chahal, Ms. Puja Sharma, Mr. Ashutosh Kumar Sinha, Mr. Aditya Raj Singh Jasrotia, Ms. Sakshi Sharma** got their patent granted on 15th March,2024. The title of the patent is System for Monitoring Structural Health of Building.

INTELLECTUAL PROPERTY INDIA

क्रम सं/SL No :011205094

पेटेंट कार्यालय,भारत सरकार | The Patent Office, Government Of India
पेटेंट प्रमाण पत्र | Patent Certificate
(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	527021
आवेदन सं. / Application No.	:	201711004802
फाइल करने की तारीख / Date of Filing	:	10/02/2017
पेटेंटी / Patentee	:	chandigarh group of colleges (CGC)
आविष्कारकों का नाम /Name of Inventor(s)	:	1.Ms. Nidhi Chahal 2.MS. PUJA SHARMA 3.MR. ASHUTOSH KUMAR SINHA 4.MR. ADITYA RAJ SINGH JASROTIA 5.Ms. Sakshi Sharma

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *"SYSTEM FOR MONITORING STRUCTURAL HEALTH OF BUILDING"* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख फरवरी 2017 के दसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *"SYSTEM FOR MONITORING STRUCTURAL HEALTH OF BUILDING"* as disclosed in the above mentioned application for the term of 20 years from the 10th day of February 2017 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख : 15/03/2024
Date of Grant :

पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, फरवरी 2019 के दसवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।
Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 10th day of February 2019 and on the same

Students Achievements

- **Mohak Anand** of ECE got First position with cash prize 6000/- in the event "Clash Royale" organized by Indian Institute of Management(IIM),Visakhapatnam.

- Mohak Anand of ECE also got 1st position with cash prize 5000/- in event "Clash Royale" organized by IIT Indore.

- ECE Students **Avinash Kumar, Nicky Kumari and Vishal Kumar** got 1st prize in 'Inno-Tech' contest on 18th and 19th March, 2024 organized by Pushpa Gujral Science City in collaboration with IK Gujral Punjab Technical University.

Students Achievements

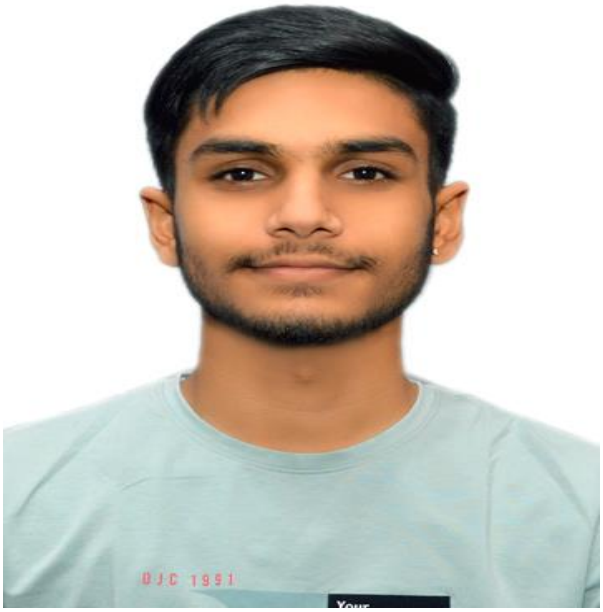
- Students of ECE **Lokesh and Kirat Mehta** participated enthusiastically in various sports events and won gold medal and silver medal in Annual sports Athletic meet held at CGC Landran from 13.2.24-17.2.24

- Kirat Mehta, ECE student rewarded with best athlete Men in sports meet organized by IKGPTU from 13.3.24-15.3.24.

- ECE students got placed in many companies like **UNO Minda Limited, Pavna Industries Ltd (Pavna Group), Ghaziabad Precision Products Pvt.Ltd, American Chase LLP and Tech Mahindra Ltd.**with highest package of **5.21 LPA.**

Students Section

Student Editors



Arpan Sood

B.Tech AI&DS –A1

Darshpreet Kaur

B.Tech CSE-B2

Mohammad Sahil

B.Tech AI&DS –A2

Charu

B.Tech CSE-B2

Exploring the Dark Web and the Idea of Anonymity

In the vast expanse of the internet lurks a hidden area known as the Dark Web, an underground network that works beyond the ordinary reach of search engines. The Dark Web, shrouded in mystery and fascination, has come to represent secrecy, anonymity, and, in many cases,an unlawful activity. However, what exactly is the Dark Web, and how does its shroud of anonymity work?

Disclosure of THE DARK WEB:
The Dark Web refers to a subset of the internet that exists on specialized networks and requires unique software, setups, or permits to access. Unlike the surface web, which is easily searchable and searched by search engines, the Dark Web runs on encrypted networks like Tor (The Onion Router), I2P (Invisible Internet Project), and Freenet. These networks transit internet traffic over many nodes, effectively disguising the user's identity and location.

Insights on ANONYMITY:
The Dark Web's attractiveness stems mostly from its promise of anonymity. Users feel they may move freely, talk, and perform transactions without fear of being tracked or identified. While these networks provide some anonymity, it is important to note that it is not total. Anonymity can be jeopardized by a variety of circumstances, including human error, technological flaws, and coordinated law enforcement actions.

Seclusion V/S Security:

The Dark Web is well-known for providing a sanctuary for criminal activity such as the sale of drugs, firearms, stolen data, and illegal services. While such actions do occur, it is crucial to note that not all Dark Web users engage in unlawful behaviour. For many, the Dark Web provides a safe haven for free expression, anonymity, and protection from surveillance, particularly under authoritarian countries.

Insecurity and Challenges:
Despite its attractiveness, accessing the Dark Web comes with significant risks. Malicious software, phishing scams, and fraudulent schemes exist, aimed at naïve users. Furthermore, law enforcement agencies carefully monitor the Dark Web to locate and apprehend persons engaging in illicit activities. Recent crackdowns on popular Dark Web marketplaces and forums serve as a harsh reminder that anonymity does not imply immunity.

Closure:
The Dark Web continues to captivate as an enigmatic area, with equal parts opportunity and problems. Its attraction of anonymity has drawn a wide range of users, including activists, journalists, cybercriminals, and government operatives. However, it is critical to enter the Dark Web with caution, being aware of the inherent risks associated. While anonymity may provide protection from prying eyes, it is not immune to investigation. Finally, the pursuit of anonymity on the Dark Web demonstrates the delicate balance of privacy and security in the digital realm.

ISHNOOR SINGH
ECE-4th Sem
Roll No: 2237194

Building The Future: Exploring the World of Robotics

In the vast expanse of technological advancement, few realms hold as much promise and fascination as robotics. With every passing day, the boundaries of what robots can achieve are expanding, propelling us into a future where human-robot collaboration isn't just a concept, but a tangible reality. From factory floors to operating rooms, from outer space to our own homes, robots are increasingly integrated into our lives, reshaping industries and revolutionizing the way we live, work, and interact with the world.

The Evolution of Robotics:

The story of robotics is one of continuous evolution, stretching back through the annals of history to ancient civilizations and their mechanical wonders. However, it wasn't until the 20th century that robotics truly emerged as a distinct field of study and innovation. Visionaries like George Devol and Joseph Engelberger pioneered the development of industrial robots in the 1960s, laying the groundwork for the modern robotics revolution.

The Rise of Collaborative Robots:

A defining trend in contemporary robotics is the rise of collaborative robots, or cobots. These robots, unlike their traditional counterparts, are designed to work alongside humans in shared workspaces. Equipped with advanced sensors and artificial intelligence, cobots can adapt to dynamic environments, performing tasks ranging from assembly and packaging to quality control and logistics. Their ability to enhance productivity, flexibility, and safety has made them indispensable in industries worldwide.

Robotics in Exploration and Discovery:

Beyond terrestrial boundaries, robots are spearheading exploration and discovery in realms both near and far. Robotic rovers like NASA's Curiosity and Perseverance are unlocking the secrets of Mars, collecting data and paving the way for future human missions. Similarly, underwater robots, or remotely operated vehicles (ROVs), are delving into the depths of the ocean, studying marine life and mapping underwater ecosystems. These robotic explorers are expanding our understanding of the universe and pushing the boundaries of human knowledge.

The Future of Robotics:

As we stand on the cusp of a new era of robotics, the horizon is ablaze with possibilities. From autonomous vehicles and delivery drones to personal assistant robots and smart homes, the future holds immense potential for robotic innovation to enrich our lives in ways we've only begun to fathom. However, with these opportunities come ethical and societal considerations.

Conclusion:

Robotics represents a thrilling frontier of technological progress, with the power to shape the destiny of humanity in profound and transformative ways. By embracing the world of robotics and harnessing its potential, we can build a future where humans and robots coexist harmoniously, working together to create a better, more connected world for generations to come.

MEHAK SACHDEVA
BTECH ECE B2
Roll No: 2237225

Navigating India's Growing Game Development Industry: Engines, Courses, and Career Paths

Introduction:

India's game development industry is experiencing rapid growth, fueled by technological advancements, increasing demand for interactive entertainment, and a burgeoning community of talented developers. As the country continues to assert its presence on the global stage in various technological sectors, the gaming industry is also gaining recognition for its innovation and creativity. In this article, we delve into the landscape of game development in India, exploring the engines driving the industry, available courses, and pathways to building a successful career in game development.

Engines Powering Game Development:

Game engines serve as the backbone of game development, providing developers with tools and frameworks to create immersive and engaging experiences. In India, several game engines are widely used by developers, catering to different preferences and project requirements.

1. Unity: Unity has emerged as one of the most popular game engines globally, known for its versatility and user-friendly interface. In India, many game development studios utilize Unity for its robust features, extensive asset store, and cross-platform capabilities, making it ideal for developing games for various platforms, including mobile, PC, and consoles.

2. Unreal Engine: Developed by Epic Games, Unreal Engine is renowned for its stunning graphics and powerful capabilities in creating high-fidelity experiences. In India, Unreal Engine is favored by developers seeking to push the boundaries of visual quality and realism, particularly in the realm of AAA games and immersive simulations.

3. Godot Engine: An open-source game engine, Godot has gained traction among indie developers and small studios in India due to its accessibility, community support, and cost-effectiveness. With its intuitive node-based approach to game development and support for 2D and 3D projects, Godot offers a compelling alternative for developers looking to create innovative games on a budget.

Courses and Education:

Aspiring game developers in India have access to a variety of courses and educational programs tailored to their interests and skill levels. From formal university degrees to online courses and workshops, there are numerous avenues for acquiring the knowledge and skills necessary to excel in game development.

1. Bachelor's Degrees: Several Indian universities offer bachelor's degrees in computer science, game design, and related fields, providing students with a solid foundation in programming, game theory, and design principles. Institutions such as the National Institute of Design (NID) and the Indian Institute of Technology (IIT) offer specialized programs in game development and design.

2. Online Learning Platforms: Platforms like Coursera, Udemy, and Udacity offer a plethora of online courses and tutorials covering various aspects of game development, including programming languages, game engines, art and animation, and game design theory. These courses provide flexibility and convenience for individuals looking to learn at their own pace.

3. Game Development Bootcamps: Accelerated programs and bootcamps focused specifically on game development are also gaining popularity in India. These intensive training programs offer hands-on experience and mentorship from industry professionals, equipping participants with the skills and portfolio necessary to jumpstart their careers in game development.

Building a Career in Game Development:

Breaking into the game development industry in India requires dedication, perseverance, and a willingness to continually learn and adapt to new technologies and trends. Here are some key steps to building a successful career in game development:

1. Specialize: Identify your areas of interest within game development, whether it's programming, art and animation, game design, or sound design, and focus on honing your skills in those areas.

2. Build a Portfolio: Create a portfolio showcasing your projects, including game prototypes, artwork, code samples, and design documents. A strong portfolio is essential for demonstrating your capabilities to potential employers or clients.

3. Network: Attend industry events, game jams, and meetups to connect with other developers, industry professionals, and potential collaborators. Networking can open doors to job opportunities, mentorship, and valuable insights into the industry.

4. Stay Updated: Keep abreast of the latest trends, technologies, and tools in game development through online forums, blogs, and industry publications. Continuous learning and adaptation are crucial in a fast-paced and ever-evolving industry.

Conclusion:

The game development industry in India is on a trajectory of growth and innovation, offering exciting opportunities for aspiring developers to make their mark on the global stage. With the availability of powerful game engines, diverse educational resources, and a supportive community, aspiring game developers have the tools and support they need to pursue their passion and build rewarding careers in game development. By leveraging their creativity, skills, and determination, Indian developers can contribute to the vibrant and dynamic landscape of interactive entertainment, shaping the future of gaming for years to come.

RUPESH KUMAR
BTECH CSE (F1)
Roll No: 2236977

Unlocking the Potential of Artificial Intelligence: Revolutionizing Industries and Shaping the Future

In the realm of technological advancement, few innovations have captured the imagination and potential for transformative change as much as Artificial Intelligence (AI). Defined as the simulation of human intelligence processes by machines, AI has emerged as a powerful tool reshaping industries, revolutionizing workflows, and challenging traditional paradigms across various domains.

The Evolution of Artificial Intelligence: From Concept to Reality

While the concept of AI dates back to ancient times, it wasn't until the mid-20th century that significant progress was made in its development. The term "artificial intelligence" was coined by John McCarthy in 1956, marking the beginning of a journey that would lead to groundbreaking achievements in machine learning, natural language processing, computer vision, robotics, and more.

Early AI systems were limited in scope and capability, but with the advent of computational power and the accumulation of vast amounts of data, AI algorithms began to exhibit increasingly sophisticated behaviors. From rule-based expert systems to neural networks and deep learning models, the evolution of AI has been marked by exponential growth in complexity and capability.

The Impact of AI Across Industries

One of the most significant impacts of AI is its ability to optimize processes, improve efficiency, and drive innovation across various industries. In healthcare, AI-powered diagnostic tools are revolutionizing disease detection and treatment planning, while in finance, algorithms are being used to analyze market trends and manage investment portfolios with unprecedented accuracy.

In manufacturing, AI-driven automation is streamlining production lines and enhancing quality control, while in transportation, self-driving vehicles are poised to revolutionize the way we travel and commute. From customer service chatbots to personalized recommendation systems in e-commerce, AI is reshaping the way businesses interact with consumers and deliver value.

Challenges and Opportunities

Despite its promise, AI also presents a unique set of challenges and ethical considerations. Concerns about data privacy, algorithmic bias, and the potential for job displacement have sparked debates about the responsible development and deployment of AI technologies. As AI continues to permeate every aspect of our lives, addressing these challenges will be crucial in harnessing its full potential for societal benefit.

Moreover, AI offers immense opportunities for innovation and economic growth. As organizations invest in AI research and development, new avenues for collaboration and entrepreneurship are emerging, paving the way for a new era of technological advancement and prosperity.

The Future of AI: Towards Human-Centric Intelligence

Looking ahead, the future of AI promises even greater advancements, from AI systems that can reason and understand context to machines that can exhibit creativity and empathy. The quest for Artificial General Intelligence (AGI), a system capable of performing any intellectual task that a human can do, remains an elusive yet tantalizing goal, driving research and exploration in the field.

Ultimately, the true potential of AI lies not just in its ability to mimic human intelligence, but in its capacity to augment and enhance human capabilities. By embracing a human-centric approach to AI development, we can unlock its full potential as a force for positive change, shaping a future where humans and machines collaborate synergistically to tackle the most pressing challenges facing our world.

In conclusion, Artificial Intelligence represents a paradigm shift in our understanding of technology and its potential to transform society. As we continue to explore the possibilities of AI, it is imperative that we approach its development and deployment with careful consideration and foresight, ensuring that it remains a tool for progress and prosperity for all.

SHAH HUSSAIN
B.Tech. CSE
Roll No: 2237008

The Flipped Classroom

In our schools, students have grown to the traditional methods of instruction where the teachers stand in front of the class lecturing the same thing to all the students present. Then, just at the end of the class, students are given homework to reinforce the learned concepts at home where they get little or no added support. As a result of this way of teaching, students are just “passive” listeners on the receiving end of a one-way communication process that encourages little critical thinking. two chemistry teachers, Jonathan Bergman and Aaron Sams, who inverted the traditional teaching methods by delivering lectures online as homework and moving activities into the classroom. Students engage with content independently before class, allowing for more interactive, collaborative, and personalized learning experiences during face-to-face sessions. By flipping thier lessons they were able to spend class time working directly with students on more engaging activities giving them support and hands-on instructions. The flipped classroom embodies a transformative shift in education, empowering both students and teachers to maximize learning potential.

Priyesh Kumar
Roll no: 2338022
B.Tech (AI&DS)

Unspoken Flames

In the depths of despair,
When all falls apart,
A sense of incompleteness,

A heavy heart.

Disappointed from every side, even myself,

Silent and burdened, unable to seek help.

Within me a fire burns,

Fierce and bright,

Yearning for release,

To soar in flight.

Yet trapped it remains,

Unable to flee,

OH, the agony of this fiery flee….

VIDHI GUPTA
B.TECH CSE G2 Sem:4
Roll No: 2237073

Healing Through Art: How Drawing and Painting Can Help Feel Better

In the past few years, more people are talking about how we feel inside. This includes our mental health, which is really important. Art has become a big part of this conversation. It turns out that drawing and painting can help us feel better. Let's talk about how art can be like therapy and help us heal.

Art therapy is a way of talking about our feelings without using words. Instead of just talking about how we feel, we can use colors, shapes, and textures to show our emotions. This can be especially helpful when we find it hard to say what's bothering us.

One of the best things about art therapy is that it helps us feel more in control. When we're making art, we get to decide what goes on the paper or canvas. This can be really empowering, especially when we're dealing with tough emotions.

Art therapy is for everyone, no matter who you are or where you come from. It doesn't matter if you're young or old, rich or poor. Anyone can benefit from making art, whether it's painting, sculpting, or drawing.

Making art can also help us feel better about ourselves. It boosts our confidence and helps us deal with tough situations. By expressing ourselves creatively, we learn more about who we are and what matters to us.

Another cool thing about art therapy is that it helps us understand each other better. When we share our art with others, we learn to see things from their perspective. This builds empathy and makes us feel more connected to each other.

In the end, art therapy is a powerful way to heal and feel better. By getting creative, we can express ourselves, boost our confidence, and connect with others. So let's keep talking about our feelings and using art to help us on our journey to feeling happier and healthier.

Parshant Kumar
Roll No:2338020
B.Tech AI&DS (A2)

A love that knows no earthly bound

In the depths of your gaze, I find my bliss,
Lost in its allure, it feels like love's sweet kiss.
Each glance, a spark, igniting my heart's flame,
In your eyes, it feels like I'm love's sweet game.

Our romance, a loop, endlessly intertwined,
In your eyes, forever, our love defined.

In twilight's glow, our love does dance,
Two hearts entwined in sweet romance.
Beneath the moon's enchanting light,
We find our haven, pure and bright.

With every whisper of the breeze,
Our souls unite with gentle ease.
In every touch, a silent vow,
To cherish this love here and now.

Through valleys deep and mountains high,
Our love shall soar, forever nigh.
In every beat of time's sweet chime,
Our love resounds, an endless rhyme.

So let us dance in passion's trance,
Embraced by love's enduring stance.
For in each other, we have found,
A love that knows no earthly bound.

MANAV SEHGAL
B.Tech AI&DS
Roll No: 2338009

Sinful love

I looked up in the sky,

Saw an eagle flying by.

Seeing him carry his prey,

turned my thoughts grey.

Thought about death for a while,

had the eagle killed with a smile?

were his thoughts really so vile?

why did he act so hostile?

Then I saw him feed his children.

Oh! were his deeds actually golden?

I asked the eagle what's true?

"Tell me thou! Love's sin or virtue?"

Eagle replied, "Its a blunder.

What's love isn't yours to wonder.

It's just something to believe,

Then the true meaning you'll perceive."

GOKUL SAIKRISHNA
B.Tech AI&DS

Light

In darkness do I see, thy light,

Telling me, a flicker, to fight.

I see and behold my sight,

waiting to uphold my might.

I wait and wait as a kite,

Flying in order to reach thy light.

All I try is to win my fight.

Gather to see my life, my sight.

Waiting to gather some sleep at night,

And wonder if all I want is right.

my life is changing from black to white,

Now in darkness do I see thy light

GOKUL SAIKRISHNA
B.Tech AI&DS

Poem

Somewhere along with the passage of time

Maybe I have lost some details

But memory is somewhat sublime

It never fails to recall those fairytales

Once I asked myself about the fairytales

I speak of, are maybe just nightmares in disguise

Because of some reason I cannot remember them after sunrise

They fill me with an emptiness felt at the bottom of an ocean

Where nothing seems to be moving but feels like everything is in motion

AKSHAT RAHEJA
B.TECH AI&DS A1
Roll No: 2337979

Incomplete Happiness

It's been 6 years since I lost my mother. I miss her every day, sometimes crying. But the day I cried the most was when my 10th-grade result came out.

It wasn't because my result wasn't good; in fact, it was much better than people expected. Everyone was overjoyed, and I was too. I was celebrating, jumping, and dancing around.

Suddenly, the joy felt incomplete. A question consumed my mind, and all my joy vanished. The celebratory shouts seemed muted. Tears welled up in my eyes, but I held them back, not wanting anyone to see.

The question that stole my happiness was: "how happy would my mother be seeing the result?" I had worked so hard in my 10th grade, especially in the last months, but no one had acknowledged my hard work. My only wish was to share my achievement, my happiness, my hard work with Mom, not only this I have lot to tell my mother but sadly I can't. And here I ended up crying.

It's often these small things that make me cry the most. They remind me of my mother, and eventually, I end up in tears.I believe my mother is all around me, like the wind, but I cannot touch her.

NAVNEET KUMAR
B.TECH (IT - B)
Roll no - 2337441

Embrace the AI Magic: Your College Success Wizard

Hey there, college teens! Ever felt like you needed a personal wizard to ace your studies? Well, meet AI – your not-so-secret secret weapon for college success!

- **Tailored for You**

Think of AI like your study BFF. It knows your style, strengths, and weaknesses better than your roommate does! It creates a customized study plan just for you, making learning way more fun and effective.

- **Access All Areas**

No more drowning in a sea of random study materials! AI picks out the juiciest bits for you based on what you need. It's like having a recommendation genie that always knows what you're looking for.

- **Study Sidekick 24/7**

Late-night study sesh? No problem! AI is there, ready to explain those tricky concepts or help with that assignment. It's like having a study buddy who never sleeps (or complains).

- **Time Boss Extraordinaire**

College life = crazy schedules. But fear not! AI helps you wrangle those deadlines and organize your life. It's like having a personal assistant who's really good at nagging you to stay on track.

- **Future-Proofing Your Career**

Ever wondered what skills you'll need for the future job market? AI gives you a head start with cool skills like data analysis and problem-solving. Think of it as your tech crystal ball.

- **Sparking Creativity, Not Short Circuits**

AI sparks creative lightbulb moments! It's like having a creative brainstorming partner who's really good at suggesting weird (but genius) ideas. Embrace the AI weirdness; it might just lead to something brilliant!

- **The Responsible Sidekick**

Oh, and remember – with great power comes great responsibility! AI is awesome, but it's essential to use it wisely and understand its ethical side. It's like having a wise old mentor teaching you the ropes.

In a nutshell, AI isn't just a buzzword; it's your ticket to acing college and preparing for the future. So, embrace the AI magic – it's here to make your college journey a whole lot smoother and maybe even a bit more hilarious!

MAYANK AGGARWAL
B-TECH CSE (C-1) 2nd Sem
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Youth as an Asset for Nation

Youth is a great asset in building any nation. They are indeed the lifeline of a country as they are very energetic and enthusiastic. They have the ability to learn and strength to achieve their goals. Youth can bring social reforms and improvement in future.

The development of any country requires active participation from the youth. With the proper guidance and the help from the society and government they can achieve their potential.

Government must take steps to redress the issues of youth, like, unemployment, poor education, etc. Equal opportunities must be provided to all irrespective of caste, gender, race, religion, etc. These issues eat up the actual talent of the country. We must ensure that every youth has the chance to prove themselves worthy.

India has a vast youth population with 50% of total population between the age group of 15 to 35. Indian youth are credited to be among the most dedicated, capable and intelligent doers.

India's recent economic performance, which was followed as a result of liberal economic policies, has turned several eyes across the globe. There has been significant progress in the fields of poverty eradication, population growth and literacy levels. Today India has world's largest economy and is anticipated as a superpower soon.

Youths are the future of country their energy, strength, enthusiasm, thoughts and ideas must be guided properly to help a nation prosper and flourish.

ANUSHKA DATTA
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The Impact of AI on Students' Lives

Artificial intelligence (AI) is changing how we learn, especially for students like us. You know how sometimes it feels like teachers don't understand what we need? Well, AI is like having a super-smart tutor who knows exactly how we learn best. It makes learning more fun and helps us understand things better by giving us lessons tailored to what we need.

AI is also helping us with tests. Instead of everyone getting the same questions, AI tests change depending on how we're doing. If we're doing well, it gives us harder questions. If we need more help, it gives us easier ones. This way, we're always learning at just the right level for us.

For students who might have trouble learning in traditional ways, like those with disabilities, AI is a game-changer. It gives them tools like speech recognition and reading help, so they can learn just like everyone else. And if we're learning a new language, AI can help with translations, making it easier for everyone to understand.

Our teachers are getting help from AI too. They have virtual tutors that can answer our questions and give us extra help when we need it. This means our teachers can spend more time helping us one-on-one, which is awesome.

But there are some things we need to think about when it comes to using AI in school. We have to make sure our privacy is protected, and that AI treats everyone fairly. That means making sure it doesn't accidentally favor some students over others. If we use AI the right way, though, it can help all of us learn better and have more fun doing it.

ANUBHAV
BTECH CSE B

Veganism: A Simple Guide to a Compassionate Lifestyle

Veganism is a way of living where people choose not to eat or use anything that comes from animals. This means no meat, dairy products (like milk, cheese, and yogurt), eggs, or honey. But it's not just about food; it's a belief system that values kindness to animals and the environment. One big reason to choose veganism is to help animals. When we choose not to eat meat or use animal products, we're saying no to the industries that often treat animals poorly. By not supporting these industries, we're standing up for the rights and well-being of animals.

Another reason is for our health. Studies show that eating lots of fruits, vegetables, grains, nuts, and seeds—what vegans eat—can lower the risk of diseases like heart problems, diabetes, and some cancers. Veganism also helps the planet. The meat and dairy industries use a lot of land, water, and energy. They also produce a ton of greenhouse gases, which contribute to climate change. By eating plant-based foods, vegans use fewer resources and create less pollution.

But what do vegans eat? Well, there's a huge variety of tasty vegan foods! You can enjoy burgers, pizzas, ice creams, and more all made from plants. There are plant-based versions of almost everything, and they're getting better and tastier all the time. In the end, veganism is about making choices that are good for animals, our health, and the Earth. It's not about being perfect, it's about doing what we can to make a positive difference in the world. Whether you're already vegan, thinking about trying it, or just curious, it's worth exploring how this simple lifestyle change can have a big impact.

ATUL SINGH RAJPUT

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